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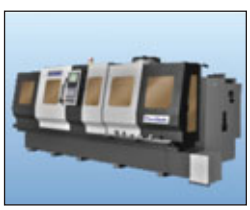

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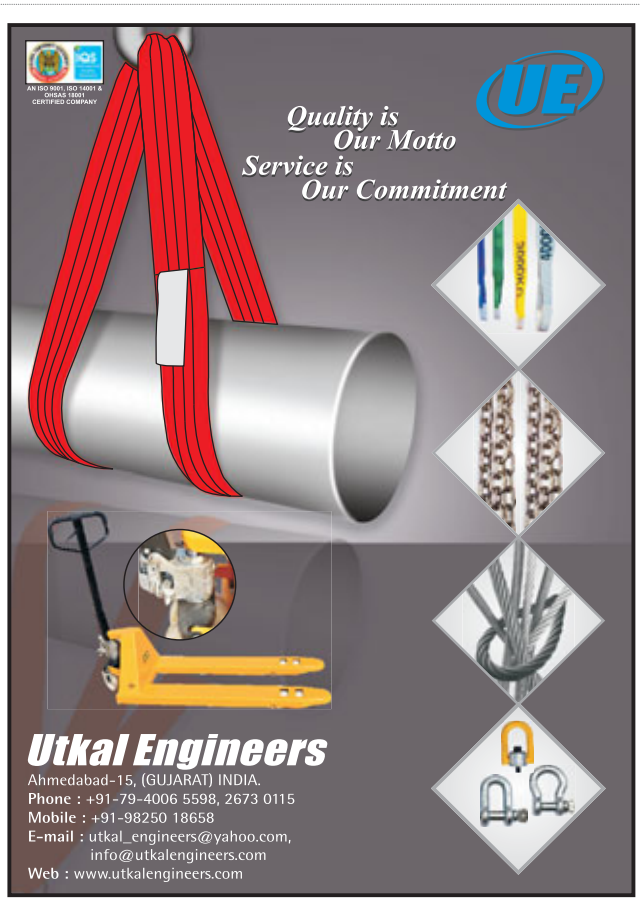

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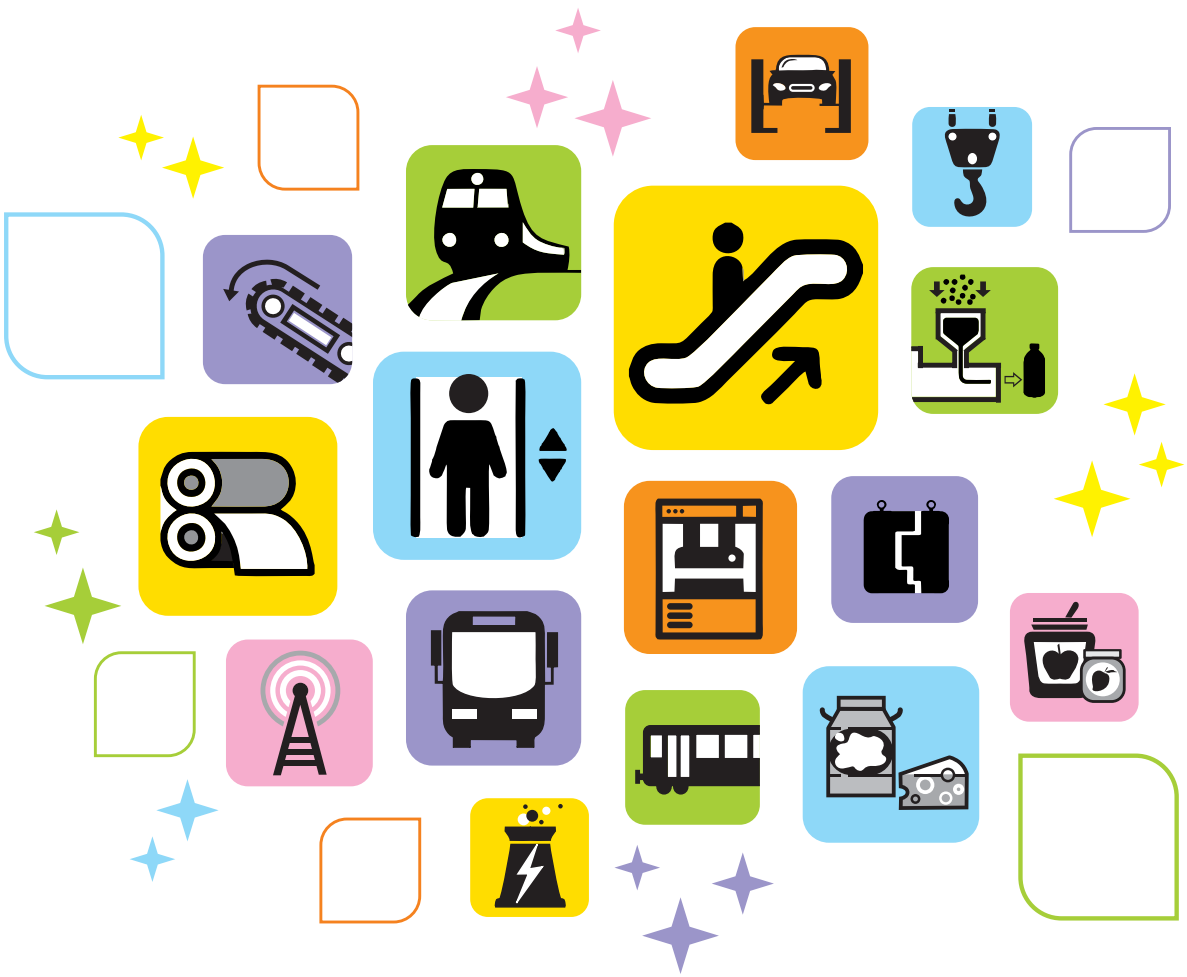

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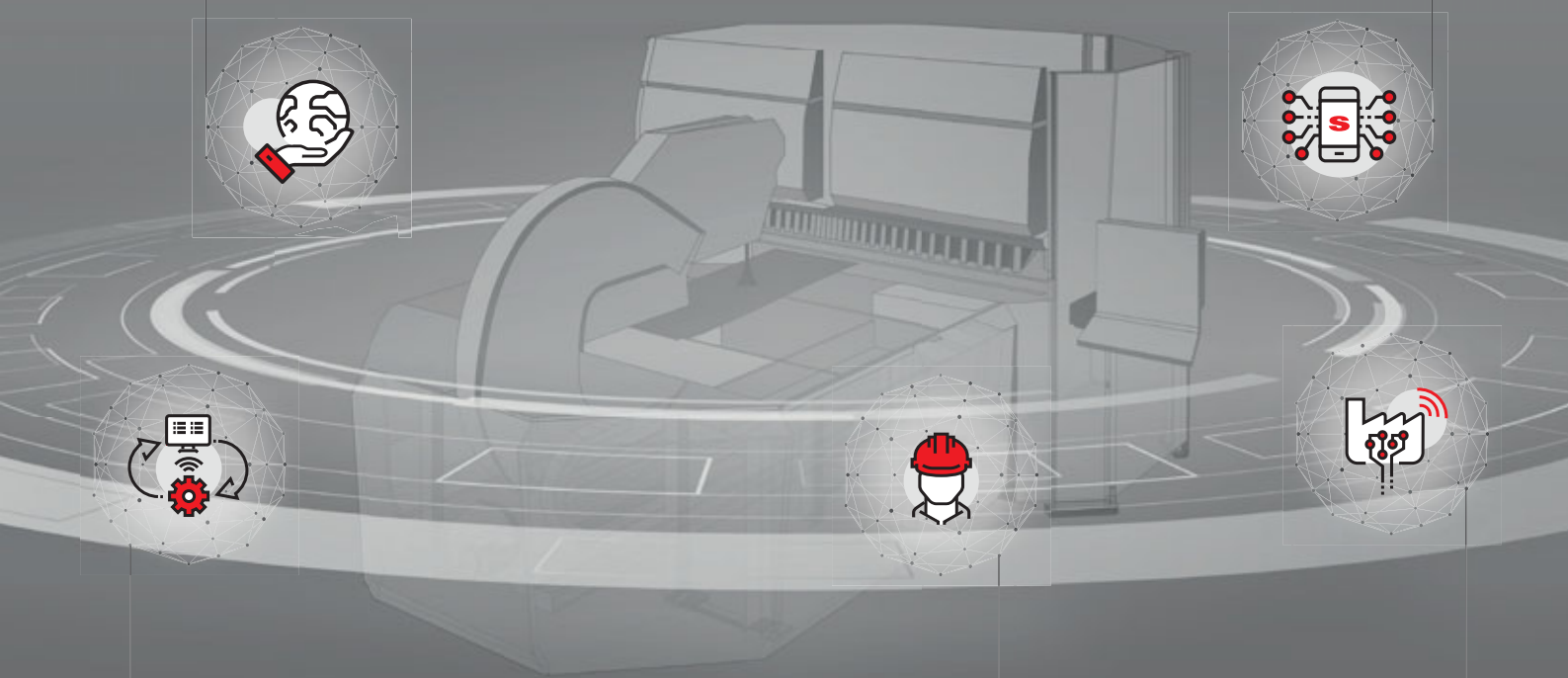

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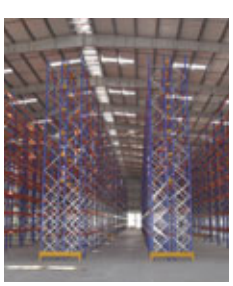

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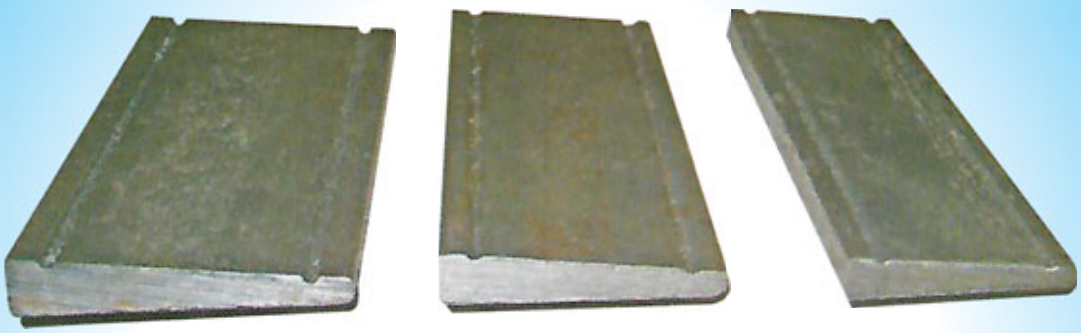

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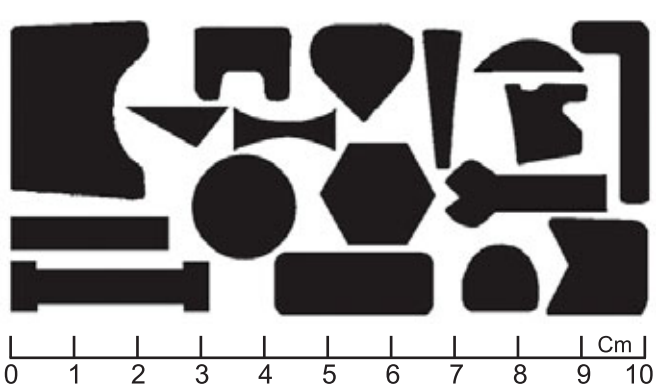

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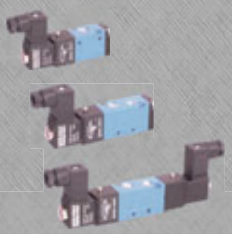

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EDITOR'S NOTE

Be competitive, stay relevant

The manufacturing industry has traditionally been a driver of growth for the Indian economy. With the launch of government's flagship 'Make in India' initiative, Indian manufacturing is on the cusp of becoming a hotbed of innovation with global giants such as, GE, Samsung, Siemens, HTC, Toshiba, Boeing, etc expanding their manufacturing footprint in the last couple of years. To stay competitive and remain an attractive hub for foreign investments in the manufacturing sector, business leaders must embrace forward thinking strategies.

While earlier manufacturing was mostly about the use of machinery and labour, manufacturing is more intelligent today. For India to take the manufacturing industry to a next level, companies will have to adopt strategies, wherein they can improve efficiency and productivity through sustained focus on advanced technology.

As per a report by the Tata Strategic Management Group on the readiness of Indian manufacturing, four technologies - additive manufacturing, advanced robotics, the Industrial Internet of Things and augmented reality - will be particularly important going forward. It is, therefore, imperative for Indian manufacturers to embrace and adapt these technologies.

While novel technologies will add a new dimension of growth to Indian manufacturing, changes will also be needed at government level for a comprehensive effect. Government will have to frame its policies keeping in mind the changing industrial scenario. The Government's proposal in the interim budget to set up a new centre for advanced artificial intelligence (AI) can be considered a futuristic scheme. Side by side, regulatory roadblocks like land & labour laws must be updated while investing in sufficient infrastructure for transport, communication and energy.

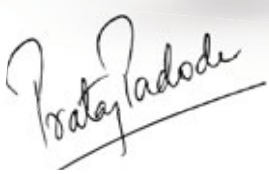
The government has set an ambitious target of $ 1 trillion for the Indian manufacturing sector by 2025 – up from $ 360 billion in 2017-18 (ie, 16.8 per cent of the GDP). To achieve this target, GDP will have to grow at around 11.7 per cent and manufacturing sector at a whopping 14.6 per cent.

To grow at such a high-rate YoY, Indian companies will have to be a very integral part of the global supply chain, and for this, Indian manufacturers should adopt a global outlook (instead of just focusing on the domestic market). Role of the country's small and medium enterprise (SME) sector in achieving the $ 1 trillion target also assumes significance. SMEs will have to improve the product quality and enhance technology usage to increase their share in India's export basket from present 40 per cent.

To sum up, Indian manufacturers (big or small) have to be globally competitive to be relevant locally.

The 47th Annual Edition's Cover Story focuses on some of the winning strategies to be adopted by Indian manufacturers to overcome challenges and emerge victorious. Over 20 experts explain what makes India a potential manufacturing and R&D hub for global engineering companies. Besides, the Mega Issue features over 430 products in more than 30 industrial product categories. Enjoy reading.

Do write in with your suggestions at *feedback@IPFonline.com*



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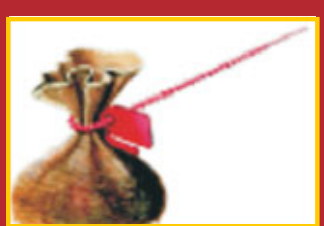
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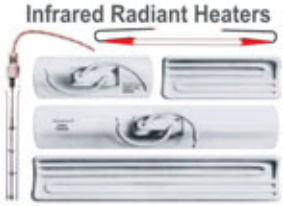

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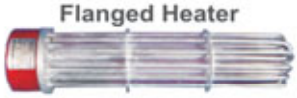

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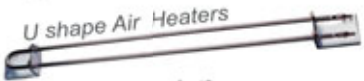

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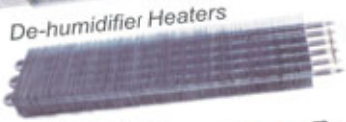

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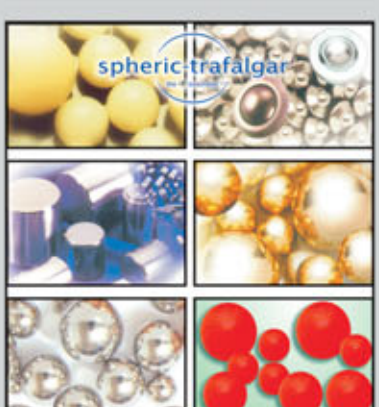

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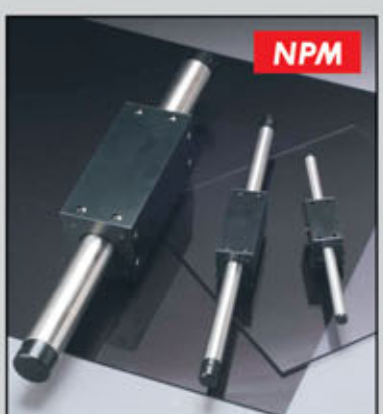

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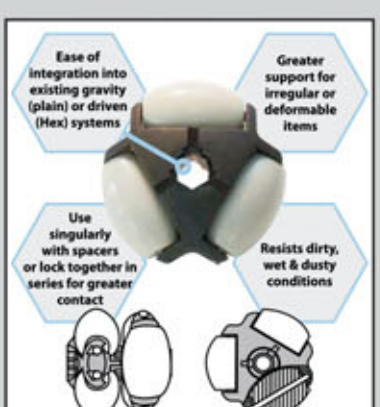

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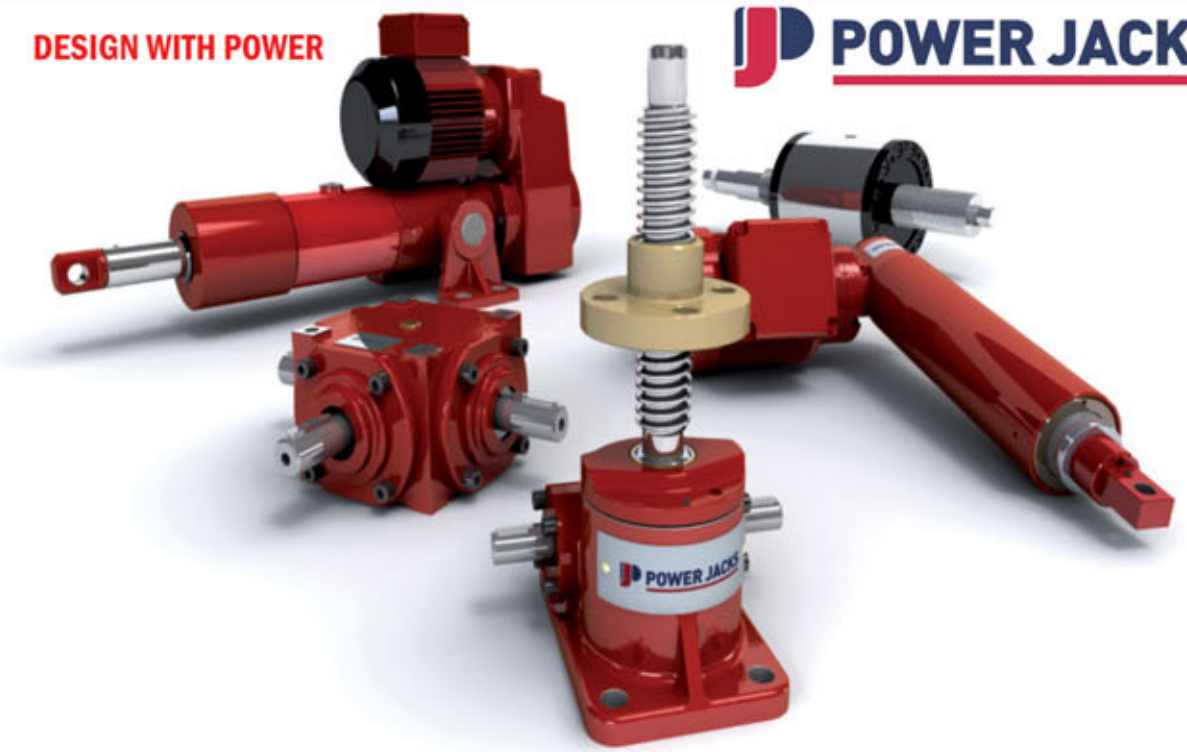

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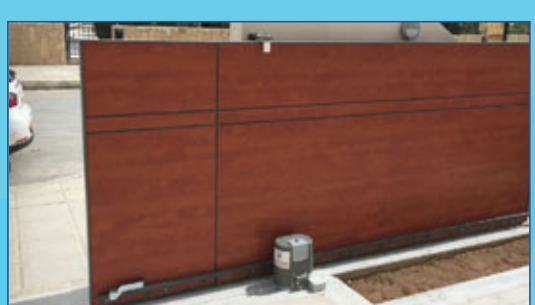

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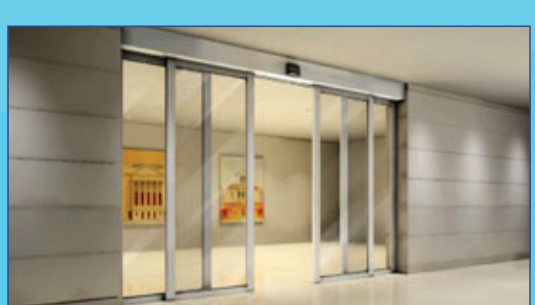

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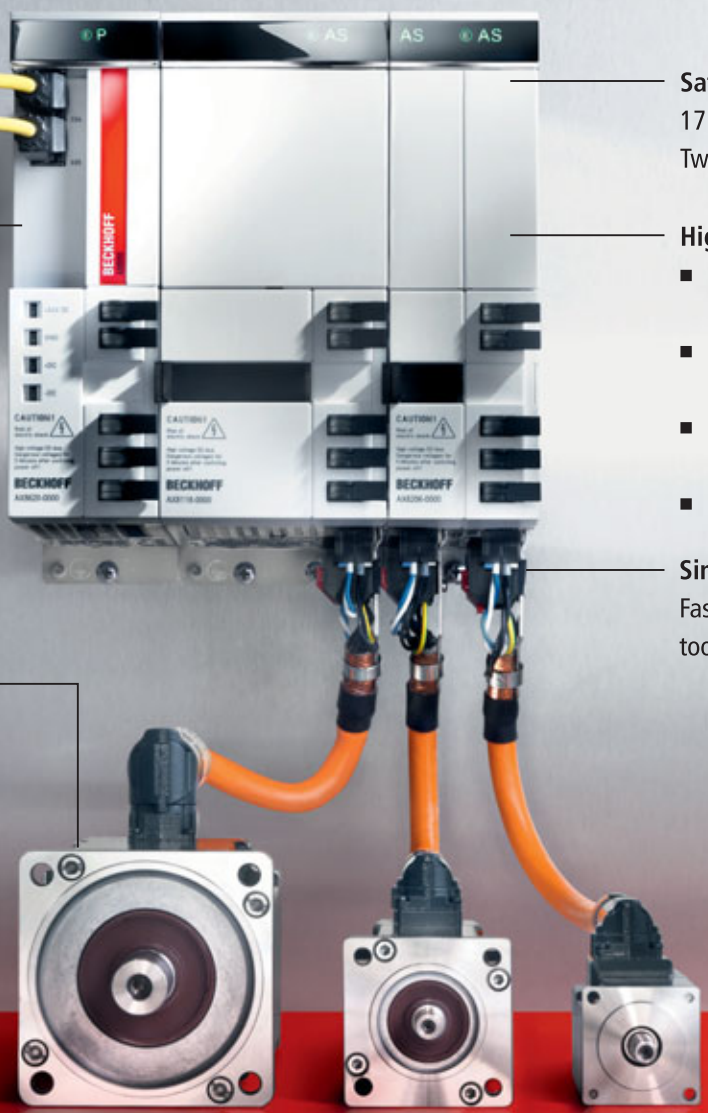

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  - 1-channel axis module, 1 x 8 A, 1 x 18 A
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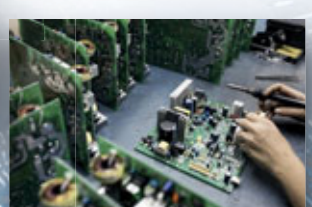

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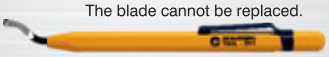
Deburring Tools with Handle

DT-1

This is a Simple, Economical Tool. It has universal blade C-10 attached to a hexagonal handle with pocket clip.
The blade cannot be replaced.

Packing Model	Includes
DT-1 (2) (31014)	2 pcs of DT-1
DT-1 (10) Set (86109)	10 pcs of DT-1



DT-2

In this the blade can be replaced. This includes Hexagonal handle with universal blade C-10.

Packing Model	Includes
DT-2 (31024)	1 pc of DT-2
DT-2 (5) Set (86059)	5 pcs of DT-2

DT-3

Here the blades can be replaced & stored from back side of the handle. The handle body is of ABS plastic & the blade holder is of polyacetal.

Packing Model	Includes
DT-3 (33033)	'D' Handle & 3 Blades C-10, C-20 & C-30

DT-3 (M)-SD

This is Polyacetal body handle & Matallic Blade Holder for longer life.
☑ Ergonomically designed.
☑ Has thumb rest. ☑ Grips well in Hand.
☑ Blades can be stored from backside.

Packing Model	Includes
DT-3(M)-SD (34034)	'D-SD' Handle & 3 Blades C-10, C-20 & C-30

DT-5-SD

Here the Blades can be replaced & the holder can be telescoped to reach & deburr the burrs at depth.
☑ Collet action ensures firm locking of plain surface holders.

Packing Model	Includes
DT-5-SD (34054)	'T-SD' Handle, DT(C)Holder & 5 Blades C-10, C-20, C-30, C-10(C) & C-15
DT-52-SD (34524)	'T-SD' Handle, DT(P) Holder & 2 Blades P1 & P2.

RDT-SD Rigid Deburring Tools (34064)

Extra Heavy duty deburring tool.
Strong, Sturdy & Rugged.
Type RDT-SD includes Handle 'R-SD' & Universal Blade R-10(S).

Key-Way/ Slot Deburrer KWS-SD (34074)

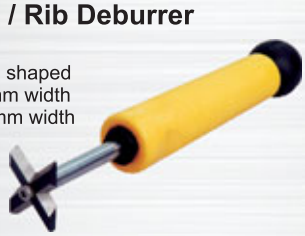
For simultaneous deburring of both edges of slot or key-wey. Four cutting edges -2 for std. depth of slot / key-wey & 2 for shallow depth. Includes Handle 'T-SD', telescopic holder KW, Blades KW-9 & KW-16.

Sheet / Rib Deburrer Set SDT (34084)

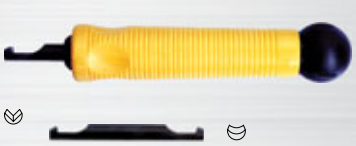
Excellent for deburring one or both edges of sheets / ribs. Width range 0 -12 mm. Cutting edge along the full circle on 2 sides.

'V' Shaped Sheet / Rib Deburrer VDT-SD (34094)

Unique Tool-has 4 nos 'V' shaped edges 2 nos for 1 to 12 mm width range & 2 nos for 0 to 4 mm width range. Includes handle 'T-SD', Telescopic holder VT & V-4 blade.



Sheet / Rib Deburrer V2-SD (34104)



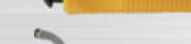
V-2 Blade

☑ Double ended tool.
☑ Held & replaceable in collet type T-SD Handle.
☑ Deburrs both edges of sheet/ rib of upto 4 mm thickness from one side.
☑ Single edge deburring from another side of the tool.

DT-SD (3-in-1) Set (86319)

☑ **This is a unique Deburring Tool with Handle which can hold three sizes of swivel blades viz. 'R' (6 mm⌀), 'C' (3.2 mm⌀) & 'P' (2.6 mm⌀)**
☑ **The handle has auto release system for easy change of blades & Holders.**
☑ **All the holders and blades can be stored from back side of the handle.**
☑ **Includes Handle 'R-SD', Holders SD-C & SD-P and 7 Blades R-15 (S), C-10, C-20, C-30, P-1, P-2 & P-3.**

Handle shown with R-15(S) Blade.



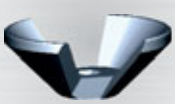
Holder SD-C

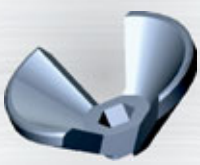
Holder SD-P

Handle shown with SD-C Hoder & C-10 Blade.

Patented

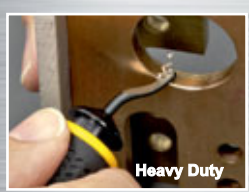
Deburring Tool Head for Inside (ID) & Outside (OD) Diameter

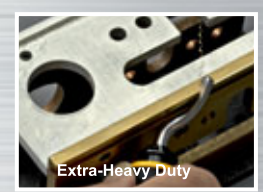


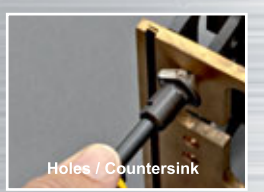


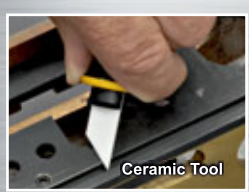
- Rigid, one piece construction - made from HSS (M2) grade material
- Quick reversal of tool for deburring of ID & OD
- Two Flute tools in 3 sizes with 60^0 & 90^0 included angle cover range from : 5/8" to $2\frac{7}{16}$" (16 to 62 mm) of ID / Holes and 5/8" to $2\frac{9}{32}$" (16 to 58 mm) of OD
- Single Flute tool with 60^0 & 90^0 included angle cover range from : 5/32" to $1\frac{13}{16}$" (4 to 46 mm) of ID / Holes and 5/32" to $1\frac{21}{32}$" (4 to 42 mm) of OD
- The tools can be used :
  - Manually with hand held holder / handle OR
  - Manually with power driven tool OR
  - With Machine tool

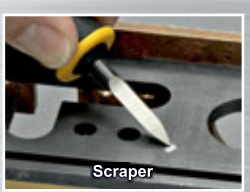
CP GRAT·EX Deburring Tools - Applications

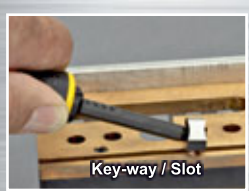


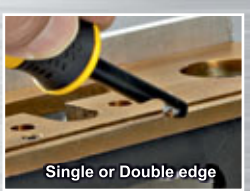


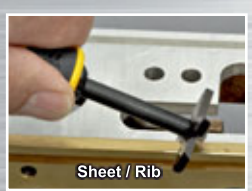


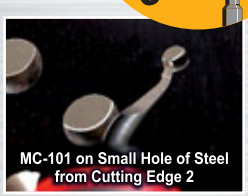


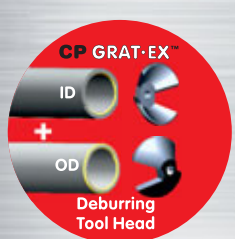












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SWITCHES FOR ETHERNET NETWORKS

Lapp offers a new line of switches for ethernet networks under the name Etherline® Access.

Features:

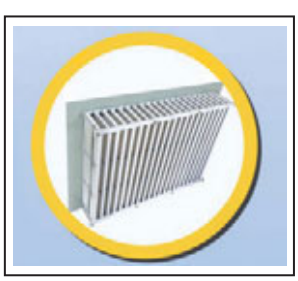
- Reconfiguration time, which is the period until communication is restored following an interruption, is only 20 milliseconds with 250 active components in the network; besides this, the switches are fully equipped with cutting-edge diagnostic and redundancy features.
- The combination of an industry-calibre switch and industrial branded cable such as ETHERLINE® provides maximum performance in terms of transmission quality and reliability.
- The customer does not need to purchase individual components from different suppliers, on the contrary, they can procure a complete communication solution from a single source for the highest demands in industrial applications.

About the company: Since 1957, the Lapp Group has been producing innovative cables, industrial connectors, accessories, and engineered solutions as a worldwide market leader.

Contact:

Lapp Group India, Bengaluru
Tel: 080-47405000
Email: info@lappindia.com

NOISE REDUCERS / ABSORBER MODULES



Pioneer Filters offers a wide range of noise reducers / absorber modules.

Features:

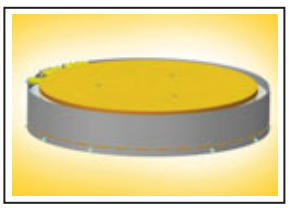
- These are type of noise modules used in machines to reduce the noise levels. The noise absorber materials are precisely hand cut and put inside the cartridges.
- It assembly is done with great care so that the performance is top class. The material is grit blasted and then painted for high quality finish as these are extensively used in a wide and varied environment.

About the company: Pioneer Filters was established in 1987 to manufacture air filters for trucks. Its first major client was the Kirloskar Electric Company in 1989. With more than 31 years in the filter industry, they are a pioneer in filtration.

Contact:

Pioneer Filters, Bangalore
Tel: 080-65340135
Mobile: 0973113774
Email: raghu@pioneerfilters.in

THERMAL CHUCKS



ERS electronic GmbH, Germany offers a wide range of thermal chucks.

Features:

- Industry's lowest soaking time; ultra low noise; fast transition times; PRIME Thermo Shield (PTS); reaching -10°C with NO chiller; highest flexibility with modular surface design.
- This is the 4th generation of thermal chucks from ERS, with a temperature ranging from -60 to 300°C.
- For test temperatures down to -10°C, no separate chiller is necessary, and for -40°C only a small chiller is needed (only 1/3 of the size of a normal ERS chiller).
- The PRIME Thermo Shield (PTS) is integrated into the chuck, leading to an estimated 2/3 reduction in soaking times compared to previous ERS models.

About the company: ERS electronic GmbH, is an innovation-based company in the market of thermal test solutions. It is engaged in maintaining consistent technological development in thermal management.

Contact:

ERS electronic GmbH, Germany
Tel: +49 (0)89 894132-0
Fax: +49 (0)89 8418766
Email: info@ers-gmbh.de

LIQUID FILTRATION SYSTEMS

S&C Invotek is a manufacturer of Liquid Filtration Systems.

Features:

- It is high and low viscous liquids used in the process of engineering and process industries.
- The range of products includes liquid bag filters, cartridge filters, SS mesh type pleated strainers, simplex and duplex filter housings that are manufactured to meet the process requirements.
- These products are used for filtration of coolants, alkaline, paints and varnishes, inks, solvents, process water, etc. Special bags are available for high viscous liquid filtration. polishing of wine, herbal extracts, juices are the major applications.

About the company: S & C Invotek is engaged in designing and manufacturing filtration products for engineering and process industries. The company also offers Duplex Filter Housings and Mobile Filter System. The product line consists of a variety of filters used for various applications and can be utilised for any system whether liquid, air or gas that requires the removal of unwanted particulate matter.

Contact:

M/s S & C Invotek, Bangalore
Tel: 080-26697112, 26797001
Email: info@invotekfilters.com

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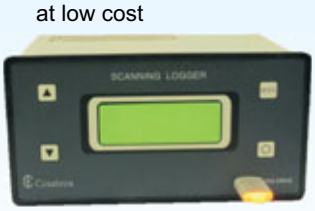

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EXPORT QUALITY PROCESS CONTROL INSTRUMENTS

SERVO AMPLIFIERS, AKD2G

Kollmorgen has launched its new generation of AKD Servo Amplifiers.

Features:

- The specialist provider of servo drive technology and motion control unveiled the new second-generation AKD servo amplifier concept – a concept that has plenty to offer in terms of safety.
- When safety technology kicks in faster and there are more functions available, man and machine together can work even more closely.
- From a safety perspective, AKD2G amplifier will offer important safety functions in the form of Safe Brake Control (SBC) and Safe Brake Test (SBT), which offers an efficient and cost-effective way of making vertical axes safe without the need for protective fences.

About the company: Innovators consistently rate Kollmorgen as one of their best motion systems manufacturing partners. Whether they are looking for classic servo motors; direct drive servo motors; stepper motors; drives & amplifiers; gearheads; actuators; or multi-axis motion controllers; Kollmorgen is one of the few companies in the world whom actually design and manufacture all of these products.

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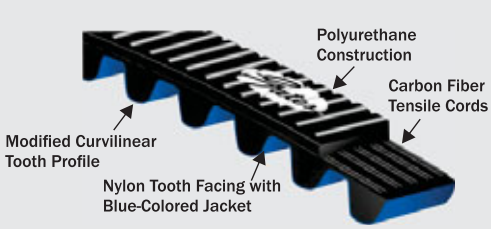

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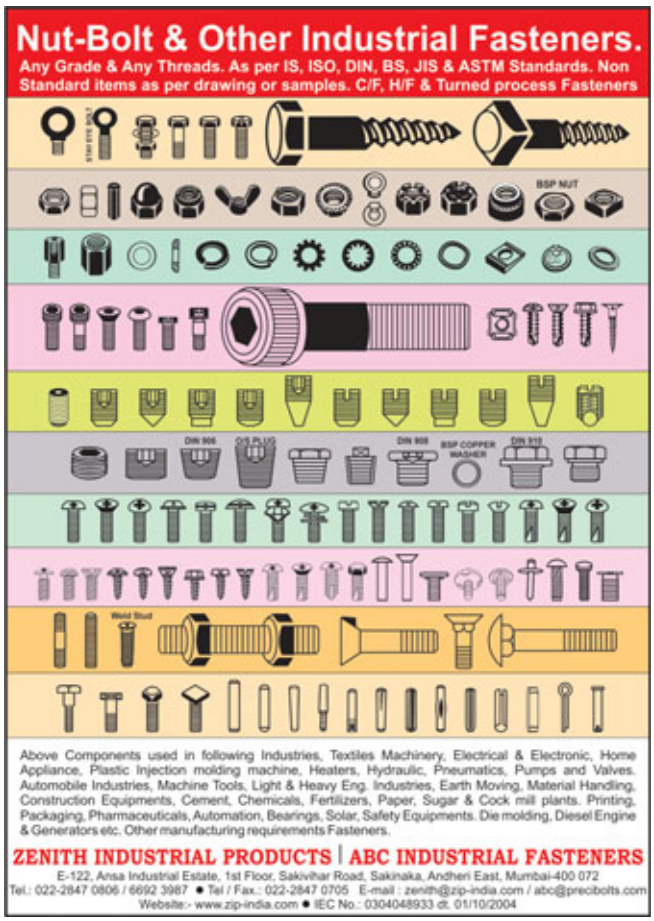

ACCUMULATORS, BLADDER TYPE

Neotech Equipments offers high pressure bladder type accumulators.

Features:

- Due to the compressibility of the gas, nitrogen, tche bladder accumulator enables to stock and return a liquid under store, to increase production rates due to large instantaneous flow rates that only accumulators can provide.
- The accumulator's ability to run independently moderates its installation cost while reducing your equipment running cost.
- This accumulator comprises a forged steel shell, a fluid port assembly and a rubber bladder compatible with a large number of fluids; it's special design allows the bladder to compress and deform into 3 lobes in order for the accumulator to store, then to deliver the fluid under pressure, as required.

About the company: Neotech Equipments Pvt Ltd started its operation in the year 1993. It is engaged in manufacturing, supplying, distributing and trading a wide range of supreme quality hydraulic equipment and tools.

Contact:

Neotech Equipments Pvt Ltd, New Delhi
Tel: 011-25740364 Mobile: 09540062568
Email: mail@neotechworld.com

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- cable and float level switches
- Oil level float switches

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- transparent level gauges
- tubular level gauges
- float and tape type tank gauges

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- thermal dispersion flow switches

FLOW METERS
- paddle wheel flow meters
- electromagnetic flow meters
- magnetic flow meters
- ultrasonic flow meters
- variable area flow meters

OPEN CHANNEL FLOW TOTALIZERS
- capacitive open channel flow totalizers
- ultrasonic open channel flow totalizers
- float type open channel Flow totalizers

LOSS OF HEAD INDICATORS
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- float type

VALVES
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- ibr certified blow down valves

rate of flow transmitter

float operated magnetic level switch

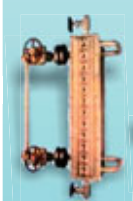
blow down valve

electromagnetic flow meter

rf capacitance type level switch

vibrating fork level switch

thermal dispersion flow switch


colour port level gauge

ultrasonic flow meter

ultrasonic open channel flow totaliser

Gear Box Oil Level Float Switch

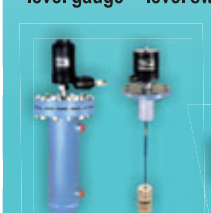
magnetic level gauge

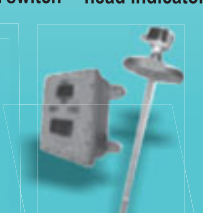
rotary paddle level switch

loss of head indicator

conductivity type level switch

reflex level gauge


displacer operated magnetic level switch


capacitance type level indicator

Paddle wheel flow meter

float & tape tank gauge

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Email: info@levcongroup.com, levconh@vsnl.net
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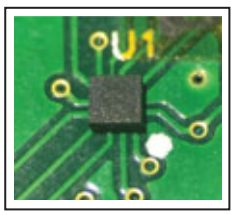
3-AXIS MAGNETOMETER



EPCOS India offers highly accurate 3-axis magnetometer.

Features:

- That combines an extremely sensitive tunnel magneto-resistive (TMR) element and an advanced electronic compass ASIC in a very small package.
- The new TMR magnetometer on a chip, which has miniature dimensions of just 1.6 mm x 1.6 mm x 0.6 mm, features the industry's lowest RMS noise of just 40 nT-rms and a very low current consumption.
- The magnetic sensor can detect minute changes in magnetic fields very precisely, enabling the highly accurate detection of both position and orientation.
- These unique characteristics make the TMR magnetometer ideal for compact electronic devices such as smartphones and all kinds of wearable devices.

About the company: EPCOS, a TDK Group Company, develops, manufactures and markets electronic components and systems, focusing on fast-growing leading-edge technology markets, industrial electronics, etc.

Contact:

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Tel: 022-25750800 Fax: 022-25750810
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Maap Instrumentation offers a wide range of brand Black hawk "Magnetic Vee Block".

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- These blocks are useful during measuring and scribing of rods, drilling and grinding irregular work pieces and also flat pieces for 45°and perpendicularity.
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About the company: Maap Instrumentation is one of the largest measuring instruments and machine accessories store in India and authorised distributors & for most of the renowned brands in the field of instrumentation.

Contact:

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Tel: 0422-3238768, 4072250 Mobile: 09442522350
Email: maapinstrumentation@hotmail.com

WATER COOLED INDOOR CHILLERS

Stulz has announced the availability of its innovative CyberCool WaterTec series of water cooled indoor chillers.

Features:

- Comprising five different models, with a cooling capacity ranging from 350-1400kW, CyberCool WaterTec is designed for use in a wide variety of applications including data centres, manufacturing and production locations, as well as commercial environments.
- Built using state-of-the-art energy optimised components, extensive equipment options and a wide temperature range at the chilled water outlet (1-19°C), these cutting edge indoor chillers also utilise oil free magnetic Turbocor compressor technology.
- Control is at the heart of CyberCool WaterTec and it uses the latest hardware to offer an enhanced experience.

About the company: Since its foundation in 1947, STULZ has evolved into one of the world's leading suppliers of air conditioning technology. This division of the STULZ Group achieved sales of around Euro 450 million in 2016. countries.

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HYDRAULIC CRIMPERS

UNIFLEX Hydraulik offers a wide range of hydraulic crimpers.

Features:

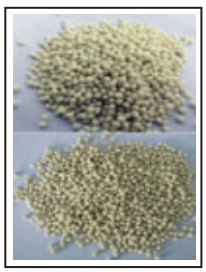
- Innovative HM crimpers from UNIFLEX are setting new standards. The HM 665 is a perfect example here, combining high productivity and quality with outstanding ergonomics and a long service life
- The machine offers an opening stroke of more than 180 mm and an opening diameter of 580 mm (without dies). It can thus be used to crimp industrial hoses up to 12" with ANSI flanges and pipe fittings up to 16" without having to remove the dies
- The fixed 6-o'clock die and the 250 mm long bottom die make workpiece positioning easy. Apart from hydraulic hoses, the machine can be used to join reinforcing steel, steel cables, ropes and insulators with forces up to 6000 kN.

About the company: UNIFLEX Hydraulik GmbH based in Karben near Frankfurt, Germany, has been developing, producing and marketing innovative systems for the production and machining of hoses. UNIFLEX supplies customers all over the world, including market leaders such as Caterpillar, Gates, Parker, etc.

Contact:

UNIFLEX Hydraulik GmbH, Germany
Tel: +49 (0) 6039/9171-270 Email: alla.kulakova@uniflex.de

HOT MELT ADHESIVES



Surfactant Industries offers a wide range of hot melt adhesives.

Features:

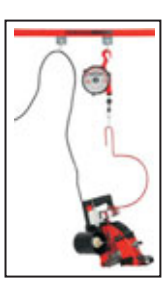
- STARKE D3 hot melt adhesives are high performance edge banding hot melt adhesives. New grades of hot melt adhesives-SI-7090M and SI-5050A for edge banding.
- SI-5050A is an edge banding hot melt adhesives designed for automatic machines; the application temperature is 190-210 degree C, both are available in 25kg paper bags.
- SI-7090M is an edge banding hot melt adhesives designed for manual Edge banding application; it has low application temperature between 130-150 degree.
- STARKE D3 hot melt adhesives are specially formulated for various edge-banding materials used by makers of kitchen, bathroom, office furniture's, fixtures and others. Hot melt adhesives have long shelf life and usually can be disposed of without special precautions.

About the company: Surfactant Industries, is a part of Lohiya Group of Industries, which was founded in 1950. In 1990's, Surfactant Industries was setup as a specialty manufacturing unit catering to high end applications and specialized products.

Contact:

Surfactant Industries, Jodhpur
Tel: 0291-2740293
Mobile: 09829100870
Email: lohiyas@gmail.com

HENDO BAG CLOSING MACHINE



Hendo Industries offers a wide range of bag closing machine.

Features:

- This machine comes with spring balancer and track trolley arrangement for increasing productivity.
- The machine has various advantages which include, reducing operator fatigue, increasing productivity, increasing safety, effective use of space and vertical usage.

About the company: Established in the year 1986, Hendo Industries are prominent manufactures and exporters of an extensive array of supreme quality of spring balancers, push pull trolley, double pulley spring balancer and suspension tracks. These products are manufactured from high quality material and in compliance with industry set norms by using sophisticated machinery, installed at their infrastructure.

Contact:

Hendo Industries, Mumbai
Mobile: 09819794744, 09820214832
Email: info@hendoinsurties.com

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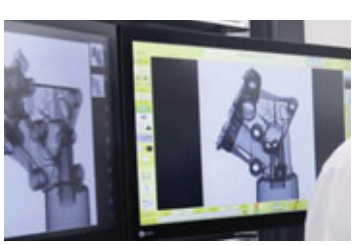

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- Comes with supporting system - inertia plate 50 mm MS lined by 2mm SS 304 with visco damper
- Clutch pulley/fluid coupling to reduce initial heavy load on motor and provide gradual acceleration with help of necessary belt drive

About the company: Apollo Machinery is an exporter, manufacturer and supplier of horizontal pharma peeler centrifuge, manual top discharge centrifuge, bottom discharge centrifuge, horizontal peeler centrifuge for starch, etc. for vertical high speed in basket.

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Apollo Machinery, Ahmedabad
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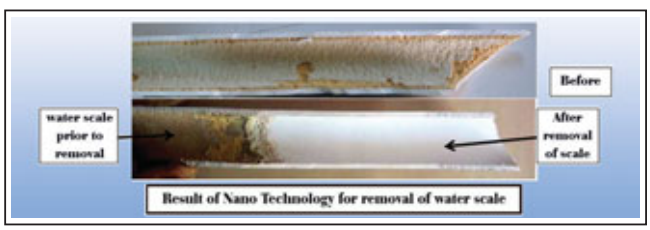
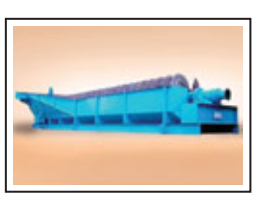


- Can also be applied for removal of scale while the technology is suitable for a closed loop water circulation system; it can also be used for an open loop circuit.

About the company: Process & Technology is a manufacturer and supplier of chemical, stainless steel chemical, SS pickling chemical, soldering chemical for copper tubes on SS sheet, etc.

Contact:
Process & Technology
Contact Person: Mr Sailesh Shah
F/2, Kastubanagar Society, Behind Nutan Vidyalaya
Sama Road, Sama, Vadodara, Gujarat 390 024
Tel: 0265-2711013 Mobile: 099244-41367
Email: process_technology@yahoo.com

SPIRAL CLASSIFIER



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- The classifying operation is carried out in a pool of fluid pulp, confined in a tank arranged to allow the coarse solids to settle out, whereupon they are removed by mechanical means.
- Solids that do not settle report as overflow from the pool; upgradation of 2 to 3% is achieved improving qualities of an end product.

About the company: Durga Metal Profiles is a unit pioneered in manufacturing, plant equipments, mineral processing equipment, engineered mineral processing equipment. Its range includes spiral classifier, industrial spiral classifier, solid-liquid separators spiral separator, etc.

Contact:
Durga Metal Profiles, Belgaum
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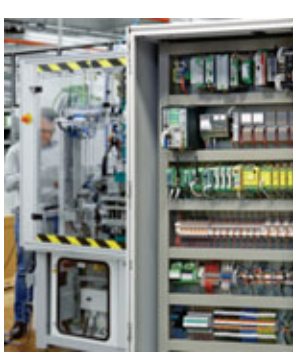

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About the company: Aquaion Technology is a manufacturer and supplier of water treatment plant and equipment such as waste water treatment plants.

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- These products are generally used in aviation, marine and traffic warning systems in order to indicate runway edge, aids to navigation signs and barricade markers.
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- Maximum forward current – 100mA; typical power consumption – 8.8 W maximum at 230V AC; input voltage variability – can withstand fluctuation of ±25%; PIV protection – LEDs internally protected against rev voltages up to 1 kV
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About the company: Aquila Engineers Pvt Ltd specialises in short turn indicators, LED based aviation light, DC power source, battery charger, PCB card, etc.

Contact:

Aquila Engineers Pvt Ltd, Vadodara
Tel: 0265-2646701. Mobile: 09898026697
Email: aquilaengineers@yahoo.co.in

PLASTIC CUTTING MACHINES

Archana Extrusion Machinery Manufacturing provides a wide range of plastic cutting machine.

Features:

- The product is widely used for the pre-crushing process for rubber, plastic and other material.
- System comprising motor, V belt pulley, machine frame, screen supporter, screener; machine designed to provide for superior crushing effect
- Comes with hard alloy/wear-proof steel blades to grind various kinds of hard material coarsely; output size controlled by screen
- Machine has water cooling for controlling temperature and ensuring output quality; main shaft speed of 600r/min
- Feeding size of ≤200*30 mm; output size of 4 to 20 mesh; motor power option of 3.75 and 22 kW

About the company: Archana Extrusion Machinery Manufacturing is a manufacturer, exporter and supplier of plastic processing machinery including extrusion plants. These machines are designed and constructed to deliver end products that meet international finish.

Contact:

Archana Extrusion Machinery Manufacturing, Ahmedabad
Tel: 079-22745089. Mobile: 09979856891
Email: sales@archanaextrusion.com

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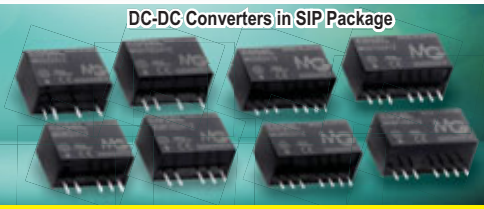

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- Aux outputs 5VDC,12VDC,24VDC (optional)

GMA series

300W Medical grade High power SMPS in 2"x4" package.1U height

5 years Warranty

- Input : 85V-264VAC
- Output : 12VDC,24VDC
- Safety Standard
  >Information Technology : UL/EN62368-1 (Former UL/EN60950)
  >Medical : EN60601-1 3rd Approved, IEC60601-1-2 4th Comply
- AUX 5V@1A, 12V@1A and Remote on/off are added
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Pls contact us for more details

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Tel: +91 80 4112 5177 • Tel./Fax: +91 80 2221 1961 • Mob: 98860 99143 • E-mail: sales@coselasia.com • Web: http://www.coselasia.com

FLEXIBLES DROPS

Aruna Agencies cater for high quality fire flexible drops sprinklers.

Features:

- These flexible drop equipments are made of superior quality raw material.
- The offered fire products are excellently designed and are available in different specifications as per requirement.
- Users can avail of customised flexible drop sprinklers in varied sizes, lengths and designs.
- High performance; different designs; easy to install and use; temperature resistant

About the company: Aruna Agencies is a wholesaler and supplier of automation products, fire security systems, security systems and safes and vaults. This range is widely used in both commercial and domestic sectors like banks, offices, residential establishments, corporate houses, shopping malls and multiplexes. The wide range of products offered comprises of fire extinguishers, dry chemical powder DP25, fire solutions, minimax water Co2, minimax ABC stored pressure, fire hoses, etc.

Contact:

Aruna Agencies, Hyderabad
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SLAT CONVEYOR

Array Machineries offers slat conveyor.

Features:

- Used for transfer of bottles/ cartons in filling, capping machine line; conveyor can be straight or 90° bend type depending upon the filling machine positions
- Such type of conveyor is also suitable for labeling applications or for batch coding; conveyor speed – variable up to 25 metres/min with VFD.
- Conveyor length – 500 mm to 3500 mm; slat width – 82 mm to 190 mm; slat material – SS, lf acetal, delrin; motor/gearbox – bonfiglioli/panasonic.¼ HP, 3 phase, 50 Hz; drive – telemecanique/delta; moc SS 304
- Accessories – side adjustable guide rail, emergency on – off switch, rejection/collection assembly, stoppers, etc.

About the company: Array Machineries is a manufacturer and trader since 2008 of industrial conveyor, pouch packing machine, filling machine, cartoner machine, sorting machine, etc.

Contact:

Array Machineries, Thane
Tel: 022-25331437
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CONVEYORIZED INFRARED OVEN

Arvind Industrial Product Corporation offers conveyorised infrared oven.

Features:

- The firm specialises in designing, manufacturing and installing custom designed conveyor oven used by manufacturers of items like locks/door handles/fancy brass or zink components which are coated with electro-phoretic lacquer or powder coated.
- Infrared heaters are used to dry the components which are continuously moving inside the oven through conveyor; jigs are hung over conveyor and pass through length of oven.
- IR dries lacquers from inside out to reduce the drying time; superior range of conveyor IR oven for EPL/spray logur grading is offered.
- All the ovens are designed for high energy efficiency that results in power saving and reducing the fuel cost.

About the company: Arvind Industrial Product Corporation is engaged in design and manufacture of power and motor control center, distribution boards, feeder pillars, automatic power factor correction/AMF panels etc.

Contact:
Arvind Industrial Product Corporation, Faridabad
Tel: 0129-2230153. Mobile: 09811004152
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AUTOMATIC STRAPPING MACHINES

Ascent Packaging Systems provide automatic strapping machines.

Features:

- The machine is useful in strapping and packaging of cartons, calcium-plastic cases.
- The range of strapping machines is available in two different models, semi-automatic strapping machine and automatic strapping machine.
- CE marked machine – high speed strapping at 1,440 straps per hour; no lubrication required; aluminum alloy die-cast main body block; rust free; high consistent performance level.
- Sealing head with advanced features such as reversible cutter and improved cam profiles for longer life: made for 24 hour continuous duty; operation through front-body panel or floating switch.
- Very low power consumption of 720 W.

About the company: Ascent Packaging Systems Pvt Ltd is a team of packaging professionals, helping reduce the end of line secondary packaging cost by providing optimum solutions.

Contact:
Ascent Packaging Systems, Pune
Mobile: 09960634349
Email: marketing@ascentpackaging.com

FATIGUE TESTING MACHINE FOR CONCRETE BEAMS

Ashian Engineers Company India provides fatigue testing machines for concrete beams.

Features:

- Fatigue testing machine is a rotating beam type machine in which load is applied in reversed bending.
- The standard 8 mm dia specimen is held in special holders at its ends and loaded such that it experiences a uniform bending moment.
- The specimen is rotated at 4200 rpm by a motor; a complete cycle of reversed stresses in all fibers of the specimen is produced during each revolution.
- The bending moment is applied with a lever system and can be easily changed by moving a weight over the lever.
- Total number of revolutions at which the specimen fails is recorded by a digital counter; an interlocking system puts off the motor at specimen failure.

About the company: Ashian Engineers Company India is a manufacturer and exporter of laboratory equipment and testing machines. This range consists of material testing machines, digital tensile testing machine, tensile/compression testing machine, among others.

Contact:
Ashian Engineers Company India, New Delhi
Mobile: 09871112859, 09212112859
Email: info@ashianengineers.com

AMF PANELS

Asian Power Systems (I) manufacture high quality DG/Grid synchronising/ AMF panels.

Features:

- This is widely used in the electrical, electronic, telecommunication and allied industry.
- Premium electrical components are used for fabricating the panels, such as aluminum/copper busbar, insulator, PVC channels transformer, etc.
- To be operated in parallel, these are fast and reliable; synchronising and precise kW load sharing inbuilt protections for engine, generators and mains like over current, overload, earth fault.
- Reverse power, over/under voltage, low oil pressure, high water temp over speed and sync check, AMF, etc.
- GRID paralleling is possible with import/export control PLC for system logic configurable input/output as per requirement.

About the company: Asian Power Systems is a manufacturer and supplier of electrical and instrumentation control panels for various industrial applications. The company offers HT panels, LT panels, MCC panels, PCC panels, soft starter panels, etc.

Contact:
Asian Power Systems (I) Pvt Ltd, Pune
Tel: 020-46768440. Mobile: 09850827470
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ASPHALT MIXING PLANT

Atlas Equipments offers mobile counter-flow asphalt mixing plant.

Features:

- Sometimes critical projects require frequent shifting of the plants from one place to another and also to make high volumes of HMA.
- The counterflow asphalt mixer by Atlas is designed for maximum mobility and its compact design is suitable for long-term projects and frequent shifting.
- The firm promises erection and dismantling in short time; all the units are modular which makes transportation easy.
- The highlight of this machine is the separate zones of heating and mixing; the first drum is the heating zone which heats the aggregates in a counterflow process.
- In the second drum, heated aggregates are mixed with bitumen and filler material; addition of recycled asphalt is also very easy on this equipment.

About the company: Atlas Equipments is engaged in manufacturing, supplying and exporting the road and civil construction machines. The product range consists of asphalt batch plants, stationary asphalt drum mix plants and counter-flow asphalt plants.

Contact:

Atlas Equipments, Mehsana
Tel: 02762-224383. Mobile: 09879554550
Email: contact@atlasequipments.com

SERVO AUGER FILLER, MODEL AMP 1300

Auro Machines offers servo auger filler, model AMP 1300.

Features:

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- Audio and video fault indicator and annunciator; variable frequency driver film pulling and stirrer; static charge eliminator for efficient sealing
- Level sensor to maintain the product level in the hopper; product conveying arrangement to the hopper by screw conveyor (optional); pouch transport conveyor (optional)

About the company: Auro Machines Pvt Ltd is fully equipped with R&D and quality control measures. It is a manufacturer and exporter of pouch packaging machines, form fill and seal machines, powder packing and liquid filling machines, packing of free flowing and non sticky course. It is also a supplier of the indigenous packing machines.

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Laxmi Pharma Machines offers a qualitative range of automatic rotary bottle washing machines.

Features:

- Fabricated in compliance with the industry laid standards and norms, these machines are easy to operate and install.
- Machines are suitable for various types of round and flat bottles and other type of containers.
- All contact parts are made from SS-304 material meets CGMP norms; water re-cycling arrangement is possible as per given requirements.
- Machine with indexing device mechanism; geneva-cm mechanism drive; various type of spray zones in machine (outside and inside).
- SS tanks and pump provided with the machine; semi automatic machine-manual loading and unloading.

About the company: Established in the year 2004 as an ISO 9001:2008 certified firm, Laxmi Pharma Machines, is engaged in manufacturing, supplying and exporting a comprehensive range of sealing, labeling and allied machinery.

Contact:
Laxmi Pharma Machines, Ahmedabad
Tel: 079-22900488 Mobile: 09913593434
Email: sales@laxmipharmamachines.com

BUBBLE WASHER

Raman Industries offers a wide range of bubble washer.

Features:

- The working principle of these machines depend upon the air pressure bubbles which is created in bulk volume of water.
- One side of the inlet takes the material and then the cleaned part of the material is carried out by the conveyor belt at the output end.
- The output can be collected at the mesh tables or on the cuing belt directly
- The bubble washer also has the sterilisation process which is performed by means of spray chamber.

About the company: Raman Industries manufactures and supplies of a wide range of food and vegetable processing machinery. These encompass pulp extraction machineries, bottle filling equipment, pickle machinery, namkeen machinery, food processing machinery, fruit and vegetable washing equipment. Further, the finished products are inspected on the parameters of power consumption, corrosion resistance and durable finish. The tested and approved range of machinery is used for processing of food, fertilizer, cosmetic and spices.

Contact:
Raman Industries, Delhi
Mobile: 09871296617. Email: ramanindus@ymail.com

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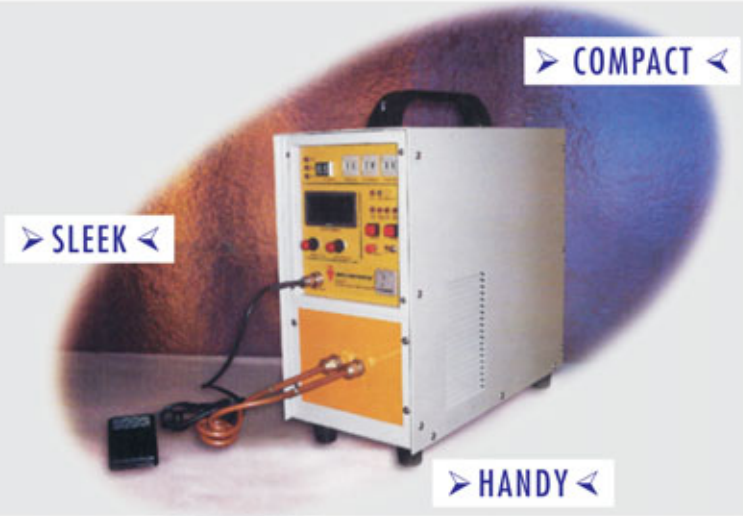

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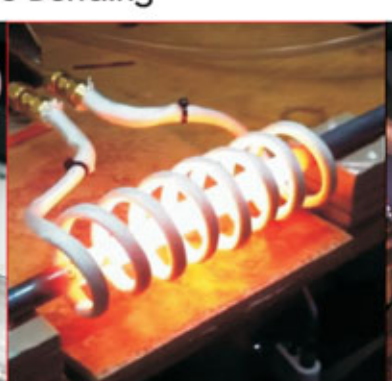
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Atlas-Crane provides underslung EOT crane.

Features:

- Transferring the loads directly from crane to crane or by fixed transfer sections, these cranes are appreciated for optimum lifting capacity.
- The offered range of underslung EOT cranes comprises a bridge girder to end trucks operating on the lower load carrying flange of the runway girder.
- This is always supported from the building roof trusses; to meet the loading and span needs, the range of underslung EOT crane is available in single girder and double girder construction.
- Abrasion and corrosion resistant construction; high load bearing capability; foot mounted hydraulic thruster brakes for hoist; option for pendent, radio remote and cabin operation; long service life.

About the company: Atlas Crane is a manufacturer, exporter and supplier of material handling equipment such as cranes, hoists and winches. These include double girder EOT crane, single girder EOT crane, underslung EOT crane, jib crane and gantry crane.

Contact:
Atlas-Crane Private Ltd, Chennai
Tel: 044-32919997. Mobile: 09443097385
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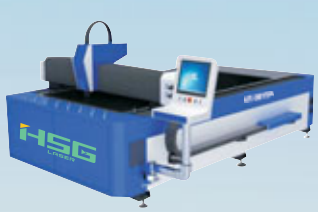
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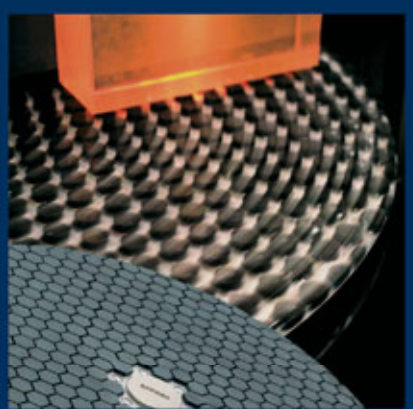

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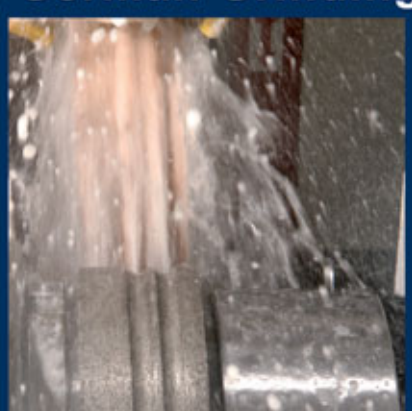

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MOTORISED BUTTERFLY VALVE

Automation Tekniks offers single phase motorised butterfly valve.

Features:

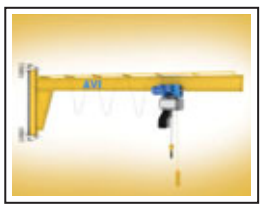
- This type of flow control device used to regulate the fluid which flows through a section of the pipe.
- The plate is positioned in the center of the pipe and it is similar in operation to a ball valve.
- The plate has a rod which is connected to an actuator on the outside of the valve; it is manufactured in accordance with requisite norms and standards and can be customised.
- Integrally molded inside; light weight and cost effective substitute; primary and secondary seals integral with body fittings
- Different disc and seat combination available on request; size range – 50 mm to 600 mm

About the company: Automation Tekniks is engaged in trading of Chinese parts and supplies oilfield spares and equipment, oilfield drilling services, safety equipment, installation, laying of pipelines, and fabrication of pressure vessels.

Contact:

Automation Tekniks, Pune
Tel: 020-24356674. Mobile: 09372400295
Email: yogeshkale7@gmail.com

WALL MOUNTED JIB CRANE



A V Industries offers wall mounted jib crane.

Features:

- Easy installation, robust construction and long operational life; widely used in the construction industry and manufacturing units to move cargo from one place to another.
- Primarily used for long lateral movement under an overhead crane, the AVI wall traveling jib cranes provide lift under a large overhead crane.
- End carriages made of box type steel fabrication, fully machined after fabrication to give consistent manufacturing tolerance; top end carriages have double flanged crane wheels.
- All travel speeds are two speeds in 1:4 ratio; all travel drives are fitted with fly wheel inside the motor and special alloy rotor for soft start/stop features.

About the company: A V Industries is a manufacturer, exporter and supplier of material handling equipment, material handling cranes and material lifting cranes. Its product range includes single girder EOT cranes, double girder EOT crane, pillar mounted jib cranes, etc.

Contact:

A V Industries, Bahadurgarh
Tel: 011-25927021. Mobile: 09810035422
Email: avindustries@hotmail.com

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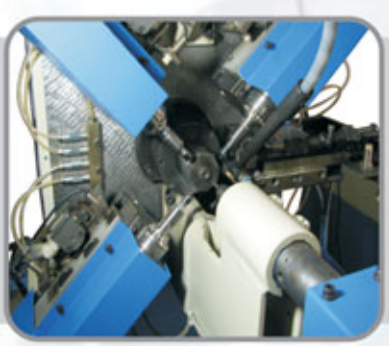

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DECANTER SEPARATOR

Auric Techno Services offers a wide range of decanter separator.

Features:

- The decanter is based on the difference in densities of the components using centrifugal force to carry out separation of phases.
- These decanter centrifuges are solid bowl type and have various unique features like open scroll, removable feed pipe and scraper mechanism, etc.
- Used for fruit and vegetable processing; industrial and municipal sludge de-watering & edible oil extraction.
- Pharmaceuticals and biotechnology – fermentation broth separation/clarification of various process liquids/biomass separation and biodiesel processing.
- Choking of decanter due to sticky solids is eliminated; sturdy construction, easy and complete cleaning possible; online optimising of separation efficiency.
- Maintenance ease; shear pin is provided in Pieralisi decanters, which is more reliable and simple.

About the company: Auric Techno Services Pvt Ltd imports and wholesales products and represents various brands like Teknofanghi products, Fan products, Savi-screen products, and screen and Pieralisi decanter.

Contact:
Auric Techno Services Pvt Ltd, Pune
Tel: 020-4078 9558, 65008168
Email: info@auricent.com

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OUTPUT VOLTAGE	OUTPUT CURRENT					
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0 - 60V	1A	2A	5A	10A	20A	
0 - 120V	1A	2A	5A	10A		
0 - 300V	1A	2A	5A			

DUAL OUTPUT DC REGULATED POWER SUPPLY

0 - ± 30V	1A	2A	5A	10A
0 - ± 60V	1A	2A	5A	10A
0 - ± 120V	1A	2A	5A	
0 - ± 300V	1A	2A		

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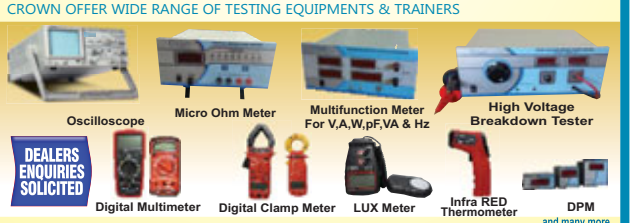

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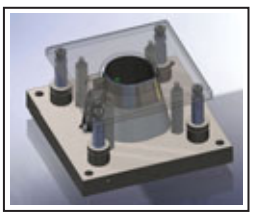

Avtar Tools offers a wide range of punching dies.

Features:

- These molds called dies can be designed to produce complex shapes with a high degree of accuracy and repeatability.
- Parts can be sharply defined, with smooth or textured surfaces that are suitable for a wide variety of attractive and serviceable finishes.
- Punching dies are among the highest volume mass-produced items manufactured by the metalworking industry.
- Die cast parts are important components of products ranging from automobiles to toys; parts can be as simple as a sink faucet or as complex as a connector housing.

About the company: Established in 2003, Avtar Tools is a manufacturer, exporter and supplier of die casting, sheet metal tools, sheet metal components and other engineered components. Its range of tools and components are manufactured using high-tech machinery and precision quality raw materials.

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Avtar Tools, Candigarh
Tel: 0172-5077467, 5077461. Mobile: 09814362504
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SPHERICAL BEARINGS

Bajaj Bearings offers spherical roller bearings.

Features:

- These are extremely resistant to shock loads and their self-aligning feature allows full capacity loading despite shaft deflection.
- They are very similar in purpose to self-aligning double row ball bearings, except the spherical roller bearings are designed to be more robust and carry heavier loads but at lower maximum speeds.
- These bearings have barrel-shaped rollers between the inner ring, which has two raceways, and the outer ring which has one spherical raceway.
- They are self-aligning because the center of curvature of the outer ring raceway surface coincides with the bearing axis.

About the company: Bajaj Bearings Pvt Ltd is a manufacturer and exporter of bearings under the 'Bajaj' brand having the largest range of automotive bearings-taper roller bearings (mm series and inch series), cylindrical roller bearings, needle roller bearings, spherical roller bearings, water pump bearings, etc.

Contact:

Bajaj Bearings Pvt Ltd, Thane
Tel: 022-28125621. Mobile: 09821418129, 09167760337
Email: info@bajajbearings.com

REVERSE PULSE JET CARTRIDGE

B D Fans And Enviro Engineering offer reverse pulse jet cartridge.

Features:

- Standard filter range from 10 to 972 m2; typical airflow volumes up to 65.000m3/h or more.
- Customised design as per requirement to meet with pollution norms; integral pre-separation chamber, down-flow inlet air pattern.
- Wide range of discharge options; typical dust control and process applications: bulk materials handling-conveying, screening, sieving, mixing, bin/silo venting.
- Shot, sand and bead blasting; building materials manufacture and distribution; dust extraction for all dry free flowing powders and granular material.
- Welding and cutting laser, plasma, arc chemical, plastics and pharmaceutical powders.

About the company: Established in 2008, B D Fans And Enviro Engineering is a manufacturer of centrifugal blower fan, fan impeller, axial flow fan, bag filters, cyclone separator, industrial scrubber, air damper, man cooler fans, FD cooler and many more.

Contact:

B D Fans And Enviro Engineering, Kolkata
Tel: 033-65257963, 65257963
Mobile: 09830325077, 07278553052
Email: bdair@vsnl.net

HAMMER DRILL

Beaver Engineering Corporation provides a wide assortment of hammer drill.

Features:

- These are used in bench drilling, underground production drilling, exploration and foundation drilling.
- Available in the size of 3" to 12", these are known for their low maintenance and energy saving features.
- It is suitable for harsh conditions and widely finds their applications in leading industries.
- These are constructed using premium quality raw material and have sturdiness and long life performance.

About the company: Established in 1977, Beaver Engineering Corporation is involved in manufacturing, supplying and exporting a variety of rock drilling tools and equipment. The product range includes DTH bits, DTH drilling rigs, rotary cum DTH rigs, crawler drills, wagon drills, DTH hammers and button bits. These are ideal for various rock drilling applications.

Contact:

Beaver Engineering Corporation, Hyderabad
Tel: 040-27121344, 65306204
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HYDRO GENERATORS

Acme Process Systems offers hydro generators.

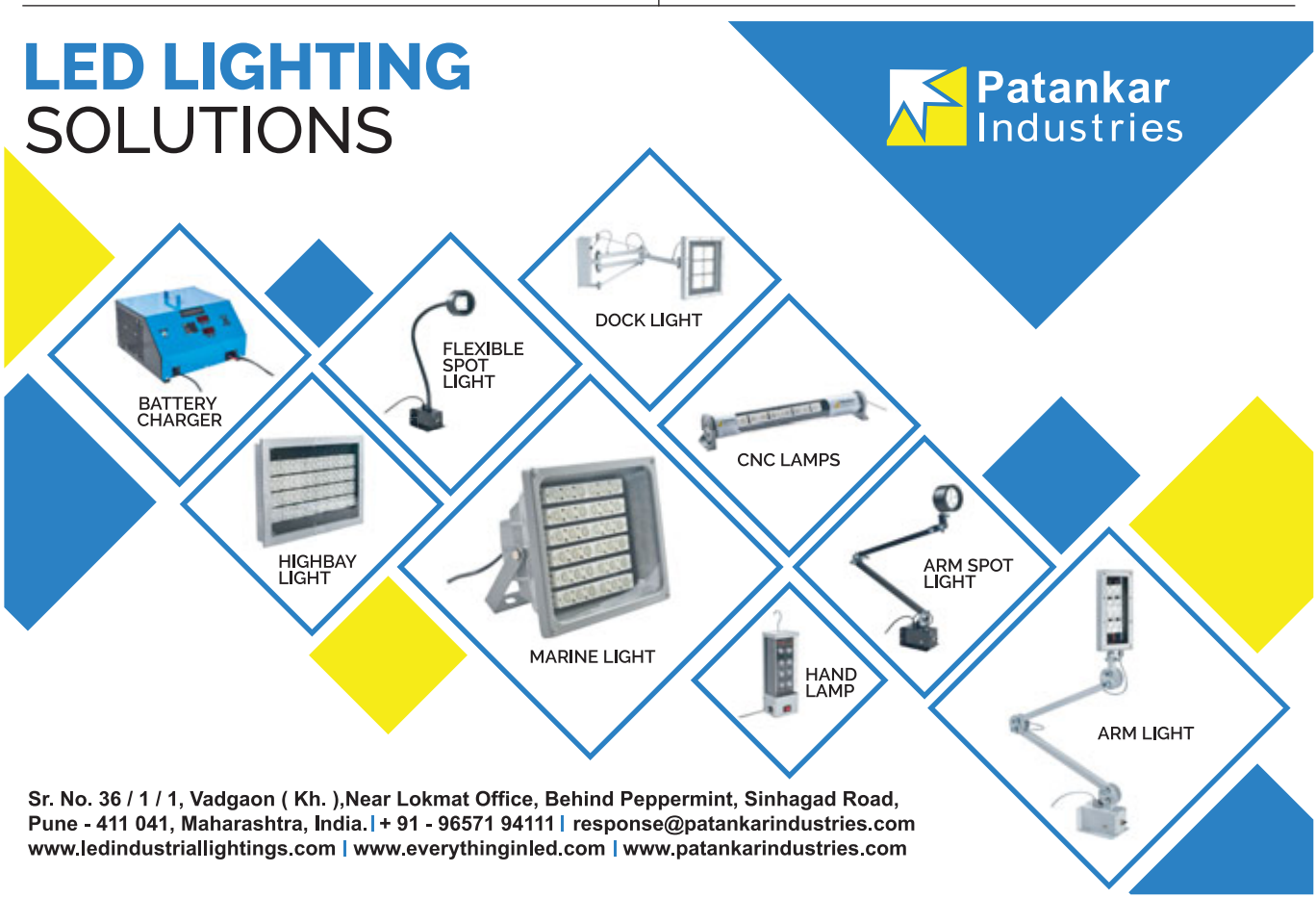
Features:

- Quality stainless steel hydro generators manufactured to facilitate easy functioning under varied operating pressures; made available in different operation capacities and pressure ratings.
- These can be manufactured is SS 304, SS316 or MS as per the specific process needs of the customers; coming with perfect mechanical design that provides low maintenance and downtime.
- High performing fluid hydro generators can be made available in options including standard and custom designs; products fabricated for durable usage as well as enhance work efficiency and assure optimum utilisation of the facilities.

About the company: Acme Process Systems is a manufacturer and supplier of distillation systems, industrial reactors and heat exchangers. Its range includes SS pressure vessels, multipurpose solvent recovery systems, pilot distillation systems, twin shaft dispersers, falling film evaporators and high speed dispersers.

Contact:

Acme Process Systems, Pune
Tel: 020-69001164. Mobile: 09545557950
Email: sales@acmeprocess.net



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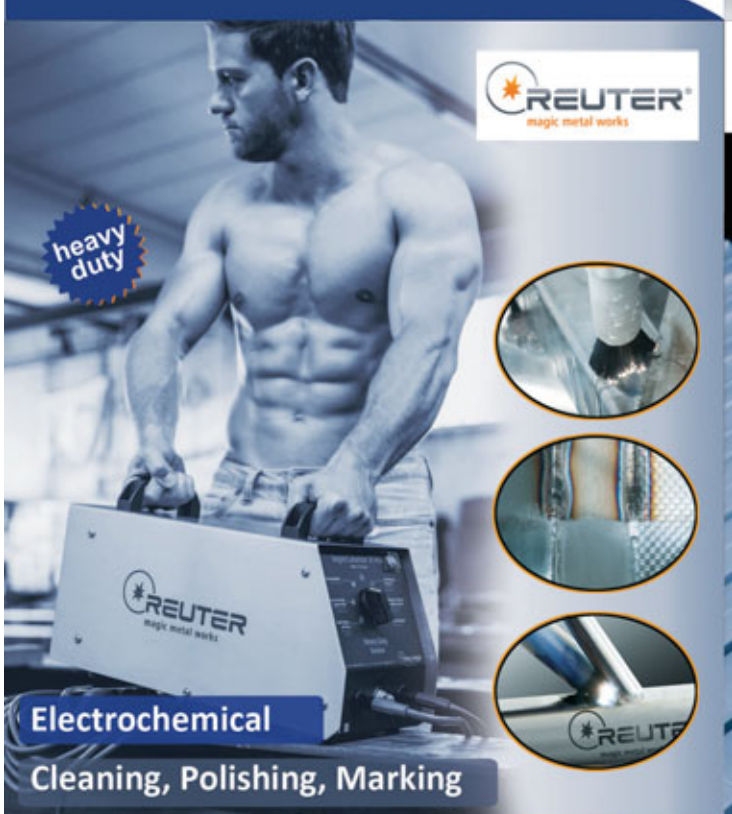

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Headline

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Vibronics offers ultrasonic cleaners.

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- These cleaners work on ultrasonic vibrations, as these vibrations act as elastic waves at high frequency, propagated in gaseous, liquid or solid medium.
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- The frequency should be stable and smoothly controllable over a certain range; the output should be controllable over a certain range; the generator output voltage curve should not contain higher harmonics.
- Cleaning by an ultrasonic promotes an extremely high degree of soil removal at a very fast rate compared to other conventional method of cleaning; can penetrate the most intricate and inaccessible areas, where other methods of cleaning fail.

About the company: Vibronics Pvt Ltd provides high end cleaning solutions like ultrasonic cleaning systems, flaw detectors, cleaning chemicals and cleaning detergents.

Contact:
Vibronics Pvt Ltd, Navi Mumbai
Tel: 022-27690440, 27690593
Mobile: 09370286090. Email: vibronicsndt@gmail.com

CAPSULE INSPECTION MACHINE

Allegro Pharmachem Equipments offers capsule inspection machines.

Features:

- Material of construction – non contact parts - SS 304 and contact parts - SS 316; suitable for inspection and quality check of capsule in quality control and assurance.
- Table structure base with ergonomic design for comfort at the time of inspection; SS 316 hopper with vibrator tray transfers the capsules to the roller with controlled speed and minimal dust.
- Food grade rollers act as conveyors, each rotating on its own axis; the rollers allow the capsule to rotate completely for all round inspection and discharge the capsule at the discharge port.
- Foot paddle at each user end for momentarily stopping the conveyor motion and picking the rejected capsules; control panel with user-friendly features.
- Sturdy base with PU wheels for easy movements.
- **About the company:** Allegro Pharmachem Equipments manufactures processing and inspection machinery used in the pharmaceutical sector.

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Allegro Pharmachem Equipments, District Thane
Tel: 0250-6450642/43
Email: allegro@allegroindia.com

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Aykay Electronics offers imported thyristor unit with higher efficiency.

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- Some of the thyristor units offered include: Autonics single phase power controller model SPC1-35 & SPC1-50; low cost imported unit suitable for phase angle or on/off control; SPC1-35 for 35A, 1phase load and SPC1-50 for 50A, 1phase load with built in heat sink.
- Field settable inputs – 4-20MA, on/off external control input, 1-5VDC, external volume control input of 1 kOhm from 0 to 100%; user adjustable output limit from 0 to 100% and compact unit of weight 1 kg.
- Model CD 3000 available in current rating 15-500A; load configuration delta-star/no neutral, star with neutral, open delta; input – 4-20mA, 0-10VDC, potentiometer.
- Feedback – voltage supply compensation, V or I/VxI; options – current limit, heater break alarm.

About the company: Aykay Electronics are providing products and solutions for instrumentation equipment, pressure transmitter, temperature transmitter, etc.

Contact:
Aykay Electronics, New Delhi
Tel: 011-22373333. Mobile: 09891391133
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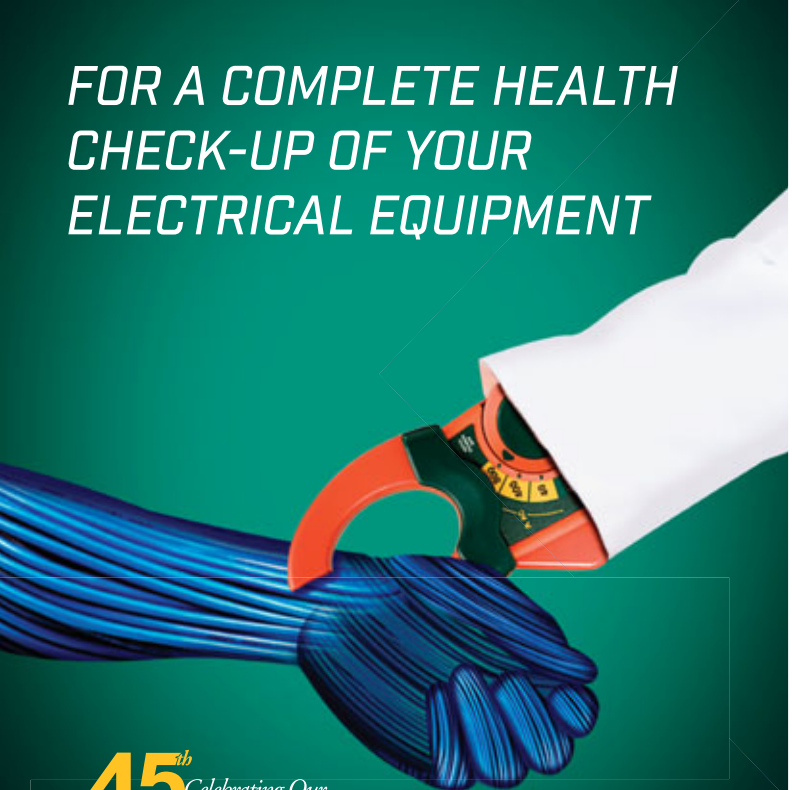

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Bakelite Electrical Mfg Co provides light compact chain pulley blocks.

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- These blocks have uses in material handling process in various industries for carrying heavy weight loads.
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- Precision splined load wheel for safety at jerk loads, duly hardened and tempered; alloy steel gears duly surface hardened; lower head room.
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- Trolley monoblock arrangement for lower headroom available; additional test certificate as per factory act on form 12 or IDLR test certificate.

About the company: BEM Co Pvt Ltd is involved in manufacturing, supplying, trading and exporting lifting accessories and other lifting equipment.

Contact:

Bakelite Electrical Mfg Co Pvt Ltd. Mumbai
Mobile: 09820180331 Email: isichain@bom3.vsnl.net.in

ELECTROMAGNETIC BEARING MOUNTED CLUTCH

Pethe Industrial Marketing Co offers electromagnetic bearing mounted clutches.

Features:

- The products are light in weight, compact and have high torque at low wattage; there are three parts to a clutch: stator (clutch body) which is fitted on the driving side, rotor which fits over the stator and armature plate which is fitted on the driven side.
- The transmitting torque is generated on supply of DC voltage to the stator.
- Clutch diameter – 63mm to 250mm; torque capacity – 7 Nm to 440 Nm; P-series bearing mounted clutch, this is a stationary coil clutch; carbon brushes are not required; consists of clutch body, rotor, armature plate.
- Asbestos free liner is used; armature plate is of 2 types: only spring steel armature plate suitable to mount gear sprocket, pulley and spring steel armature plate.

About the company: Pethe Industrial Marketing Company Pvt Ltd manufactures and supplies brake motors, clutches, clutch brakes, couplings, industrial automations, power transmission solutions, etc.

Contact:

Pethe Industrial Marketing Co Pvt Ltd, Mumbai
Tel: 022-24223976, 24220923, 24224592
Email: response@petheind.com, petheind@yahoo.com

PRINTING INDUSTRY CLEANERS

Highclean Ultrasonics offers a range of printing industry cleaners.

Features:

- Components of the most complicated shapes can be cleaned efficiently.
- These cleaners are manufactured by making use of high-grade raw materials and high-end technology so as to maintain the set industry standards.
- These cleaning machines are known for their optimum performance, low power consumption and longer operational life.
- The system shown will accept and rotate up to 6 rolls at 1040 face width, or 12 rolls up to 450 face width (depending on particular rolls).
- Ability to clean up to 12 rolls at a time; super sweep can deliver up to 4 kHz of sweep; corrosion-resistance; high performance; sturdy construction.

About the company: Highclean Ultrasonics, is a manufacturer, supplier and exporter of ultrasonics cleaning systems. The offered product range consists of industrial cleaning systems, table top cleaners and immersible transducers.

Contact:

Highclean Ultrasonics, Mumbai
Tel: 0250-2391340. Mobile: 09320161271
Email: highclean9@gmail.com

RUTF PROCESSING PLANT

Wahal Engineers offers setting up of RUTF processing systems.

Features:

- RUTF stands for ready to use therapeutic food. It is designed for specific, usually nutritional, therapeutic purposes as a form of dietary supplement.
- Therapeutic foods are used for emergency feeding of malnourished children, or to supplement the diets of persons with special nutrition requirements, such as the elderly.
- Low power consumption, high performance, durability and easy operation,
- A subset of therapeutic foods, ready-to-use therapeutic foods (RUTFs), are energy-dense, micronutrient-enriched pastes that have a nutritional profile similar to the traditional F-100 milk-based diet used in inpatient therapeutic feeding programs and are often made of peanuts, oil, sugar and milk powder.

About the company: Wahal Engineers manufactures and exports industrial process equipment such as micro grinding mills, bitumen emulsion plants, intank homogenizers, inline homogenizers, sand mills, etc.

Contact:

Wahal Engineers, New Delhi
Tel: 011-27821785. Mobile: 09891223802
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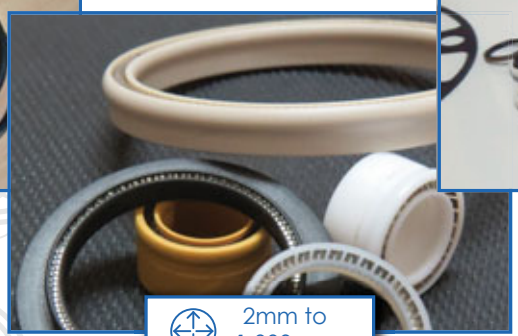

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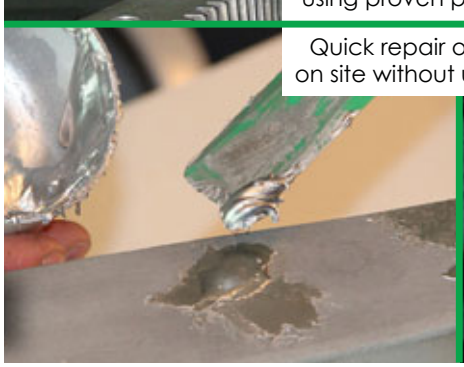

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Minimac Systems offer high-quality industrial oil filter machine.

Features:

- These machines are manufactured using optimum-grade components and spare parts, and are in compliance with international quality standards.
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- Removes sludge, solid contamination, varnish and lacquer using its surface filters installed in series and by two Karol depth filters.
- If the medium is changed from fiberglass to cellulose, Karol depth filters absorb water.

About the company: Established in 2012, Minimac Systems Pvt Ltd, an ISO 9001:2008 company, is engaged in supplying, distributing, manufacturing, exporting and trading a range of oil purification and reconditioning plants, laser particle counters and allied machines. These products are highly efficient, low in maintenance and have easy operation.

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PRESSURE TRANSMITTER

Pyrotron India Inc offers pressure transmitters.

Features:

- In order to adapt to the increasing improvement and development of domestic automation standards, the series of products has the intelligent zed function of Hart site mainline protocol.
- High accuracy; span and zero points: outside continuous and regular table; good stability; positive shift can amount to 500%; negative shift can amount to 600 per cent; two-wire system.
- Super measuring performance applies to measurement of hi-pressure, differential pressure, level and flow rate.
- It is the only sensor in the world that exploits H alloy protective covering patent technology.
- Standard 4-20ma with digital signals based on hart protocol, remote operation; supports the upgrade of on-the-spot main line and technology based on on-the-spot control.

About the company: Pyrotron India manufactures and supplies furnaces and ovens, digital displays, motion control, analytical instruments and many more.

Contact:
Pyrotron India Inc, New Delhi
Tel: 011-23643812. Mobile: 09899654377
Email: pyrotron@gmail.com

ONLOAD CHANGEOVER SWITCH

FTC Switchgear offers onload changeover switches.

Features:

- These are switch disconnectors with independent manual operation capable of making, carrying and breaking currents under normal circuit condition.
- These switches are modular in construction, compact in size and suitable for stringent utilisation category AC-23A/B.
- Compact size, quick make and quick break mechanism; high electrical and mechanical life; enclosed housing to avoid dust ingress; load and line reversibility; provision of phase seperators, add-on auxiliary switch.
- Door interlock and padlock facility; silver plated current carrying parts; bolt holders installed on terminals for easy cables/bus part termination.
- Flexibility for termination of supply; compact standardised size range 100A-200A as compared to leading indegenous makes, thus saving panel space.

About the company: FTC Switchgear Pvt Ltd is a manufacturer of control and signaling devices, pilot lamps, push buttons, push button stations, etc.

Contact:
FTC Switchgear Pvt Ltd, Bahadurgarh
Tel: 01276-267020, 267021. Email: ftcindia@gmail.com

WOOD FIRED WATER HEATER

Steelhacks Industries offers an innovative spectrum of wood fired water heaters.

Features:

- Offered water heater has insulated storage tank to keep water hot for longer periods; besides, it can be customised as per varied requirements.
- Maximum efficiency with minimum fuel; maximum utilisation of fuel is engineered; insulated storage tank keeps water hot for longer period; no moving parts, no wear and tear; hot water available within 10 to15 minutes.
- Long life due to usage of best quality of material; useful for hotels, hostels, hospitals, dairies, guest houses, dharamshalas and swimming pools.
- No electricity; pressure and leakage tested; installed outside the house; very convenient as supply can be made directly to use points; no maintenance.

About the company: Steelhacks Industries was established in 1980 as a manufacturer and supplier of solar water heaters and dryers. The product range includes domestic solar water heating systems, industrial solar water heating systems and solar dryers.

Contact:
Steelhacks Industries, Anand
Tel: 02692-236156, 235518
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Weltech Refrigeration Co. offers a range of industrial panel air conditioners.

Features:

- Provided with condensers and evaporators with extra large capacities, this range still manages to be compact.
- It is provided with 1 to 40 HP capacities and therefore, is highly efficient and consumes less energy; acoustically treated cabinet offers minimum noise and vibration.
- The industrial panel air conditioner is provided with convectional controls or microprocessor based controllers; during part load, the COP increases and saves energy.

About the company: Weltech Refrigeration Co. is a manufacturer, exporter and supplier of all kinds of cooling equipment. The company manufactures a wide range of panel air conditioners for CNC, panel air conditioners - stand alone type, industrial, for paper, for textile industry, precision water chillers, water chillers for extruders, stainless steel water chillers, etc.

Contact:
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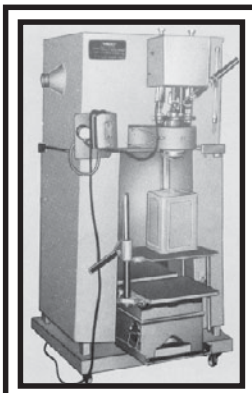

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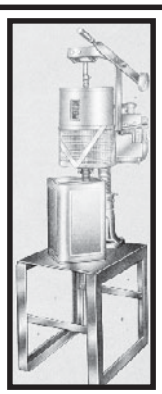

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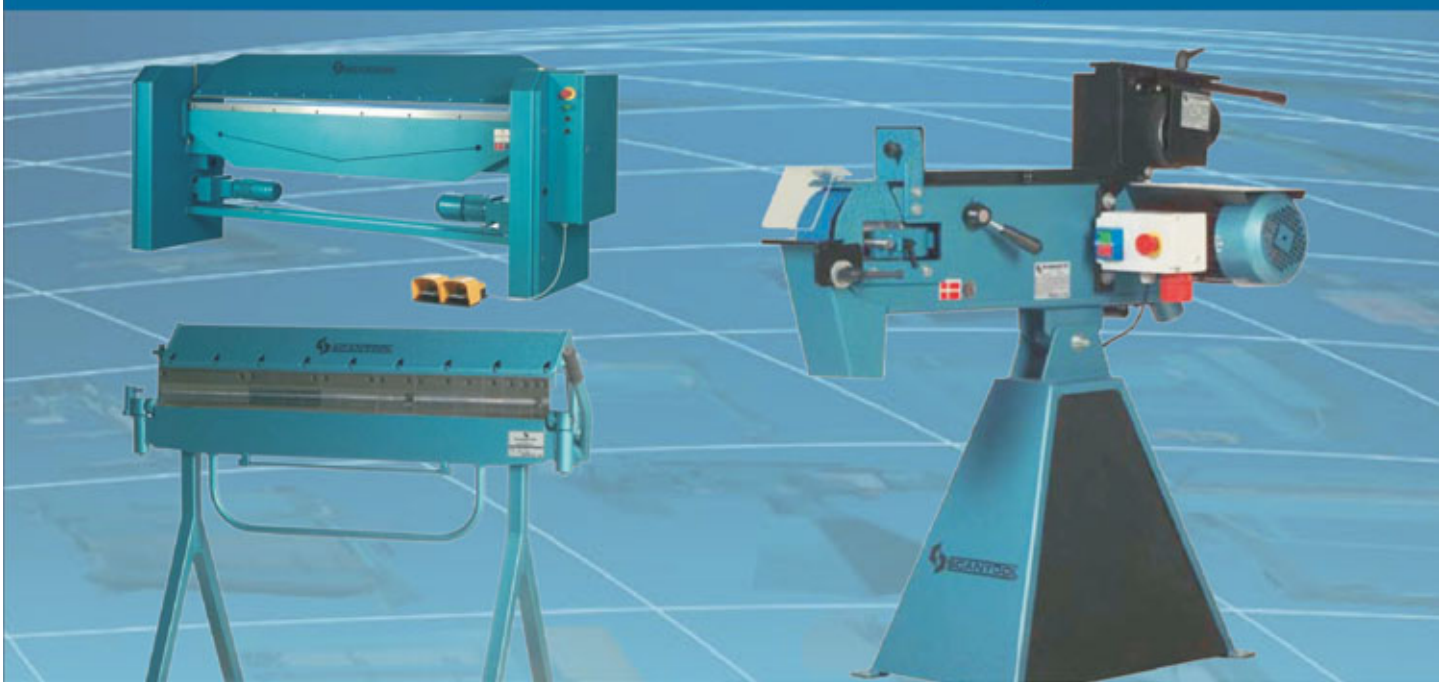

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Jiatai Laser Technology Co offers fibre laser metal cutting machines.

Features:

- This laser cutting machine is able to cut metal sheets and pipes, such as stainless steel, mild steel, alloy materials, copper, gold, silver, platinum, titanium, aluminum and so on.
- The cutting speed is 100 times higher than a linear cutting machine; small heat affected zone; good dimension stability; cutting slot flat and smooth, no need for a second process for cut surface.
- Steady performance: as a mature laser apparatus, the laser cutting machine is suitable for serial production.
- Both plan cutting and surface trimming can be finished by an automatic tracing system; machine can make high grade production with smooth surface, which is hard to obtain with NC punch.

About the company: Jiatai Laser Technology Co Ltd is a technology corporation offering laser marking machines, laser cutting machines, laser welding machines and various laser machines' spare parts.

Contact:
Jiatai Laser Technology Co Ltd, New Delhi
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Email: Jiatai.laser@gmail.com

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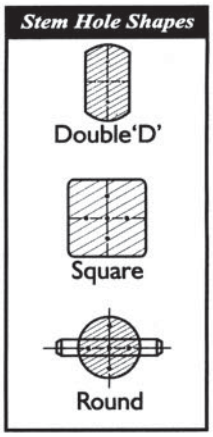

For Further Details Contact:

Sterling Tools

D-190, Industrial Estate, Gokul Road, Hubli - 580 030 (Karnataka) India.
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Super Fasteners Industries offers a variety of hydraulic control valves.

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About the company: Since establishment in 1976, Super Fasteners has been a wholesale trader of a comprehensive range of pneumatic fittings, hydraulic hose fittings, SS dairy pipe fittings, brass pipe fittings and many more.

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Super Fasteners Industries, Mumbai
Tel: 022-23438315, 23437341
Mobile: 09004686977, 09223306949
Fax: 022-23437341
Email: info@superfastenersindus.com, superfastenersindus@yahoo.co.in

ELECTRIC HOT AIR GENERATORS

Saz Boilers offers prime electric hot water generators.

Features:

- These electric generators are automatic and very easy to operate; they are customised as per given requirement i.e modulating, on-off type.
- Capacity – 10,000 kcal/Hr to 4,00,000 kcal/Hr; temperature range - 95°C for standard unit and 200°C for pressurizes unit; smokeless combustion.
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- High efficiency of about 98%; perfect and smokeless combustion; noise less operation.

About the company: Saz Boilers is a manufacturer, exporter, and supplier of steam boilers, hot water generators, thermal fluid heaters, hot air generators, etc. These products are used in various industrial applications in the sectors like food industry, laundries, chemical processes, textile industries, oil refineries etc.

Contact:
Saz Boilers, Pune
Tel: 020-26970420
Mobile: 09822036995, 08605013451
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NRB-IBC Bearings Pvt. Ltd. (NIBC) is a joint venture of NRB Industrial Bearings Ltd, India and IBC Wälzlager GmbH, Industrial Bearings and Components, Germany/IBC Industrial Bearings and Components AG, Switzerland.

IBC, has an experience of more than 40 years in the business of high precision bearings. Production facilities of IBC are in Germany and Switzerland.

NIBC has a state of the art production facility in Shendra (Aurangabad), India which is equipped with the latest machinery and inspection technology from Europe.

NIBC is the first Indian company manufacturing Super Precision Angular Contact Ball Bearings with the aim to fulfil the demand on the Indian Machine Tool Industry with these Super Precision Spindle Bearings and Super Precision Ball Screw Support Bearings.

ALWAYSE ENGINEERING was establihsed in 1939 in Birmingham, England as originators of the Ball Transfer Unit. They have become an integral part of the Material Handling Industry and the World's leading Ball Unit/Ball Transfer Unit manufacturer.

Alwayse Ball Transfer Units are used in industries throughout the World. There are many possible applications for Alwayse Ball Transfer Units, where loads need to be moved smoothly, precisely and with minimum efforts in any direction. Some typical applications include cargo and baggage handling, assembly lines, as a castor, machine loading, sliding door systems, machine tables, etc.

ALWAYSE
Ball Transfer Units

PRODUCTS • Ball Transfer Units • Castors

SJS Four Point Contact Bearings are manufactured at our works within house turning operation, grinding, heat treatment, hardness testing, finished grinding, honing, amd super finish washing, lubrication and packing. These bearings are used in cranes & Excavators, robotics, turntables, material handling machines, manipulators and facade cleaning systems.

NB LINEAR SYSTEM, JAPAN

NB LINEAR SYSTEM is a linear motion mechanism which utilizes the rolling motion of ball and/or roller elements. NB offers a wide range of linear motion products of high precision quality that contribute to the size and weight reduction of machinery and equipment.

Lock & Nut's

(The HVD LockNut provides a high-quality, user-

friendly bolt securing system for the most demanding of application. The captive androtary combination of the nut and the original HVD Lock Washers makes securing your bolted joints more efficient, effective and easier even under the most extreme vibrations and dynamic loads.

We have below given quality type locknut's

• Material Grade-SCM440 • HardnessHRC28-32 • Precision-ISO4H

The Series CFLocknut's is designed with3 Locking inserts that intersects the bore with an angle of 30 degree its appreciated for durability dimension accuracy and high rigidity, the locknut's effective lyre duces the torque that is formed by tightening the screw. These products are custom designed in different shapes and sizes as per our specification provided by our clients.

The Series CR Locknut's is designed with 3 Locking inserts that intersects the bore with an angle of 90 degree.

This series is specially applicable for use when locknut space is limited.

The Series CR Locknut's is locked with the means of bolts provided on the face the internal radial grooved ivides the thread of the lock nut into two section: locking section and clamping section Axi allocking capabilities more than three times higher compared to traditional locknuts, this series is aimed at harsh working condition where lock nuts are easily loosened.

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EXTRA HIGH VOLTAGE CABLES

Universal Cables offers extra high voltage (EHV) XLPE cables in the range of 66-220 kV.

Features:

- Underground power transmission system requires highest reliability to ensure uninterrupted power supply and Unistar EHV cable can guarantee this requirement.
- These are manufactured using VCV technology and also have in-house engineering expertise for system designing, cable jointing and installation.
- The cutting edge features of this technology are: simultaneous triple extrusion with single (common) cross-head, dry cure dry cooled process, dimensional accuracy for perfect geometry with zero eccentricity/ ovality of the insulation.
- Online X-ray monitoring system, direct gravitational feeding of XLPE compound, control and monitoring in production process using SCADA.

About the company: Universal Cables Limited's cable division includes low voltage, medium voltage and extra high voltage XLPE power cables up to 500 kV grade.

Contact:
Universal Cables Limited, Satna
Tel: 07672-257121 to 27
Email: sales@unistar.co.in

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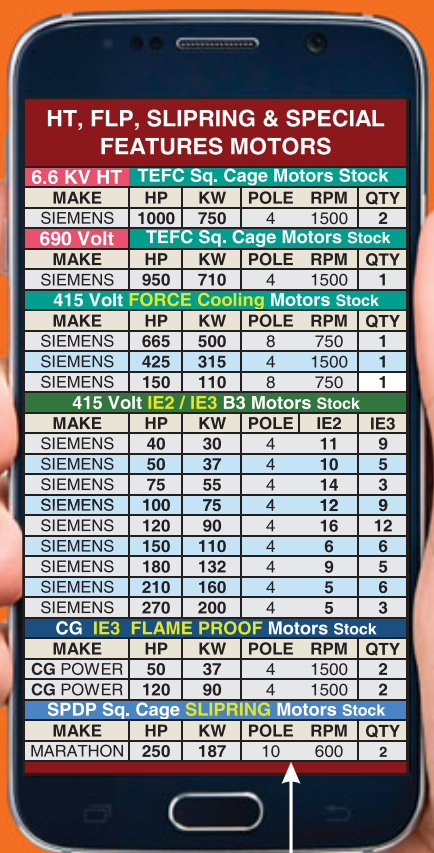

HT, FLP, SLIPRING & SPECIAL FEATURES MOTORS

6.6 KV HT	TEFC Sq. Cage Motors Stock				
MAKE	HP	KW	POLE	RPM	QTY
SIEMENS	1000	750	4	1500	2

690 Volt	TEFC Sq. Cage Motors Stock				
MAKE	HP	KW	POLE	RPM	QTY
SIEMENS	950	710	4	1500	1

415 Volt FORCE Cooling Motors Stock					
MAKE	HP	KW	POLE	RPM	QTY
SIEMENS	665	500	8	750	1
SIEMENS	425	315	4	1500	1
SIEMENS	150	110	8	750	1

415 Volt IE2 / IE3 B3 Motors Stock					
MAKE	HP	KW	POLE	IE2	IE3
SIEMENS	40	30	4	11	9
SIEMENS	50	37	4	10	5
SIEMENS	75	55	4	14	3
SIEMENS	100	75	4	12	9
SIEMENS	120	90	4	16	12
SIEMENS	150	110	4	6	6
SIEMENS	180	132	4	9	5
SIEMENS	210	160	4	5	6
SIEMENS	270	200	4	5	3

CG IE3 FLAME PROOF Motors Stock					
MAKE	HP	KW	POLE	RPM	QTY
CG POWER	50	37	4	1500	2
CG POWER	120	90	4	1500	2

SPDP Sq. Cage SLIPRING Motors Stock					
MAKE	HP	KW	POLE	RPM	QTY
MARATHON	250	187	10	600	2

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WOOD FIRE THERMIC HEATER

Sanjivan Industries offers wood fire thermic heaters.

Features:

- For higher temperature application, thermic fluid heating system is used.
- Semi automatic/automatic, vertical/horizontal coil type thermic fluid heaters with external furnace.
- Thermic fluid used in the system remains in the liquid phase in the entire operating range of the system.
- Thermic fluid temperature is kept low to prevent oxidation and degradation, expansion due to elevated temperature is taken care of and vapours and gases are liberated preventing cavitations in the pump by the specially designed expansion cum deaerator tank.
- Thermic fluid consists of nest helical coils; specially designed with large furnace volume and grate area for good combustion of fuel and sufficient residence time for thorough mixing of fuel and combustion air.

About the company: M/S Sanjivan Industries manufactures and exports a wide range of food processing machines and equipment.

Contact:
Sanjivan Industries Pvt Ltd, Vasai
Mobile: 09820998248, 09987187747
Email: sanjivan@sanjivanindustries.com

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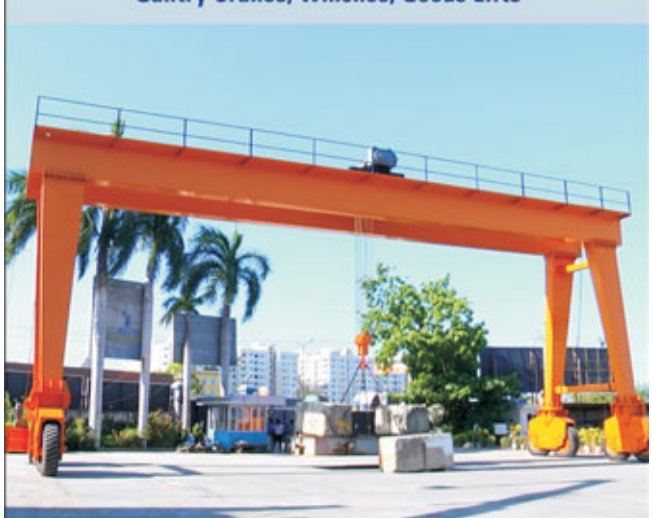

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WE LIFT TO YOU

FOOD HEAT EXCHANGER

Mark Engineers offers a wide range of food heat exchangers.

Features:

- Food heat exchanger comprises latest technology based equipment that finds application in efficiently removing heat from high-temperature fluids with processes involving convection and conduction.
- Optimum functionality based heat exchangers finding suitability in pharmaceutical industry sector; featuring use of thin acid-resistant stamped SS plates with brazed gasket support.
- All plate packs brazed with end plates and connections; comes with suitable vacuum brazing support done at high temperatures that offers permanently sealed working interface of these heat exchangers.
- Can be made available in tube metal options including MS, SS; fins can be made available in metal options including SS, copper, GI, aluminum.

About the company: Mark Engineers manufactures and exports heat exchangers, heaters for textile processing machine, tray dryers for chemical industries, dryers for pharmaceutical machinery, etc.

Contact:
Mark Engineers, Ahmedabad
Tel: 079-40083134. Mobile: 09825012504
Email: markheatcool@gmail.com, info@markheatcool.net

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ASEPTIC FILLER

HRS Process Systems offers a wide range of aseptic fillers.

Features:

- Integrated system which combines their innovative hygienic piston pump, Unicus; dynamic heat exchangers.
- Ecoflux corrugated tube heat exchangers depend on the process and their bag-in box bag-in-drum aseptic fillers.
- Versatile filler suitable both for liquid and liquid with diced products; compact, efficient; durable design, corrosion-resistant construction.
- Microprocessor-based controls; flowdesign, mass or weight control; vacuum cycle pre-fill; inert gas purge post-fill.

About the company: HRS Process Systems Ltd is a part of HRS Group, which operates in the field of thermal processing and is one of Europe's leading heat exchanger specialists.

Contact:

HRS Process Systems Ltd, Pune
Tel: 020-25663581, 66047894
Mobile: 08600007412
Fax: 020-25663583
Email: info@hrsasia.co.in, mktcom@hrsasia.co.in

GAS TURBINE COOLING SYSTEM

Aerotherm Products offers gas turbine cooling systems.

Features:

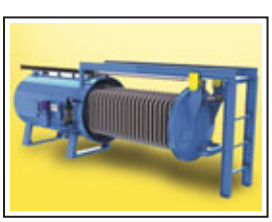
- The offered range of intake air cooling systems is made utilising high grade raw material and highly advanced technology in complete adherence with the international quality norms.
- Additionally, this range is offered in different customised designs, shapes and allied specifications to comprehend and meet diverse requirements.
- Extremely efficient power saving tool; waste heat used to generate chilled water by vam; intake air cooled from 40° C to 15° C.
- Enhance power generation by 10-15 per cent; Ügas turbines, air compressors and N2 compressors.

About the company: Aerotherm Products manufactures, supplies and exports a wide range of heat and air transfer equipment. Under this range, other offered products are industrial heat exchangers, industrial fans and blowers, industrial cooling units, fabricated components, air cooling units, tube bundles, etc.

Contact:

Aerotherm Products, Ahmedabad
Tel: 079-25841663. Mobile: 09879104473.
Email: info@aerothermproducts.com

HORIZONTAL PRESSURE LEAF FILTER



Sparktech offers horizontal pressure leaf filters.

Features:

- 1-100 m2 filtration area offered as per requirement; stainless steel filter elements, hence no repetitive cost, washing and maintenance of filter cloth; filtration rate are 2-3 times higher on same filter area.
- Automatic cake discharge with mechanical or pneumatic vibrator options and spray nozzle for wet cake discharge; ideal replacement for plate and frame filter.
- Closed system, no maintenance due to SS filtration mesh, low retention of oil, less occupancy of space & low percentage of unfiltered liquid retention in cake.
- Simple and economical bottom opening with 100% opening and optional butterfly valve for vertical PLF.
- Ideal for filtration of edible/non-edible oil, dewaxing, sulphur, copper, API chemicals, carbon removable, etc; closed system, no maintenance due to SS filtration mesh, low retention of oil, less occupancy of space, etc.

About the company: Sparktech manufactures, exports and sells machines & equipment for food industry.

Contact:

Sparktech, Mumbai
Tel: 022-26465920. Mobile: 09820443509
Email: amitw@sparktech.biz, sparktech@sparktech.biz

CROUZET

www.crouzet.com

OVERVIEW
PRODUCT LINES

AUTOMATION & CONTROL
MOTION
SWITCHES & POSITION SENSORS

ABOUT CROUZET

Since 1921, Crouzet has been committed to designing, manufacturing and supplying efficient components for automated systems to serve a wide range of application in the Aerospace & Defense market; in many industrial equipment markets, with a specific focus on applications such as Access control, Railway, Nuclear and Industrial valves.

Crouzet's product lines include Automation and control devices, Motion products, Switches and Position Sensors, Cockpit Controls and Electrical Protection products.

Crouzet has a heritage of close collaboration with customers in the development of adapted products of fully customized solutions.

Driven by innovation and customer satisfaction, our teams are focused on delivering the right products and services for the right application, always meeting, and often exceeding customers expectations.

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Innovista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automatedsystems.

Through its company Crouzet, InnoVista Sensors™ Offers a wide range of reliable, efficient dedicated to the Aerospace & Defense, Transportation and industrial markets and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors brings performance enhancing solutions to its customers worldwide.

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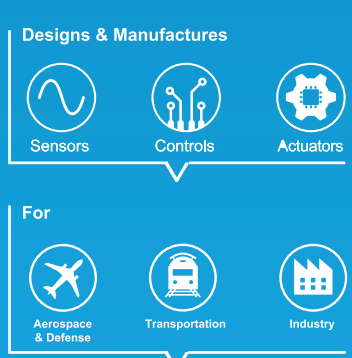


BRUSHLESS DC MOTOR WITH BUILT-IN DRIVE

All-in-one solution Ready-to-use brushless motor with integrated controller

40WATTS DIRECT DRIVE BRUSHLESS DC MOTOR WITH BUILT-IN ELECTRONIC CONTROL				
57MM SQUARE MOTOR		80140032	Connection	
	Supply voltage (V)	24VDC	Power earth	Black
	No-load speed (rpm)	2900	24V power supply	Brown
	No-load current (A)	0.2	Signal earth	Black
	Nominal speed (rpm)	2230	On/off input	Green
	Nominal current (A)	2.15	Direction input	Yellow
	Nominal Torque (Nm) Note: 1Nm = 10Kgcm 0.16	Speed setpoint	Orange	
	Speed control	0-10V (Optional PWM)	12points/rev encoder output	Brown
Built - In Holding Brake - 4096PPR Encoder / PLC Optional	Input impedance (K)	-		
	Frequency range (Hz)	150 to 1000	Encoder direction output	Red
	Weight (g)	800	Torque limiting setpoint	Blue
	Dimension (mm) Motor Length and Shaft dia X L	98 L Shaft : 8 X 25	Torque saturation output	Purple
	Type of output	PNP		

40WATTS BRUSHLESS DC GEARED MOTOR WITH BUILT-IN ELECTRONIC CONTROL						
Ø 62MM PLANETARY GEARED MOTOR	Ratios(I)	Speed (rpm)	Torque (N.m)	1 Stage	2 Stages	3 Stages
	7	311	0.9	80149616		
	46	48	5.4		X0230206	
	308	7	32			X0229816
	Supply voltage (V)			24 VDC	24 VDC	24 VDC
	Speed control			0-10V	0-10V	0-10V
Built - In Holding Brake - 4096PPR Encoder / PLC Optional	Efficiency (%)			90	80	70
	Weight (g)			1750	2150	2550
	Dimension (mm) Motor+gearbox length and Shaft dia X Length			144and 16 X 30	160 and 16 X 30	175 and 16 X 30

80watts Brushless DC geared motor with built-in electronic control						
Ø 81MM PLANETARY GEARED MOTOR	Ratios(I)	Speed (rpm)	Torque (N.m)	1 Stage	2 Stages	3 Stages
	5	627	1.1	80189704		
	27	120	5.2		80189705	
	139	23	23			80189706
	Supply voltage (V)			24 VDC	24 VDC	24 VDC
	Speed control			0-10V	0-10V	0-10V
Built - In Holding Brake - 4096PPR Encoder / PLC Optional	Efficiency (%)			80	70	60
	Weight (g)			3200	3900	4600
	Dimension (mm) Motor+gearbox length and Shaft dia X Length			182 and 19 X 40	203.9 and 19 X 40	226 and 19 X 40

AUTOMATION & CONTROL

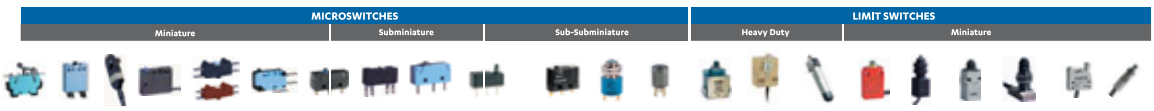
Type	Part no	Inputs	Power supply	Out put
With Display	PROGRAM LOGIC CONTROLLER			
	88970041	8 Digital(of Which 4 are analouge)	24 V DC	4*8 A relays
CD 12	88970042	8 Digital(of Which 4 are analouge)	24 V DC	4 Solid state 0.5A (of hich 1i is PWM)
	88974043	8 Digital	100 V - 240 VAC	4*8 A relays
	88974044	8 Digital	24 VAC	4*8 A relays
	88970045	8 Digital(of Which 4 are analouge)	12 V DC	4*8 A relays

GSM COMMUNICATION PLC				
em4	Part no	Description	Inputs	Output
	88981123	First all-in-one nano -PLC with GSM Communication for control & Alert functions with mobile phoned Get alerted, receive data logs or Control your application by SMS	12 Configurable Digital , Analog inputs (inc.4-20mA, NTC 4 configurable digital input for encoder (20KHZ - 60KHZ)	10 Configurable PWM and relay Out Put

CONTROL RELAYS						
Regeneration	Type	Part No	Meas. Range	Sequence/Asymmetry	O utput (S)	Casing width (mm)
With 70% Regeneration	MWG	84873022	208-480V~-50/60HZ	Yes/No	1*5 A change over	17.5
	MWU	84873023				
	MWA	84873024		Yes/5-15%		
	MWUA	84873025				

SAFETY RELAY					
Image	Safety category	Safety contacts	Supply	Part number	Type
	3	3 NO + 1NC	24 V DC	85102031	KNA3-YS

MICROSWITCHES AND LIMIT SWITCHES



	MICROSWITCHES													LIMIT SWITCHES								
	Miniature							Subminiature			Sub-Subminiature			Heavy Duty			Miniature					
Series	PBX 8324	83139	83123	V3S 83169	83106 83154	V3/V3D 83160/260 83161/261	V4S 8318	83133	V4/V4D 83170/270	V5S 8320	83141	83228 83229	83151	8384	SP4522	SP3941 SP3969	8387 8388	83589	8380	83731	SP4863 SP4816	SP4813
Max Rating @ 250 Vac (A)	10A	6A	10A	8A	16A	25A	10A	6A	12A	4A	5A	5A	5A	10A	1A	1A	10A	8A	6A	10A	1A	1A
Low Level version																						
Sealing level	IP65 IP67	IP66 IP67	IP66 IP67 IP69	IP67 IP69			IP67 IP69			IP67 IP69			Gas tight Hermetic	IP66	Gas tight Hermetic	IP67	IP66 IP67 IP69	IP66 IP67 IP69	IP65	IP66 IP69	Gas tight Hermetic	Gas tight Hermetic
Double break	Zb*	Za*			Za*			Za*						Za*			Zb*		Za*			
Bistable (maintained action)																						
High temperature (> 125°C / 257°F)						200°C 392°F		150°C 302°F	150°C 302°F		150°C 302°F	140°C 284°F	250°C 482°F		250°C 482°F	200°C 392°F					250°C 482°F	250°C 482°F
Low temperature (< -40°C / -40°F)	-50°C -58°F					-60°C -76°F					-55°C -67°F	-55°C -67°F	-55°C -67°F		-55°C -67°F						-55°C -67°F	-55°C -67°F
Direct Opening Action																						

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AS/EN 9102
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(Part 21/G & Part 145)
FAA approved
(FAR 21 & FAR 145)

Nuclear

EDF certification
RCC-E

Automotive

ISO/TS 16949

Hazardous Locations

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www.crouzet.com

www.innovistasensors.com

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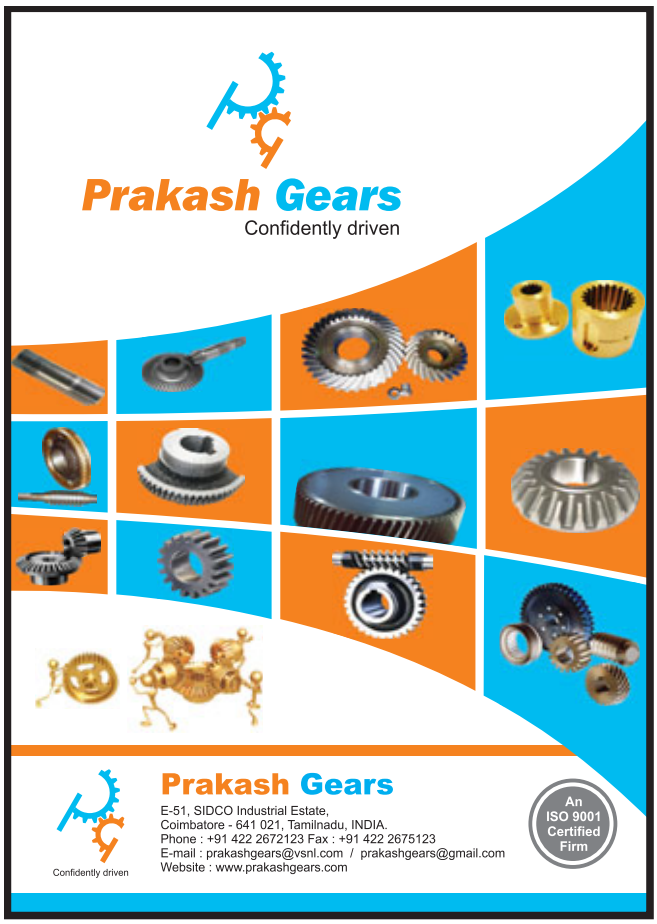


HOT FILLING CAPPING MACHINE

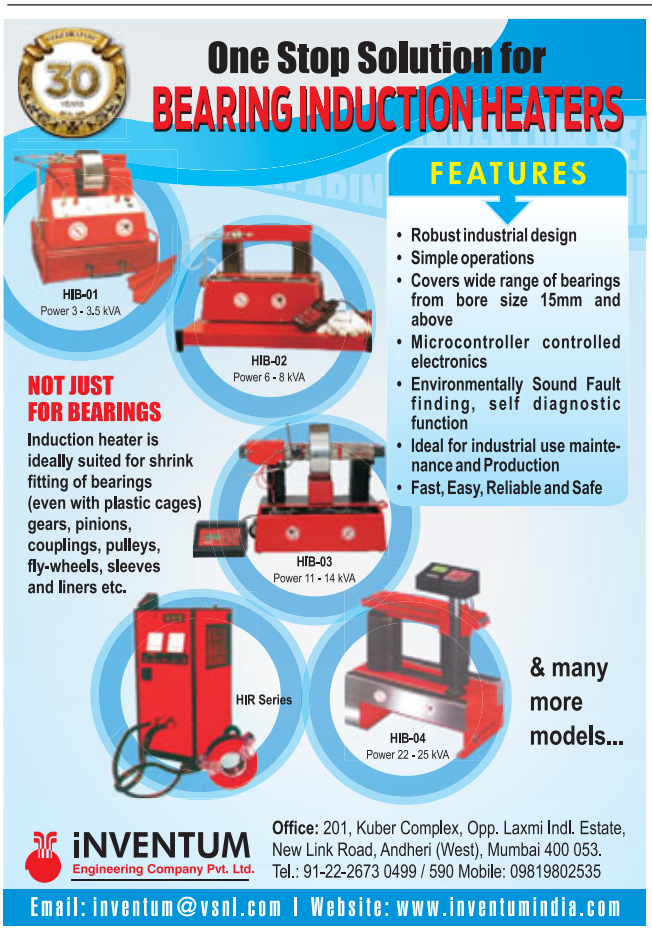
Adhi Sakthi Projects offers hot filling capping machines.

Features:

- Hot filling line is used to fill gel/ointment in containers; the system comprises base heating tank of 30 lbs capacity SS 304 with heaters.
- Base tank is provided with stirrer to keep the material homogenous; circulation pump enables constant pressure head for gravity filling.
- VFD is provided to vary the filling conveyor speed to vary filling volumes; speed of filling varies according to volume of filling.
- Residual time inside the duct may be varied with the speed of conveyor by VFD; the duct is covered with SS 304 and duly insulated with puff, with top lids.

About the company: Adhi Sakthi Projects Pvt Ltd offers products such as cosmetics plants and machines, pharmaceutical machines, packaging machines, soap and detergent plants, detergent powder plants, cutting and stamping machines and auto case packers.

Contact:
Adhi Sakthi Projects Pvt Ltd, Chennai
Tel: 044-24765162
Mobile: 09443203221
Email: cskannan@aspro.in



HEAVY DUTY HYDRAULIC TYPE PAVER BLOCK MAKING, MODEL SPM – 6

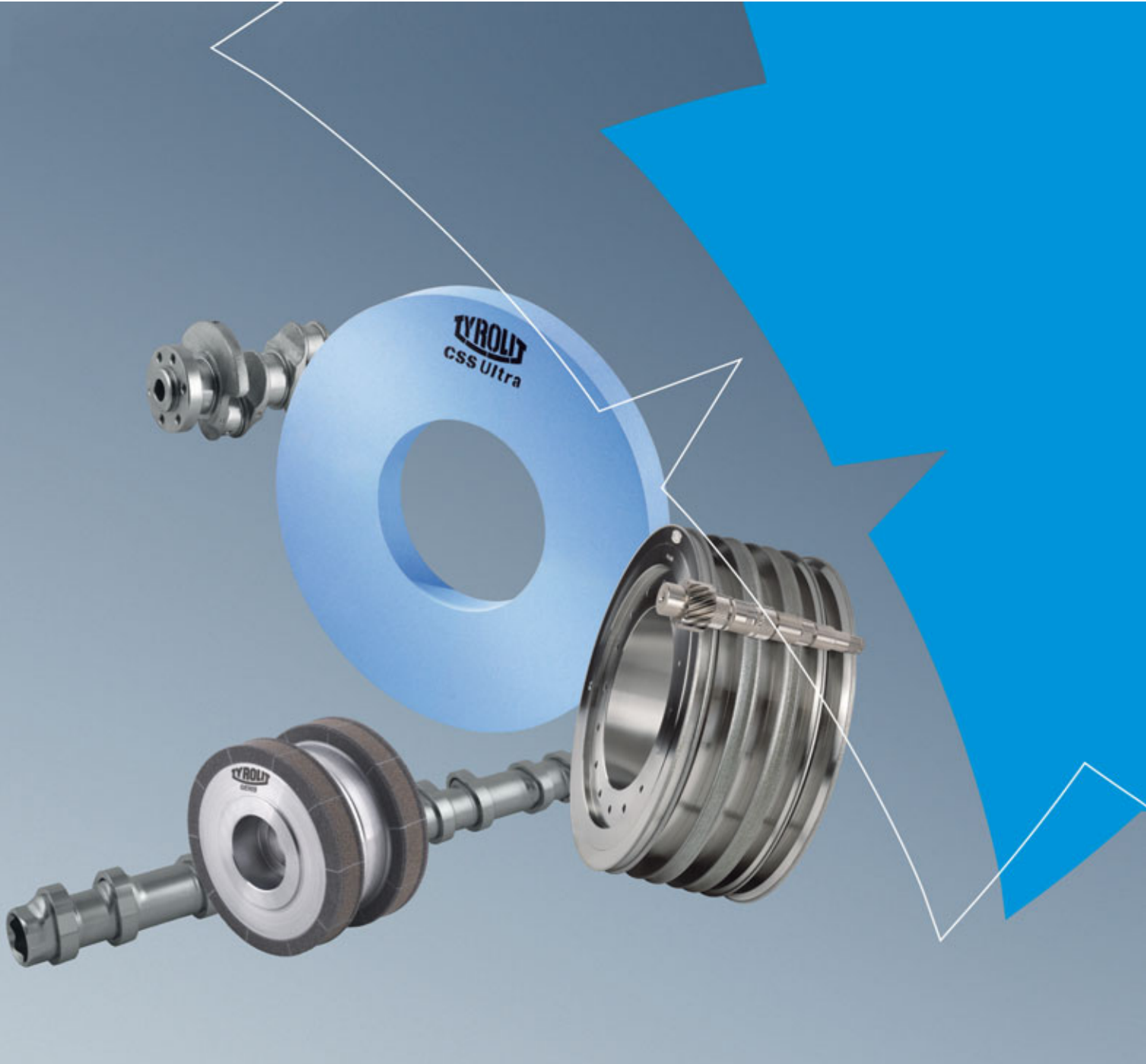
Sabin Enterprises offers heavy duty hydraulic type paver block making, model SPM–6.

Features:

- This machine makes paver blocks that are placed on the machine. The total capacity is 2880 to 3000 per 8 hours.
- The quality of the pavers is very good and they can be laid in petrol pumps, swimming pools, parking areas, courtyards, container yards, road sides, foot-paths and in many more areas.
- It has an advantage of making 3 pavers of small size at a time, and two of other paver blocks in a single shot.
- This machine can manufacture any type of paver blocks as per customer's specification, design and height. It is semi automatic.

About the company: Sabin Enterprises was established in 1993 with a view to export various construction machinery and equipment from India. It is an exporter and manufacturer of planetary mixers, precision planetary mixers, single planetary mixers, etc.

Contact:
Sabin Enterprises, Mumbai
Tel: 022-22703684, Mobile: 09820154283
Email: sabin@vsnl.com



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J R D Rubber & Plastic Technology offers cold feed rubber extruders.

Features:

- Made available in various technical specifications, this industrial cold feed extruder is primarily used for extruding cables, rubber hoses and rubber sheeting.
- JRD offers a range of cold feed rubber extruders in screw sizes 60 mm, 75 mm, 90 mm, 120 mm and 150 mm.
- Cold feed rubber extruders are used for extruding automotive and architectural rubber profiles, cables, rubber hoses, sealed stripes, rubber sheeting, etc.
- Lower operational cost as there is no warm up mill/ feed requirement with use of cold feed extruders; higher quality of rubber extruded product as the L/D ratio is higher.

About the company: JRD Rubber & Plastic Technology Pvt Ltd manufactures vacuum compression moulding machines, cold feed rubber extruders, compression moulding machines, etc.

Contact:

J R D Rubber & Plastic Technology Pvt Ltd, Delhi
Tel: 011-27234947, 27128281, Mobile: 09810121208
Email: jrdrubber@gmail.com, info@jrdrubber.com

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ANALOGUE TENSILE TESTING MACHINE

Kartar Engineering Works India provides analogue tensile testing machines.

Features:

- These machines are suitable for testing material like adhesives and tapes, rubber, wood, plywood, plastic, resins, ceramics, teflon, cardboard, latex, composites, ferrous metals and non-ferrous metals.
- Used for testing on different shapes and forms of material like round, flat, thread, wires, dumbbells, fabric, belts, strips and ropes, etc.
- They are provided with various grips, attachments and special fixtures for a variety of materials and shapes; it also has a continuous roll auto graphic 'load vs elongation' recorder and an elongation scale with least count of 1 mm.
- There are three measuring ranges for accurate testing at different straining speeds available for proper selection.

About the company: Kartar Engineering Works [India] Pvt Ltd makes KEW brand of concrete moulds and Kewil brand of material testing equipment.

Contact:

Kartar Engineering Works India Pvt Ltd, New Delhi
Tel: 011-28761646 Mobile: 09810311646
Email: kewindia@gmail.com

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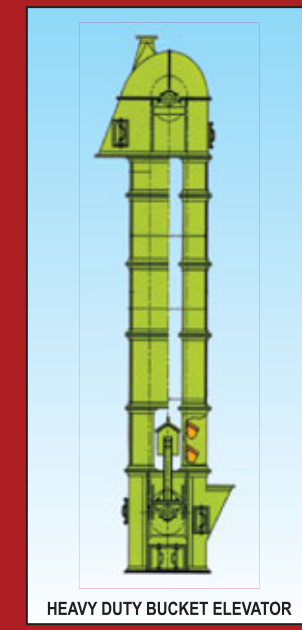
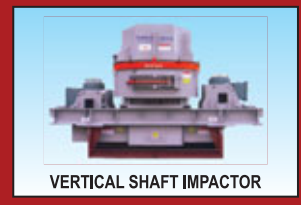

HEAVY DUTY BUCKET ELEVATOR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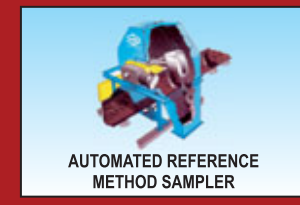
SINGLE TOGGLE JAW CRUSHER

CONE CRUSHER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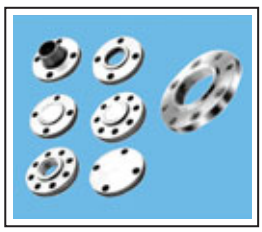
FLANGES & ROUND BARS



Steel Tubes India offers an array of flanges and round bars.

Features:

- The range includes stainless steel flanges, alloy steel flanges, carbon steel flanges, industrial carbon steel flanges and industrial alloy steel flanges.
- The flanges are designed for heavy duty industrial applications and the metals of construction have been selected for their high tensile strength and superior toughness; these flanges have precise dimensions and deliver high performance.
- The range of round bars is used in many industries such as chemicals, cement, sugar mills, distilleries, fats-fertilizers, paper, etc.

About the company: Steel Tubes (India) Pvt Ltd, established in 1992, offers pipe fittings, butt weld pipe fittings, forged steel pipe fittings, stainless steel pipes, flanges and round bars, fasteners etc. in carbon steel and low temperature carbon steel, alloy steel, nickel alloy, non-ferrous metals, etc.

Contact:
Steel Tubes India, Mumbai
Tel: 022-61432000, 23895908, 23822821
Mobile: 08764000000
Email: stindia@stindia.co.in, stindia@vsnl.com

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Features:

- Unlike manual pumps, they do not require any force for operation and unlike pneumatic pumps, they do not require any compressor or solenoid valve for their operation.
- The compact electric pump makes it possible to mount the same on a machine like any other pump.
- The specifications are 0.25 cc per stroke and pump speed of 24 rpm.
- This pump can develop a pressure up to 400 bar special pumps as per flow and pressure requirement are available.

About the company: Systematrix Engg Services was formed in 1990 and is a manufacturer, supplier and exporter of centralised lubrication systems, storage lubrication systems, industrial lubrication systems and steel industries lubrication system.

Contact:
Systematrix Engineering Services, Mumbai
Tel: 022-40111258 Mobile: 09821166438
Fax: 022-67706077
Email: lubrisys@hotmail.com

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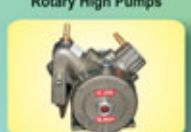
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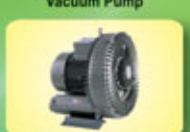
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ABRASION TESTING MACHINE

Rupson Industries offers abrasion testing machines.

Features:

- This abrasion testing machine, conforms to specifications and tolerance in accordance to IS 2386 part IV, for determination of resistance to wear by small size coarse aggregate and crushed rock.
- The machine consists of a hollow drum mounted on a sturdy frame on a ball bearing; a detachable shelf which extends throughout the inside length of the drum catches the abrasive charges and does not allow anything to fall on the cover.
- Complete with abrasive charges, it consists of 12 hardened steel/cast iron spheres approx 48 mm in diameter and weighing between 390 to 445 gm.

About the company: Rupson Industries, started in 1975, manufactures a range of soil testing instruments, meteorology equipment, bitumen, petroleum and mineral oil testing instruments, cement, concrete and aggregate testing instruments, rock and strength of materials testing instruments and laboratory appliances.

Contact:
Rupson Industries, New Delhi
Tel: 011-23512093, 23677774, Mobile: 09278989896
Email: vijayrupson@rediffmail.com

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FLEXO PRINTER WITH SLOTTER

Samrat Engineering Works offers flexo printers and slotter machines.

Features:

- The offered item is outlined with the help of finest-grade material and plastic under the visionary supervision of able specialists.
- All the drive gears are skewed tooth; it adopts high frequency quenching; part of them are cementite treated.
- After milling, grinding and sprinkle lubricating, the driving precision and using life are greatly improved; the mainframe, blower, phase motor, etc, adopt transducer control; the speed adjusting is steady, and it can save electricity and it is correct and reliable.
- Each set has emergency stop switches, which can ensure the safety of the operators; automatic stacker (optional).

About the company: Incepted in 1977, Samrat Engineering Works is one of the trusted names engaged in the manufacturing, exporting and supplying of heavy duty cutting machines.

Contact:
Samrat Engineering Works, New Delhi
Tel: 011-45596876, 28116814, 28113553
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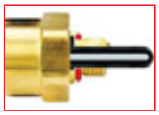

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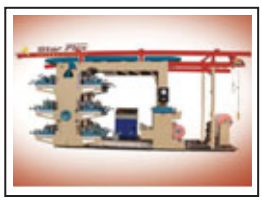

Star Flex International offers PP/ HDPE sack printing machines, roll to roll type.

Features:

- The woven sack printing machine satisfies with high production performance; the simplified controls of this powerful super speed machine makes it easy to operate and provide high quality output.
- The machine is ideal for mass printing of materials that includes PP/ HDPE sack.
- Ribbed anti vibration cast iron (CI) body for vibration free printing at high speed; AC digital frequency drive; infeed and outfeed system provided to maintain tension and good registration.
- Helical gears for smooth running and long life; newly designed wind tunnel with a drying system for high speed operation; quick changeover of plate cylinder to reduce the down time.

About the company: Star Flex International is a manufacturer of flexographic machines of high quality and excellent efficiency.

Contact:

Star Flex International, New Delhi
Tel: 011-28765588, 43563747, Mobile: 09310307888
Email: info@starflex.co.in, starflexo@hotmail.com

POWER TRANSFORMERS

TMA International offers power transformers.

Features:

- Electromagnetic induction produces an electromotive force within a conductor which is exposed to varying magnetic fields.
- Transformers are used to increase or decrease the alternating voltages in electric power applications.
- A varying current in the transformer's primary winding creates a varying magnetic flux in the transformer core and a varying field impinging on the transformer's secondary winding.
- This varying magnetic field at the secondary winding induces a varying electromotive force (EMF) or voltage in the secondary winding due to electromagnetic induction.

About the company: Known for trading and exporting of an extensive array of the premium quality of mechanical products and accessories, TMA International started its operations in 1983. Inclusive of steel strips, cold rolled steel sheets and galvanised steel strips, the company offers a wide range of metal products in various sizes, designs and thicknesses.

Contact:

TMA International, New Delhi
Tel: 011-46540506, 46540606, Mobile: 09873938066
Email: tma@airtelmail.in

TROUGH TYPE VACUUM FILTERS

Veeraja Industries offers trough type vacuum filters.

Features:

- These filters can be used in support with disposable/ back-washable media and can be made available in different filtration capacities of 50 l/min to 300 l/min.
- Some of its features include: low maintenance; totally automatic operations; compact design; ideally suited for individual machines; application in areas like steel grinding, honing, lapping; high productivity.
- Simple operation and easy maintenance; suitable for finer filtration; paper consumption drops by 80%; can be used with disposable and back-washable media; without conveyor.
- Totally automatic operation; very compact design; ideal for individual machines; can be customised to suit requirements.

About the company: Incepted in 2003, Veeraja Industries is engaged in the field of coolant filtration and filtration equipment such as industrial agitators, filter cartridges, industrial stirrers, flat bed pressure filters.

Contact:

Veeraja Industries, Pune
Tel: 020-25291229, 25294477
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POWDER BLENDER

Zeutech Engineers offers powder blenders.

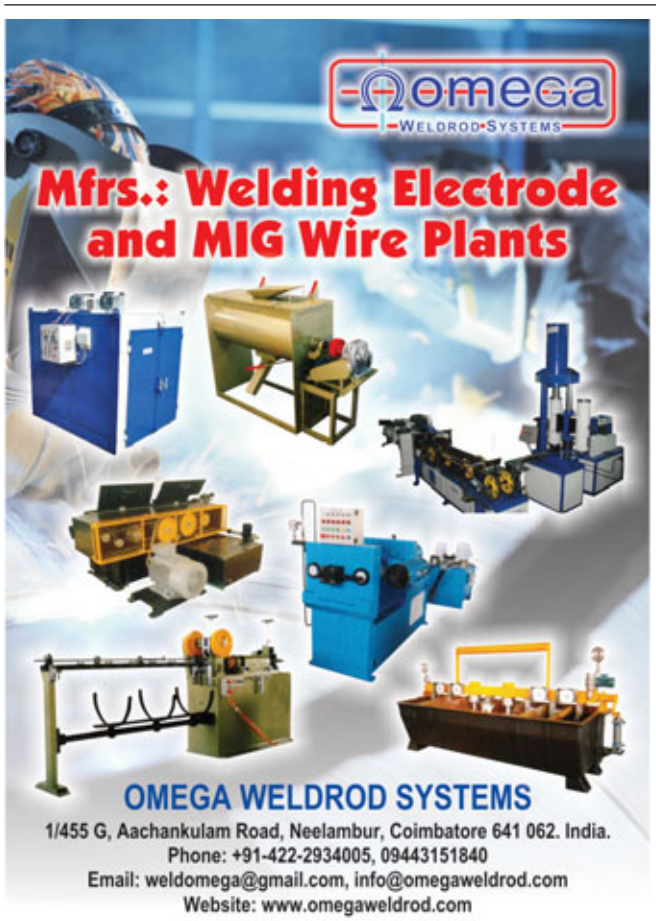
Features:

- Powder blenders save time by reducing re-circulation requirement; their high shear rates reduce blend times and ensure consistent product result.
- Zeutech powder mixer provides quick, high-performance blending of wet and dry ingredients into a fluid stream.
- Consists of proven pump and blender system that is convenient to use, efficient, saves time and reduces the hardship.
- The liquid ring pump creates consistent suction at the bottom of the funnel to prevent it from being plugged and maintains powder rate, as viscosity increases.
- The rotor – stator design of the shear pump eliminates unblended products and prevent lumps and masses for consistent batch to batch repeatability.

About the company: Incepted in 1990, Zeutech India Pvt Ltd offers a range of hygienic pumps, industrial pump equipment and dairy equipment.

Contact:

Zeutech Engineers Pvt Ltd, Pune
Tel: 020-27130909, 27130647
Mobile: 09823020660, 09370011583
Email: zeutechpumps@gmail.com



INDUSTRIAL OVENS CONVEYOR

Prime Precisions offers industrial oven conveyors.

Features:

- These consist of various zones wherein same temperature can be provided in the zones along the path of the belt.
- Curing conveyor oven operates in a continuous manner; the curing oven chamber is divided into two individual zones of control, to allow more flexibility for the process requirements.
- The oven is used to cure silver epoxy or encapsulant on an aluminum product used in the manufacturing of capacitors.
- The oven utilizes a 1'-8" conveyor extension on the entrance of the oven and a 1'-5" conveyor extension on the exit end of the oven for loading and unloading product.
- The conveyor belt is 32" wide and product is loaded in rows, three wide, across the width of the belt.

About the company: Prime Precisions is engaged in manufacturing and exporting a precision range of material handling equipment and allied components.

Contact:

Prime Precisions, Coimbatore
Mobile: 09677737122, 09842937122
Email: sales@primeprecisions.com

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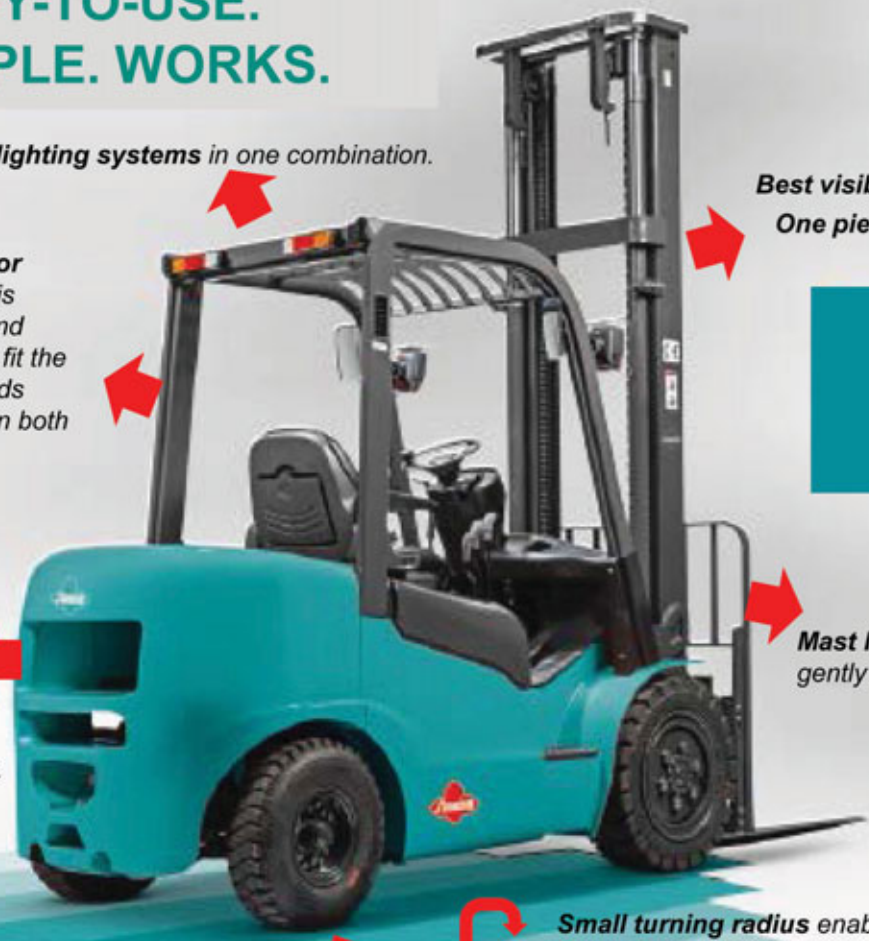

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AUTOMATIC BISCUIT MAKING PLANT

Ultra Worldwide offers automatic biscuit making plants.

Features:

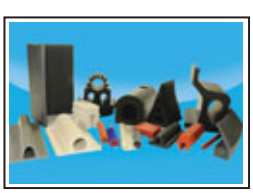
- This machine is required to make and cut biscuits in to the desired shape from dough sheet supplied by the sheeters/gauge rollers.
- The dough sheet is made out of fermented dough or soft sweet dough; powered by twin cutting roll system where one is used for printing and other for cutting, for uninterrupted and top quality production with option to use one or both cutting rolls.
- In double roll cutting machine the upper surface of the biscuit remains more smooth and leveled, compared to the single cutting roller unit.
- Also, the production remains uninterrupted because of no die choking; damping and scraping/cleaning of cutting web as standard; air blowers between gauge rolls and before cutting (optional).

About the company: Ultra Worldwide Pvt Ltd is known as one of the leading manufacturers and exporters of food processing and other allied machines.

Contact:

Ultra Worldwide Pvt Ltd, Mumbai
Tel: 022-23481424, Mobile: 09821064899
Email: ultra_international@vsnl.com

EXTRUDED RUBBER CORD



V H Polymers offers a wide range of extruded rubber cords.

Features:

- High temperature resistance (-50C to +300C); excellent resistance to oils, fuels, lubricants, and most mineral acids.
- Excellent resistance to corrosive fluids compared to other polymers; excellent resistance to atmospheric oxidation, sun and weather; excellent resistance to fungus and mould; extremely low permeability to a broad range of substances.
- Resists many aliphatic and aromatic hydrocarbons; excellent compression set values at high temperatures; resists degradation by over 300 fluids.
- Good electrical properties in low voltage, low frequency; retains good mechanical properties at high temperatures; good mechanical strength over repeated flexing.

About the company: Established in 1981, V H Polymers is engaged in manufacturing and exporting a wide range of molded rubber components as per given requirements.

Contact:

V H Polymers, Mumbai
Tel: 022-23447285
Mobile: 09821244999, 09819929304
Email: response@vhpolymers.com

SHEET PASTING MACHINE, CORRUGATED

SRG International offers a wide range of corrugated sheet pasting machines.

Features:

- These machines are used to apply glue on the tip of the corrugation sheets for making a different ply.
- Sheet pasting machine comprises 3 rollers, which are smoothly finished for ensuring even lamination of boards.
- Provided with hard chrome rollers with these machines for improving the quality, long life of the machine and to ensure gum crushing.
- The machine is simple in design and easy to operate which ensures smooth finish and working; hand fed sheet pasting machine is useful for gluing fluted side of board for making 3, 5, 7 ply corrugated board.

About the company: SRG International Pvt Ltd, established in 2005, is active in the domain of manufacturing, supplying, exporting and retailing prefabricated structure, cold room and stainless steel products, etc.

Contact:

SRG International Pvt Ltd, Faridabad
Tel: 0129-4069216
Mobile: 09811984444
Email: srgprefab@gmail.com, info@srginternational.in

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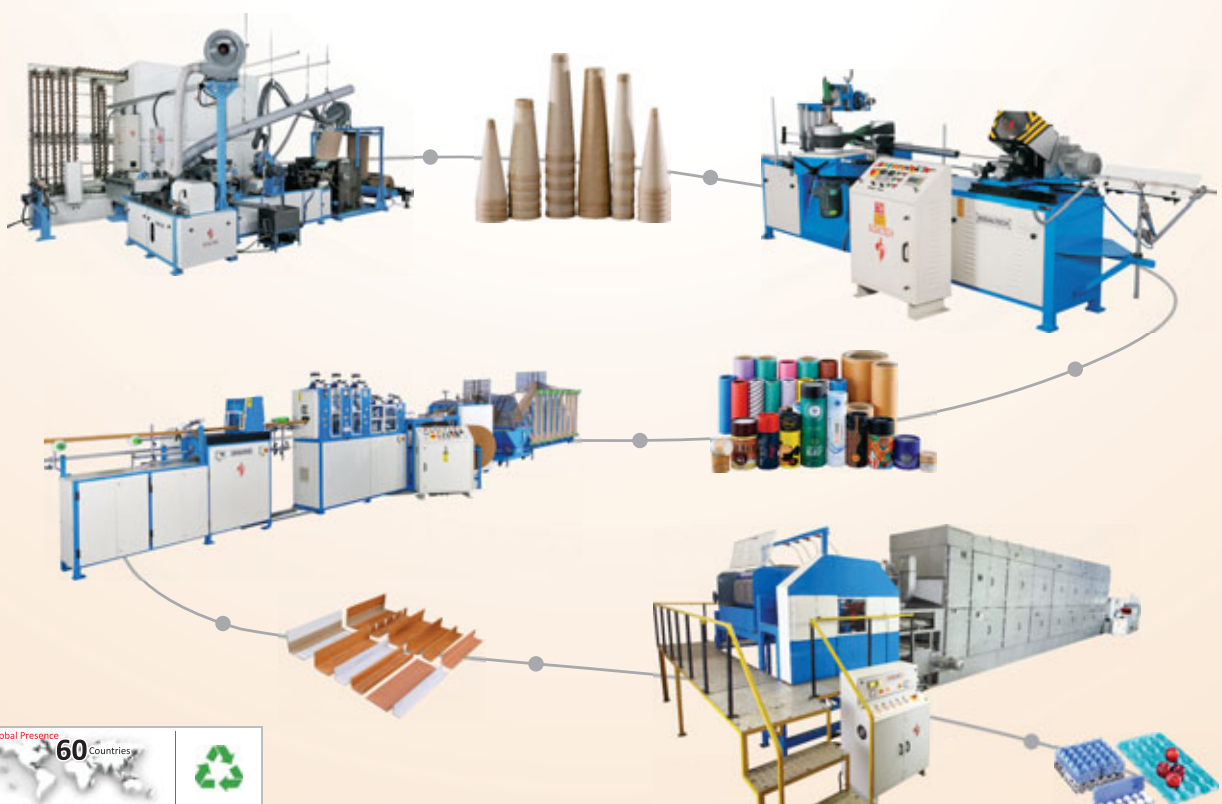

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PPR INSERTS

Air Grip Group of Companies offers PPR inserts.

Features:

- The inserts are available with diamond, straight or unidirectional knurling; key advantages: in such cases the length of insert is very important for proper closing of moulding die.
- Inserts available as per class 2B ANSI/ASME B1.1 and conforms to ISO metric 6H thread standards; inserts with collar series provide options to use flange to make electric series with opposing diagonal knurls provide excellent torque resistance.
- Length maintained for such inserts within a tolerance of 0.05 mm; thread size starts from M16 to M50, BA, BSW, BSPT, BSF and American threads like UNC, UNF, UNEF, and NPT are also available as per custom requirements; etc.

About the company: Airgrip Group is a medium to high volume, brass products supplier which also produces precision components, brass turned parts, shrew machine parts and fasteners, including sub-assemblies to specific drawing tolerances.

Contact:

Air Grip Group of Companies, Jamnagar
Tel: 0288-2730001
Email: sales@airgrip.co.in, sales@airgrip.in

ULTRASONIC CONCRETE TESTER

Index Engineering offers ultrasonic concrete testers.

Features:

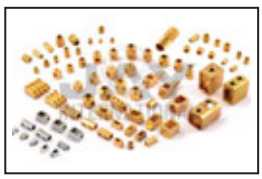
- Remote hold facility makes single man operation feasible; facility for viewing received waveform on CRO; no adjustment before or during each reading.
- Gives reading directly in microseconds with positioned decimal nominal 3 prr and 30 prr switch selected rate; display – four digit seven segment display with LED over-range indication.
- Time measurement – 0.1 to 999.9 microseconds in single range with least count of 0.1 micro seconds throughout.
- Standard probe – 150 khz approx resonant frequency; dimensions – 230 (L) x 130 (H) x 280 (D) mm (basic unit); weight – 3 kgs (approx) excluding battery; ambient temp range – 0°C to 45°C.

About the company: Index Engineering Co makes a comprehensive assortment of industrial equipment such as testing and engineering equipment and surveying instruments.

Contact:

Index Engineering Co, Indore
Tel: 0731-2544254 Mobile: 09425057910
Email: info@indexengineering.com

PLASTIC MOULDING INSERTS



Jay International provides plastic moulding inserts.

Features:

- Full line of brass inserts offered for all methods of installation, including: ultrasonic, heat, thermal, predd-in and mould-in; these parts are used in switch contacts, moulding inserts, modular switches, MCBs, MCCBs.
- Brass inserts produced as per custom design and specifications; standard series of threaded inserts such as straight hole, blind (closed bottom), collar inserts, ultrasonic, press in, tri slotted inserts, etc., available.
- Collar series inserts provide options to use flange to make electric contact; ultrasonic series thread inserts having opposite diagonal knurls provide excellent torque resistance; vertical undercuts in tri series provides superior tensile strength; straight, diamond, opposite diagonal, etc. are the knurling options available to give solid gripping to moulding applications.
- Blind thread or closed bottom inserts prevent plastic from entering the bottom of the insert.

About the company: Established in 1965, Rupam Group of companies is a manufacturer and exporter of brass components for electrical industries specially for switchgear and energy meters.

Contact:

Jay International, Jamnagar
Tel: 0288-2560565 Fax: 0288-2560560
Email: jaydhirajcorp@yahoo.com , info@jaybrass.in

DUST FUME EXTRACTION SYSTEMS

Wollaque Ventilation & Conditioning offers high quality dust fume extraction systems.

Features:

- These systems are manufactured under the guidance of ingenious professionals using the finest grade components with the help of contemporary techniques as per the international norms of quality.
- The systems provided are broadly known for their anti-corrosive nature and robustness.
- Excellent performance; energy efficient; rust resistance; low maintenance.

About the company: Established in 1995, Wollaque Ventilation & Conditioning Pvt Ltd is engaged in designing and manufacturing of air pollution control equipment, industrial ventilation equipment and other related systems.

Contact:

Wollaque Ventilation & Conditioning (P) Ltd, Noida
Tel: 0120-3021945 Mobile: 07053126570
Fax: 0120-3021948
Email: wvcl@hotmail.com

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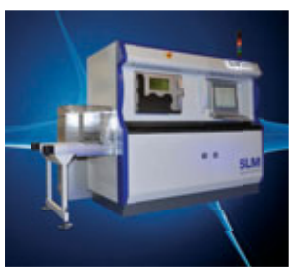

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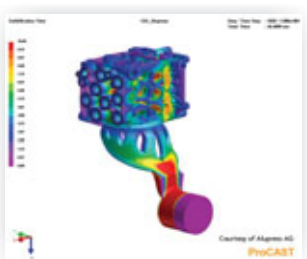

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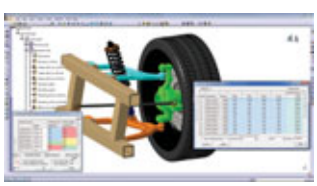

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DOUBLE HELICAL GEARS

Ashoka Gears offers double helical gears.

Features:

- These gears can bear high torque; they possess similar advantage and smoothness like single helical gear.
- Double helical gears are very useful in marine industry and heavy equipment manufacturing marine gears boxes, rolling mills, steel rolling mills and other heavy industries.
- Two gears of the same type are stacked together and make it one; most double helical gears come in cylindrical form.
- It has two sections of teeth which are simply referred to as the left hand and the right hand.

About the company: Ashoka Gears is a manufacturer of components for industries such as cement, sugar, steel re-rolling mills, turbine plants, steel, power, mining (gold, coal, mineral), fertilizer, sponge iron, paper, material handling equipment, earth moving equipment, handling equipment and various other OEMs (original equipment manufacturers).

Contact:

Ashoka Group, Noida
Tel: 0120-4252305 Mobile: 09811141400
Email: ag@ashokaengineering.com

POWDER COMPACTION DIES

Electronica Tough Carb offers powder compaction dies.

Features:

- These powder compaction dies exhibit superfluous resistance and endurance due to which they are in high demand.
- Cavity finish and alignments of punches, core rods are maintained perfectly in order to load on press machines; temperature resistant; enduring; corrosion resistant; abrasion resistant.
- Used for hard metal; ceramic; powder metallurgy; magnet; refractory; pharmaceutical sectors.

About the company: Electronica Tough Carb Ltd is a group company of SRP Electronica and was incorporated in 2008. It is a manufacturer, exporter and supplier of tungsten carbide products. The company has established an in-house metallurgical and chemical laboratory as an integral component of its manufacturing unit. ETCL's products are widely used in various applications of wear, metal cutting, and metal forming, powder metallurgy, wear parts for oil and gas industry, and mining.

Contact:

Electronica Tough Carb Ltd, Nashik
Tel: 02551-230221 Mobile: 09011089813
Email: enquiry@toughcarb.com, skanore@toughcarb.com

SOLAR CHARGE CONTROLLER

Jadhav Powertech offers a wide range of solar charge controllers.

Features:

- Charge controllers, which protects battery from over charging and for excessive discharge are the essential components of solar PV systems.
- These are professional solar charge controllers, using the most innovative and state-of-the-art charge controllers, which protect battery from over charging and/or excessive discharge.
- Protection from module reverse current flow, reverse battery and overflow, short circuit, under and over voltage; overcharge, deep discharge; reverse polarity and lighting protections are incorporated in the electronic control card.
- Nominal system voltage – 12V/24V DC; charging current – 6A/10A; charge control efficiency > 95%; idle consumption < 5 mA; excellent charging algorithm.

About the company: Jadhav Powertech is engaged in manufacturing and supplying high end electronic equipment.

Contact:

Jadhav Powertech, Nashik
Tel: 0253-6619919 Mobile: 09096870007
Email: jadhav_powertech@rediffmail.com

PUMP, PLUNGER TYPE (MP-I0)

Mini Max Pumps offers pumps, plunger type (MP-I0).

Features:

- High pressures of 98 kg/sq cm; steady state metering accuracy of +/-1 % of pump output; single setting of stroke from 10%-100% by interlocking mechanism.
- High flow rates of 0-10,000 liters/hr; simplex and multiplex arrangements of pumps with common drive available for universal use.
- Easily compatible with most of the fluids; positive return of plunger and variable stroke mechanism allows linear relationship between control stroke setting and stroke length; reproducibility (repeatability) better than + /-2.5% of set point; low NPSHR requirement.

About the company: Mini Max Pumps makes hi-tech pumps and associated systems. These are provided in different operating configurations so as to perfectly match up with multiple working needs. The range includes plunger type pumps, hydraulic actuated diaphragm pumps, hydraulic actuated pumps, mechanically actuated pumps, med pumps, screw pumps, etc.

Contact:

Mini Max Pumps, Nashik
Tel: 0253-6649383 Mobile: 09130022891
Email: minimaxpumps@gmail.com

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TOP MOUNTED ENTRY STIRRER

Noble Procetech Engineers offers top mounted/top entry stirrers.

Features:

- Used for mixing, emulsifying, homogenising, dispersing and disintegrating of solids, precision construction standards for mixers that allow cutting processing times; available from 5 to 10,000 ltr capacity; creates stable emulsions and suspensions; helps in reducing particle size and achieving rapid dissolving of solids; supports acceleration of reactions.
- Application for mixing slurry/solvent and solids; capacity – up to 10 tons; type of blades – propeller, cutter, V-shape, U-shape; motor hp – up to 25.0 hp/ available in flameproof and non flameproof version; extra accessories – VFD.
- Control panel, timer, gear box/available in flameproof and non flameproof version; MOC - contact parts – SS 304, SS 316, SS 316 L, alloy 20, hastelloy C.

About the company: Noble Procetech Engineers, established in 2007, manufactures a comprehensive assortment of process equipment and systems.

Contact:

Noble Procetech Engineers, Nashik
Tel: 0253-6612267, Mobile: 09172211562
Email: response@meteringdosingpump.com

DIAPHRAGM PUMPS, MECHANICAL ACTUATED

Unique Dosing Systems offers mechanical actuated diaphragm pumps.

Features:

- Designed to be used for low capacity and low pressure; it has PTFE coated diaphragm which is motor driven.
- It is ideal for continuous duty applications and extensively used for handling corrosive fluids; the mechanically linked diaphragm is driven with the help of motor; the operational accuracy is up to + 3%; the repeat ability accuracy is +3%; the pump is suitable for continuous operation while handling most corrosive liquids.
- The diaphragm is coated using PTFE material and is supported by steel core and temperature resistant material.

About the company: Incepted in 2003, Unique Dosing Systems is a manufacturer and supplier of a vast array of standard and customised positive displacement pumps and testing systems.

Contact:

Unique Dosing Systems, Nashik
Tel: 0253-6695341
Mobile: 09822420535
Email: info@uniquedosing.com, sales@uniquedosing.com

MILLING MACHINE (KNEE TYPE)

Ess Kay Lathe company provides knee type milling machines.

Features:

- Known for its compact design, this machine is easy to handle as well as to maintain; the varied accessories and components of the machinery are made up-of high grade raw material like cast iron, stainless steel, etc.
- Rigid spindle housing; ribbed high graded cast structure; one shot lubrication system; exceedingly low operation noise; cross ribbed box type column structure; hardened and ground gears, spindle and shaft.
- Rigid over arm makes over arm brace superfluous; robust and large front bearing on spindle; power operated feed and rapid trousers (only in 'A' series); minimum wear feature achieved by shaft and gear design.
- Wide range of spindle speeds and feeds facilitate every need of industry; machines are designed according to the international standards.

About the company: ESS Kay Lathe Company manufactures a range of lathe machines.

Contact:

Ess Kay Lathe Company, Batala
Tel: 01871-242575
Mobile: 09216220475
Email: info@esskaylathemachines.com

COPPER ROD (OXYGEN FREE)

Shera Energy offers high quality copper wires and stripes like O2 free copper wire rod.

Features:

- These rods are used in many industries related to cement, construction, shipbuilding and many other commercial industries for various applications.
- These rods are manufactured using optimum quality raw material which gives quality and reliability assurance of these copper wires.
- These products are used as anodes in the electrical industry for paneling, electrification lines, earthing, etc.
- Available in sizes – 8, 12.5, 16 and 20 mm; available in different grades and dimensions; resistive against rust and corrosion; durable and reliable; highly malleable; excellent tensile strength.

About the company: Shera Energy Pvt Ltd manufactures a wide array of products such as aluminium enamelled wires, bare aluminium wire, bare aluminium strips, copper paper covered wires, bare copper wire, fibre glass copper covered strips, copper paper covered strips, fibre glass covered wires, etc.

Contact:

Shera Energy Private Limited, Jaipur
Tel: 0141-2330056 Mobile: 09314434116
Email: piyush@sheraenergy.com, geet@sheraenergy.com

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UNIVERSAL MATERIAL TESTER

Edutek Instrumentation offers a professional universal material tester.

Features:

- This material tester is a bench top unit for training purposes; simple operation and robust construction make the unit suitable for student experiments; the test spectrum for the basis unit covers tensile tests, and also Brinell hardness testing.
- Using the accessories that are also available, additional bending, shear, cupping and compressive tests can be performed; PC data acquisition and evaluation is also possible; the basic version of the unit does not require any additional sources of power.
- The test load is generated using a hand operated hydraulic system; the test load is displayed using a large gauge and a trailing pointer.
- The elongation of the test specimen is recorded via a mechanical gauge; the unit features a clear layout and the rapid changing of accessories.

About the company: Edutek Instrumentation manufactures quality tested and reliable lab glassware, lab apparatus and scientific instruments.

Contact:

Edutek Instrumentation, Ambala
Tel: 0171-4006100, Mobile: 09996644855
Email: edutekgroup@gmail.com

SHELL AND TUBE HEAT EXCHANGERS

Rex Heat Exchanger offers high quality shell and tube heat exchangers.

Features:

- Mostly used in higher-pressure and higher temperature applications; these type of heat exchangers have two divisions -shell and tubes.
- One fluid runs through the tubes, and another flows over the tubes (through the shell) to transfer heat between the two fluids.
- For this purpose seamless/ERW or rolled pipes are used for shell and seamless tubes are used for tubes.
- The shell and tube heat exchangers design process contains two parts – thermal and mechanical design.

About the company: Rex Heat Exchangers is a manufacturer and exporter of heat exchangers. Tubes, tube sheets, shells, baffles and fins of heat exchangers are made out of various custom required material and TEMA standards like seamless or ERW tubes and shells in copper aluminum, brass, mild steel, cupro nickel, aluminium brass and stainless steel, etc.

Contact:

Rex Heat Exchanger Pvt Ltd, Vadodara
Tel: 0265-2351643 Mobile: 09974176693
Email: response@rexheatexchanger.com

THERMOCOUPLES

TRE 'C' s r l offers a wide range of thermocouples.

Features:

- The polarisation and intensity of the electromotive force generated depends solely on the type of the two metals forming the thermocouple.
- For a given temperature, the thermocouple measuring process is necessary that the junction is at a given temperature (usually 0°C), so that the current loop generated depends solely on the temperature of the hot junction.
- The temperature range in which the thermocouple may operate or maximum operating temperature, voltage supplied, depend on the materials from which the thermocouple is made.
- Thermocouples are temperature sensors with low cost. Advantages in the use of thermocouples: ability to measure a wide temperature range (around 2000°C), possibility of use of materials resistant to different environmental conditions.

About the company: Founded in 1963, TRE 'C' manufactures immersion electric heaters for primary national and foreign industries.

Contact:

Via Cuneo, 10/12, Italia
Tel: (39) 02 2132078, 02 2137541
Email: commerciale@tre-c.it

HGF MOTORS

Weg Electric offers a wide range of HGF line motors.

Features:

- Rated output – 90 kW to 3150 kW; number of poles – 2, 4, 6, 8, 10 and 12; frame sizes – 315 to 630; frequency – 50 Hz; voltage – 380 to 6600 V; service factor – 1.00; insulation – class F (ΔT = 80K); degree of protection – IP55.
- Mounting – B3; cooling method – TEFC - IC411; enclosure material – FC-200 cast iron; fan cover – FC-200 cast iron for frames up to 400 and steel for frames 450 and above; fan – aluminum for frames up to 500 and steel constructed for frames 560 and above.
- Terminal box – FC-200 cast iron; accessories terminal box – FC-200 cast iron; vibration – grade A; balancing with half key; drain – automatic plastic plug.

About the company: Weg Electric initially produced electric motors in 1980. It has expanded its activities, making electrical and electronic parts, products for industrial automation, power and distribution transformers, liquid and powder coatings and electrical insulating varnishes.

Contact:

Weg Electric (India) Pvt Ltd, Bangalore
Tel: 080-46437450
Email: info-in@weg.net

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CENTRIFUGAL BLOWERS (Single Inlet)

Impeller Size: Ø120-30mm to Ø280-115mm
Air flow: 140M³/hr to 2750M³/hr

Areas of application:
Plastic Extrusion Machines
Forced Cooling
Gas Burners
Repro Graphic Printing
Xenon Lamps

CENTRIFUGAL FANS

Fans Size: Ø190mm-45mm to Ø400mm-100mm
Airflow: 300M³/hr to 3100M³/hr

Areas of application:
Booster Fan
Welding Fume Removal
Spot Ventilation
Equipment Cooling
Smoking Areas Exhaust
General Ventilation
Dust Booster

CENTRIFUGAL BLOWERS (Double Inlet)

Impeller Size: Ø133-180mm to Ø240-280mm
Air flow: 850M³/hr to 4400M³/hr

Areas of application:
Clean Air Cabinets
Data Processing Machines
Roto Graphics Printing machines
Plastic Extrusion Machines

AXIAL FLOW FANS

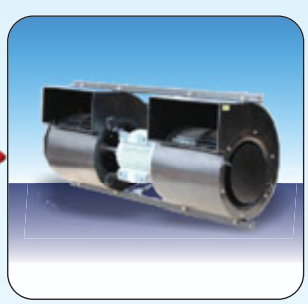
Size: Ø200mm to Ø630mm
Air flow: 700M³/ hr to 11000M³/hr

Areas of application:
Welding Transformers
Rectifiers
Electronic Equipments
Control Panels
Deep Freezers
VFD Motors
Condenser Cooling

FLAME PROOF DUAL INLET BLOWER

Impeller Size:
Ø180 to 225 mm

Areas of application:
Panel Cooling,
Air To Air Heat Exchangers,
Infra red heater



EC/DC AXIAL FANS AND BACKWARD CURVE FANS

Fan Size: Ø190mm to Ø355mm
Air Flow: 570M³/hr to 3500M³/hr

Areas of application:
Clean Room Equipments
Ventilation Equipments
Control Panels
Telecommunication Equipments

INLINE DUCT FANS

Inlet Size: Ø100mm to Ø400mm
Air flow: 300M³/hr to 4200m³/hr

Areas of application:
Booster Fan
Spot Ventilation
Welding Fume Removal
Equipment Cooling
Humidity and Moisture Removal
Smoking Area Exhaust
Conference Room Exhaust
General Ventilation
Warm Air Transformers
Dust Booster
Residential Kitchen Exhaust
Locker Room Exhaust
Bath Room Exhaust

AXIAL FAN WITH ALUMINIUM CASING

Fan Size: Ø200mm & Ø250mm
Air flow: 1020M³/ hr to 1900M³/hr
Static Pressure:
160(pa) to 200(pa)

Areas of application:
Ventilation
Smoke Exhaust
Control Panels
Rectifiers
Condenser Cooling

Regd. Office & Work: B-234, 5th Main, 2nd Stage, Peenya Industrial Estate, Bangalore-560 058.
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WEIGHT REDUCTION MACHINE

Devrekha offers weight reduction machines and dye weight reduction machines.

Features:

- Low tension volumetric soft nozzle; totally tangle free operation with the help of angular design nozzle and fully flow square pipe; excellent and even reduction with low tension and perfect rinsing system.
- Moderate and auto control liquor ratio; PLC based automation with graphical display and PID control (if required); digital level controlling system for accurate control dozing.
- Fully automatic and semi automatic version available; stirrer mechanism in caustic addition tank; easily removable filter and heat exchanger.
- Low temp – up to 90°C (max); vessel made by SS 316 L; PLC base automation with graphical display and PID control.

About the company: Devrekha is engaged in the manufacturing and exporting of textile dyeing machinery and was established in 1982.

Contact:
Devrekha, Surat
Tel: 0261-2398881, Mobile: 09825148738
Email: info@devrekha.com

COPPER FLEXIBLE CONNECTORS, FLAT BRAIDED

Nana Udyog offers flat braided copper flexible connectors.

Features:

- Flexible connectors are normally supplied in non-insulation design but on request, it can be supplied with insulation sleeves of heat-shrink, silicone, PVC, fibreglass, etc.
- Flexible connectors are manufactured using multi-layered braids up-by-up or side-by-side to increase the current carrying capacity.
- This can be supplied from 250 amps to 4000 amps catering to bus duct, switchgear, and generator manufacturers.
- Ranges – 1 mm^2 to 4000 mm^2; current capacity – 250 amps to 4000 amps; insulation sleeves of heat shrink, silicone, PVC, fiberglass.

About the company: Nana Udyog is a manufacturer and exporter of different types of copper flexible braids, tapes and connectors for electrical, electronics and automobile sectors. It is an ISO 9001:2008 certified company and is known for providing high quality wires.

Contact:
Nana Udyog, Surat
Tel: 0261-2481644 Mobile: 09825965003
Email: info@nanaudyog.com, kk_nana@yahoo.com

AIR EJECTOR

Hemant Industries offers a wide range of air ejectors.

Features:

- Meant to improve efficiency of men who work in hot areas or where noxious gases are present, areas where electrically operated exhaust equipment cannot be used.
- Helps evacuate the confined atmosphere gases/fumes, etc.; to purge a vessel; to use in ducts/flexible ducts.
- No moving parts; ideal for venting in hazardous areas; maintenance free; high static pressure capabilities; high volume discharge.
- Aluminum inlet housing; sturdy galvanised steel or aluminum diffuser and even FRP lined; light weight construction.
- To dilute the general atmosphere at a confined space with fresh air; to keep the concentration of toxic vapour in the confined area within safe limits.

About the company: Established in 1971, Hemant Industries is engaged in manufacture, supply and export of air movers, flange guards (PP, MS, SS, teflon), CCOE approved, safety fittings, industrial safety helmets.

Contact:
Hemant Industries, Vadodara
Tel: 0265-2642402, Mobile: 09825014516
Email: info@hemind.com, hemantindustries@gmail.com

FUME HOODS

Microteknik offers fume hoods.

Features:

- The fume hood conforms with international standards on fume handling systems.
- It is designed to contain and exhaust toxic, obnoxious, pungent smelling gases to protect persons and equipment in laboratories.
- A motor driven dynamically balanced blower with minimal vibration and noise level creates negative pressure and sucks contaminated air from work area and throws the same in high-up atmosphere through ductings.
- Fabricated out of thick duro-board, clad from outside in laminated sheet and finished inside in non-corrosive, chemical resistant epoxy paint; an up-down sliding sash made of teakwood mounted in thick glass sheet and workable on weights and pulleys system is provided.

About the company: Microteknik manufactures instruments for pathology, histopathology, microscopes, audiovisual, pharmacology, clean air systems, heat and refrigeration (from -80 to 2200 deg), seed technology.

Contact:
Microteknik, Ambala
Tel: 0171-2640855 Mobile: 09896044855
Email: microteknikgroup@gmail.com

CUSTOM-BUILT MATERIAL HANDLING EQUIPMENT IN INDIA

20T Coil Lifter

25T coil lifter

18T ingot tong

25t slab tong

55T coil transfer car

40T roll tong

40T coil tong

45T C-Hook

30T coil car

30T coil tilter

10T stack turnover device

Convector Plate Lifter

Coil Lifter

Tripod Grab

Ingot / Billet Tongs

Hot Plate Stack Lifter Trolley

Motorised Sheet Pack Lifter

Electro Hydraulic Cactus Grab

Transfer Car with Scissor Lift

Battery Operated Transfer Car

Pipe and Billet Transfer Car

Spreader Beams

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Email: mail@armaticengineering.com
Web: www.armaticengineering.com

DEALER ENQUIRY / SALES REP / NETWORK SOLICITED

INDUSTRIAL OIL BURNERS

Burner India offers a wide range of industrial oil burners.

Features:

- The product is loaded with dynamically balanced blower as per IS requirements and electric motor as per TEFC standards.
- It is an electronic photocell based flame monitoring device with precise automatic damper control for regulating the flow of air.
- Designed and developed as per the established industrial standards and is applicable in oil and petroleum industry, chemical industry and road construction industry; precise automatic damper control for regulating sufficient flow of air, which imparts efficient fuel combustion.
- Dynamically balanced blower as per IS requirements; nozzles – monarch/donfoss (imported); electric motor – TEFC standard.

About the company: Burner India manufactures industrial burners, blowers and hydraulic power packs hot air generator, etc.

Contact:

Burner India, Mehsana
Tel: 02762-224194
Mobile: 09825279389
Email: burnerindia@yahoo.com

PIPE CONVEYOR CHAIN

Tripcon Engineering offers a range of pipe conveyor chains.

Features:

- Offered range of chains can also be availed in various sizes, grades and other dimensions as per the given requirements.
- These products are manufactured using high grade raw material that is sourced from the most valued vendors of the industry.
- These are manufactured for use in conveying of pipes with bearing roller that gives a low coefficient of friction and a higher roller allowable load which allows user to use these chains in very rigid and rough conditions.
- Raw material like carbon steel, alloy steel as well as stainless steels are used; manufactured with a variety of steel grades which after heat treatment gives low coefficient of friction, high strength, durability and optimum output to the equipment.

About the company: Tripcon Engineering Pvt Ltd manufactures a wide rage of industrial chains.

Contact:

Tripcon Engineering Pvt Ltd, Anand
Tel: 02692-236031 Mobile: 09825089070
Email: response@elevatorchains.com

BUCKET ELEVATORS

Ironbuild Systems offers wide rnge bucket elevators.

Features:

- Bucket elevators are used to transfer the material from ground level to a certain height vertically.
- They consist of a nylon or rubber belt running on one drive pulley at the top and the other one is a driven pulley, which is at the bottom inside a fabricated casing.
- Belt is fitted with buckets at some specific intervals; buckets lift the material from ground level to a higher level and buckets are emptied while moving around top pulley by centrifugal action.
- Elevator is driven by top pulleys by speed reduction mechanism; either set of pulleys or gearbox can be used. Bottom pulley has a sliding mechanism for maintaining proper tension and alignment in the belt; top pulley is rubber lagged to avoid wear and tear of belt during movement.

About the company: Ironbuild Systems offers specialised services in the field of design, engineering and manufacturing of equipment for projects ranging across multiple disciplines/sectors.

Contact:

Ironbuild Systems Pvt Ltd, Anand
Tel: 02692-237207
Email: info@ironbuild.net, marketing@ironbuild.net

COPPER DRYER

Koolking Udhyog provides copper dryers.

Features:

- Copper dryers can be used in air-conditioners and refrigerators.
- These copper dryers are precision designed for preventing liquid and moisture present in air returning systems from entering compressors. They also assist in reducing system noise and in ensuring normal functioning of the system.
- For achieving durable construction quality, these fittings are manufactured using superior quality copper of standard i.e. ASME-B16.22; superior construction standards that prevent liquids present in air returning systems from entering compressors.
- These assist in reducing system noise and ensure normal system working; superior finish designs that ensure no leakage.
- Fittings manufactured using superior quality copper in standard i.e. ASME-B16.22; use of filter wire-mesh with SS 100/120 mesh.

About the company: Koolking Udhyog Pvt Ltd is serving in the air-conditioning industry since 1977.

Contact:

Koolking Udhyog Pvt Ltd, Sangrur
Tel: 01675-254018 Mobile: 09317724222
Email: sgopal@kpmgroupindia.com

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Revolution in Load, Tension & Transmission of Power

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WIRELESS LOAD & TENSION MEASURING DEVICE WITH HANDHELD REMOTE READOUT UNIT

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Load Sensing Device

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- Least count 1 in 1000 Div

INHOUSE CALIBRATION FACILITY EXISTS

About Birdman

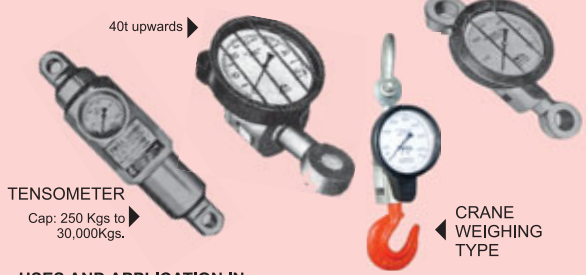
Over last four decades Birdman is engaged in marketing quality erection tools for 33 KVA to 400 KVA Transmission and Distribution line, having their own modern manufacturing unit equipped with inhouse testing and calibration facilities at Kolkata. Birdman is an ISO 9001:2015 Certified Company, approved supplier to Indian Railways, Electricity Board, Ship Buildings and other Heavy Industries all over the Country and abroad. 'YOTA' range of products are reliable, dependable and user friendly.

YOTA

Tension & Load Indicator

STANDARD SERIES
- Straight Dial
Cap: 250 Kgs to 30t

40t upwards



TENSOMETER
Cap: 250 Kgs to 30,000Kgs.

CRANE WEIGHING TYPE

USES AND APPLICATION IN

- Railway Traction & Signal Telecommunication
- Cable Tensioning in Transmission Towers.
- Testing Hoists and Blocks
- Winch Testing
- Crane Testing
- Sling Testing
- Aerial Ropeways
- Crane Weighing
- Tensile Testing and Control
- Fastener and Anchor Testing
- Guying Microwave Towers
- Drawbar Pull test
- Checking Structural Fabrication
- Transmission Line Hardware Testing
- Conveyor belt tensioning
- Chain testing

YOTA **Hydraulic Compressor**

For Jointing ACSR, AAAC, AAC & Copper Conductors upto 400 KVA Transmission Distribution Line

Hydraulic Compressor Power Pack

Sleek Design, Extremely Light Weight, easy to Handle, yet tough & rugged

YOTA **Hydraulic Cutters**

For cutting of ACSR, AAAC AAC & Copper Conductors.
Light Weight portable.
Extra blades available

Heavy Duty Model CTC 50 ACSR, AAAC & other Conductors
Weight: 8 Kg.

YOTA **Crimping Tool**

Very handy for Crimping Copper, Aluminium lugs and armoured cables. Forged 'C'head.
Integrated with pump unit.
Rotating Head (180°) and/or fixed head

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Call: (033) 2283 2710 / 2283 2821 Fax: 2283 2740
Email: birdmancpl@aol.com / info@birdmancpl.com
Web: www.birdmancpl.com
Contact: Mr. B. Banik: 098 300 70189

12 KV VCB, RETROFIT TYPE

System Control offers a wide range of 12 kV VCB, retrofit type

Features:

- The circuit breaker is only operated as and when required; the frequency of maintenance of ACB/BOCB/MOCB is dependent on the number of short circuit operations and the switching applications.
- It is cheaper and simpler alternative to enhance the life for the old installation whose service life in almost over or even surpassed.
- The benefits of modern technology, viz. vacuum technology can be made available with minimum installation cost; the frequency of maintenance can be drastically reduced as a VCB is used in place of ACB/BOCB/MOCB.
- There is no need to store large quantity of costly spares of ACB/BOCB/MOCB which may not be available because its manufacturing has become obsolete.

About the company: System Control manufactures low voltage (up to36 KV) switchgears.

Contact:

System Control, Salem
Mobile: 09488189406, 09488189407
Email: marketing@systemcontrol.in

FLAME PROOF BRAKE

Pethe Industrial Marketing Company offers flame proof brakes.

Features:

- Flame proof weather proof (FLP / WP) enclosures are constructed in accordance with provisions as specified in IS/IEC: 60079-1:2007.
- Very compact and modern in design; the mounting flange of the enclosure is mounted on the non driving end of the motor; failsafe AC or DC disc brakes are fitted inside these enclosures.
- There are 3 types of enclosures: small, medium and big, depending upon the size and torque capacity of the brake; suitable for II B and zone I and II atmosphere.
- Available with AC and DC brakes; CIMFR certificate will be provided; brass bush is provided with the FLP enclosure; double compression flame proof cable gland is provided with enclosure.

About the company: Pethe Industrial Marketing Company Pvt Ltd manufactures brake motors, clutches, gearbox, couplings, etc.

Contact:

Pethe Industrial Marketing Company Pvt Ltd, Mumbai
Tel: 022-24223976, 24220923, Mobile: 09821936459
Email: response@petheind.com, petheind@yahoo.com

BILLET GRABBER

SMT Machines (India) offers quality billet grabbers.

Features:

- These products are widely used in steel melting shops for the purpose of grabbing ingots or billets with ease; used to properly place the finished product in the stock yard or warehouse.
- The offred billet grabber provides durable standards and corrosion resistance; it is not a magnetic, hydraulic, electronic or pneumatic device.
- It is a pure mechanical device and has a number of advantages over other material lifting equipments.
- With a fully reliable and a total mechanical interlocking system it can help save a lot of time and resources and hence result in the increased productivity by many folds; it comes in various sizes and capacities.

About the company: SMT Machines India Ltd offers a comprehensive range of innovative engineering goods such as steel mill, pusher, ejector, impeller, conveyors, motor, V-belt pulley, gear coupling, reduction gearbox, pinion gearbox, etc.

Contact:

SMT Machines (India) Ltd, Mandi Gobindgarh
Tel: 01765-256337, 257742
Email: info@smtmachinesindia.org

SEMI AUTOMATIC PRINTING MACHINE

Ultracuring System offers economical semi automatic printing machines.

Features:

- It is fitted with squeegee head on hardened steel shafts with linear bearing motion that provides accurate and vibration free squeegee movement.
- Based on advanced technology, the machine ensures maximum stability at full production speed with quality prints.
- Suitable for quality screen printing, the machine maintains a high level of accuracy and can be easily controlled and installed; squeegee carriage on hard chrome plated solid steel shaft with linear bearing motion (IKO Japan).
- Adjustable squeegee angle from 0 to 30°; aluminium extruded squeegee holder and coater for even pressure; bed movement for registration x, y, and rotary ±10 mm; emergency rod/stop for safety of operator.

About the company: Incepted in 2008, Ultra Curing System is an exporter of post press unit, pre-press unit and printing unit.

Contact:

Ultracuring System, Vasai
Tel: 0250-6583351, 6052000, Mobile: 09890280460
Email: umraov.admin@gmail.com, umraosys@gmail.com

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muratec

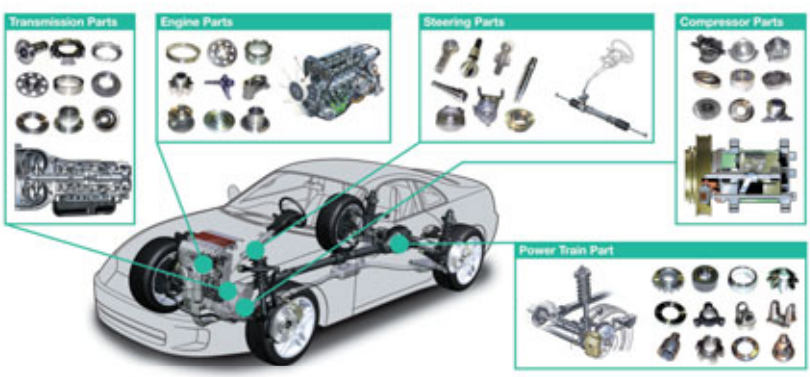
MURATEC Automated Turning Solutions

To meet the expanding global supply market requirements, Muratec has been a global leader in supply of Turning machines with advanced automation solutions. It is fully prepared to provide the most appropriate level of automation solution to meet the growing demand in India for medium to high volume global supply market combined with high-precision Standards. It also caters to the rapidity increasing volume requirements of the domestic Indian automobile industry.

Our MW/MS Series Twin and Single spindle automated turning machines and MD series turning centers have more than 10,000 installations worldwide. We are proud to say that, "MURATEC MOVES YOUR CAR".

MURATEC machines are available in a wide range of chuck sizes: capacities ranging from 6" to 15" chuck size. These advanced, precision turning machines come with highly reliable, integrated, intelligent CNC 3 axis servo controlled gantry loader for smart, fully automated, flexible workpiece load/unload operations.

Globally Proven Solutions, Abundant Experience in Automotive Parts Production



IMTEX 2019

Hall No. 5, Stall No. C101.

MURATEC Solutions for Sheet Metal Punching

Muratec, world's first manufacturer of servo driven ram turret punch press introduces leading innovation in sheet metal industry MOTORUM 3048TG. MOTORUM series does more than to achieve high reliability and high speed processing. This machine enhances overall productivity through process integration of bending, forming, tapping and other processes, together with reduction of time needed to set-up and program.

MOTORUM

MOTORUM series punch presses are available in various models to meet diversified needs of sheet metal industry. These machines are worldwide popular for its design features, rigidity, high speed productivity, environment friendly design features of minimum power consumption, low noise and high profitability to customers. Motorum series machines have more than 1,350 installations worldwide. MURATEC the leading name in automation is fully prepared to offer sheet metal automation solutions to meet the growing production demands in India.

Muratec Ball Screw Press Brake BB4013 is driven by AC servo motor & ball screw mechanism.

The New 300kN Solution Latest Technology from the Inventor of the Electric Turret Punch Press

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484-8502, JAPAN
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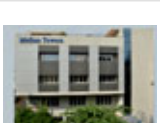

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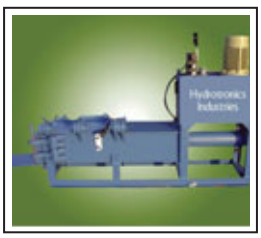
HYDRAULIC SCRAP BALING PRESS



Hydrotronics Industries provides hydraulic scrap baling presses.

Features:

- Hydraulic scrap baling presses are specially designed and manufactured for easy processing of ferrous or non-ferrous scrap in different forms.
- These machines are known for compressing leftover, housing of junk, metallic chips, cab, metal structural, into cuboids bales.
- Hydraulic scrap baling press is available in different models, which helps the user to select the machine as per the operation they are used for; they can be customised as per the required specification.
- Long functional life; robust design; high efficiency

About the company: Hydrotronics Industries manufactures a premium quality range of hydraulic cylinders, hydraulic power packs, hydraulic spare parts, hydraulic scissor lifts, hydraulic scrap baling presses and log splitter machines.

Contact:

Hydrotronics Industries, District Navsari
Tel: 02634-281163, 320492
Mobile: 09825154492, 09825034492
Email: hydrotronics.8622@gmail.com

MOTOR CONTROL PANELS

Dynamic Elecpower offers a wide range of DEPPL-610 series motor control panels.

Features:

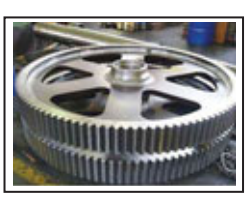
- Spacious arrangement is made for cable termination ensuring comfortable and easy maintenance; all covers, doors inter panel jointing are provided with neoprene gasket for perfect dust protection.
- Panels are very sleek and aesthetic is excellent; a perfect compartmentalisation construction; high quality epoxy powder switch boards to withstand corrosive environment and long lasting elegant doors.
- Bolted construction facilitates modifications, retrofit extension in minimum possible time; metallic/ transparent barriers are provided within the cubicle for prevention of human contact with live parts accidentally.

About the company: Dynamic Elecpower Pvt Ltd manufactures PCC (power control center), MCC (motor control center), PDB (power distribution boards), DG panels, capacitor panels, feeder pillars, PLC panels, control desks, battery chargers, relay control panels, etc.

Contact:

Dynamic Elecpower Pvt Ltd, Jaipur
Tel: 0141-2203002, Mobile: 09413348102
Email: skl.dynamic@gmail.com

BULL GEARS



Ashoka Machine Tools offers bull gears.

Features:

- These gears comprise toothed driving wheel which is also the largest in the mechanism; as a gear/sprocket much larger than others in same power train, these are larger of the two spur gears engaged in any machine.
- Makes use of latest computer aided designing support using software like Autocad; all software used updated to latest versions.
- Gears checked for interference checks as well as dimensional accuracies; expertise in offering solutions as per given designs and drawings; expertise in also offering load analysis and stress analysis on gears using finite element analysis for checking appropriate selection of materials and geometrical designs.
- The bull gears come as per different international standards, including ASTM-AISI (USA), BS (British), JIS (Japanese), GS (German) and IS (Indian) standards.

About the company: Ashoka Machine Tools currently manufactures heavy duty industrial equipment including ball mills, sugar crushing mills and stone crushers, vertical shaft and rotary kilns, crystallizers, filter presses, etc.

Contact:

Ashoka Machine Tools Corporation, Greater Noida
Tel: 0120-2340031, 2340032
Email: gkhanna@ashokamachines.com

IRON REMOVAL FILTERS

Clear Aqua Technologies offers iron removal filters.

Features:

- Used for removal of dissolved iron, present in the form of lower oxides; to facilitate regeneration, optional regenerant systems; in order to restore the media, it must be periodically regenerated with potassium permanganate (depending upon oxygen content of water).
- Designed in line with international quality standards, these filters are used for removing both oxidised iron and iron present in solution; compact size plants have filter media that are capable of removing small amounts of hydrogen sulfide.
- It acts as an efficient filter for removing oxidised iron and sediment; it also acts as a compact catalyst in augmenting the union of oxygen and dissolved iron in water to form oxidised iron.

About the company: Incepted in 2005, Clear Aqua Technologies Pvt Ltd is engaged in manufacturing and offering consultancy for the commissioning of water treatment plants.

Contact:

Clear Aqua Technologies P Ltd, Tiruchirappalli
Tel: 0431-6501912, 4250042
Mobile: 09842276000, 09842202219
Email: info@clearaquatechindia.com

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FRP NATURAL DROUGHT COOLING TOWER

Wetpoint Aqua Equipment offers FRP natural draft cooling towers.

Features:

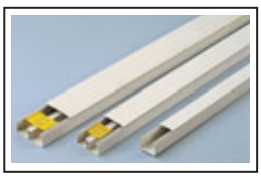
- The offered product is designed with the aid of supreme-quality components and cutting-edge machineries.
- Temperature resistant; finely finished; durable.
- Designed for operating economically and need negligible maintenance; the special characteristics of fibre-reinforced plastic provide excellent resistance to corrosion.
- These cooling towers work on water jet principal; they offer low maintenance due to fan less-fill less construction.

About the company: Incepted in1996, Wetpoint Aqua Equipments Pvt Ltd is involved in manufacturing and supplying an incomparable assortment of timber double flow model, splash bar, gear box, flow control valve, fan cylinder, flexible coupling, FRP natural draft cooling tower, fan blade, rubber bush, etc.

Contact:

Wetpoint Aqua Equipments Pvt Ltd, Gwalior
Tel: 0751-3290436, 2432676
Mobile: 09302214784, 09826214784
Email: ceo@wetpointcoolingtowers.com

PVC CABLE TRUNKING



Shree Gopal Industries offers a broad consignment of PVC cable trunking.

Features:

- Manufactured from specially formulated high impact unplasticised poly vinyl chloride; non-flammable, non-corrosive and rust proof; easy and efficient installation with clip on lid for easy maintenance.
- Highly economical as compared to steel/aluminium trucking; designed to enclose all types of cables i.e. power, data, telecommunications, etc.
- Provides total electrical insulation; allows good looking and systematic wiring; permits faster fault tracing and rectification; avoids bunching of wires.
- Widely used homes, offices and commercial establishments for open wiring; used for wiring in telecom industry, buses, railway coaches, ships, aircrafts, etc.

About the company: Shree Gopal Industries, started in 1998, manufacturers PVC channels, cable ducts, PVC cable management systems, PVC sleeves, PVC cable markers, spiral wrapping bands and PVC compounds.

Contact:

Shree Gopal Industries, Distt Alwar
Tel: 01493-512245 Mobile: 09309493122
Email: enquiry@sgiindia.in

HYDROBEND HYDRAULIC PIPE BENDING MACHINES

SMA Kapadia & Co provides pipe and bus bar bending machines

Features:

- A wide assortment of pipe and bus bar bending machines used in various types of hydraulic and motorised operations are on offer.
- These hydraulic pipe bending machines are offered in various technical specifications in terms of size, pressure capacity and formers.
- The ejecto-matic hand operated pipe bending machine is provided with standard formers and accessories and is available in sizes of 1/2" to 3", 1/2 to 4" and 2" to 6".
- Motorised hydraulic pipe bending machines are from hydrobend and ejecto-matic; these are hydraulic motorised heavy duty bench type pipe bending machines available with hydraulic pressure capacity of 45 tons.

About the company: SMA Kapadia & Co is engaged in providing solutions for hydraulic based equipment and accessories as an importer, distributor and stockist.

Contact:

SMA Kapadia & Co, Chennai
Tel: 044-25224832, 25223960, Mobile: 09840598867
Email: info@hydropowerengineering.com

TUBULAR FURNACE, SPLIT TYPE MODEL

Sigma Scientific Products offers tubular furnace, split type model.

Features:

- The thermo couple is located in a protected position between the outside of the work tube and heating element, allowing the full work tube diameter to be used normally built on the horizontal base pictured left, this furnace range can optionally be mounted vertically with a separate control box.
- Applications in material research includes testing of novel materials under strict temperature and varying atmospheric conditions; applications in the electronics industry include testing electronic components and semiconductor materials under inert atmospheres or vacuum.
- Applications in instrumentation include testing of temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity.

About the company: Sigma Scientific Products is engaged in manufacturing and supplying a wide range of scientific and laboratory instruments.

Contact:

Sigma Scientific Products, Chennai
Tel: 044-42647197 Mobile: 09381014751
Email: sigmainstruments09@gmail.com

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- Bell Type Furnaces for Bright Annealing & Heat Treatment
- Conveyorised Furnaces for Hardening and Tempering Plants
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- Furnaces with Hydrogen Atmosphere
- Furnaces for Gas Generators and Ammonia Crackers
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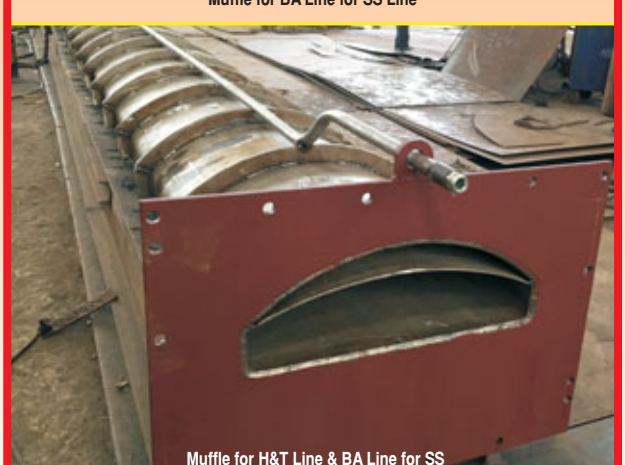
- Special Purpose Furnaces for Chemical Plants
- Continuous Furnace for Sintering & Brazing

80 Ton Bell Type Bright Annealing Furnace

IMPORT SUBSTITUTES

Corrugated Inner Covers for Bell Furnaces

Muffle for BA Line for SS Line



Muffle for H&T Line & BA Line for SS

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Batch Type Muffle Furnace with Protective Atmosphere

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Quenching Furnace For Manganese Steels

Hot Air Generator for Municipal Waste / RDF to Energy Projects

Hardening Furnace with Quenching Tank for 40 Feet long Bars/Pipes

Conveyorised Heating Furnace

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Wellmake offers Energy Saving Devices for all type of Fuel or Gas Fired Furnaces wherein Combustion air to be preheated upto 350°C depending upon type of furnace by outgoing flue gases thus giving fuel saving of upto 5 – 6% depending upon type of furnace. The Recuperators fabricated from ERW or Seamless Tubes in grade AISI 304, 316 and 310.

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Please contact with your specific requirements at;

Wellmake Engineering Company Pvt. Ltd.

38 Km, Sector-16, Kasar Road, Opp. Somani Labour Gate, Bahadurgarh 124 507. Haryana.

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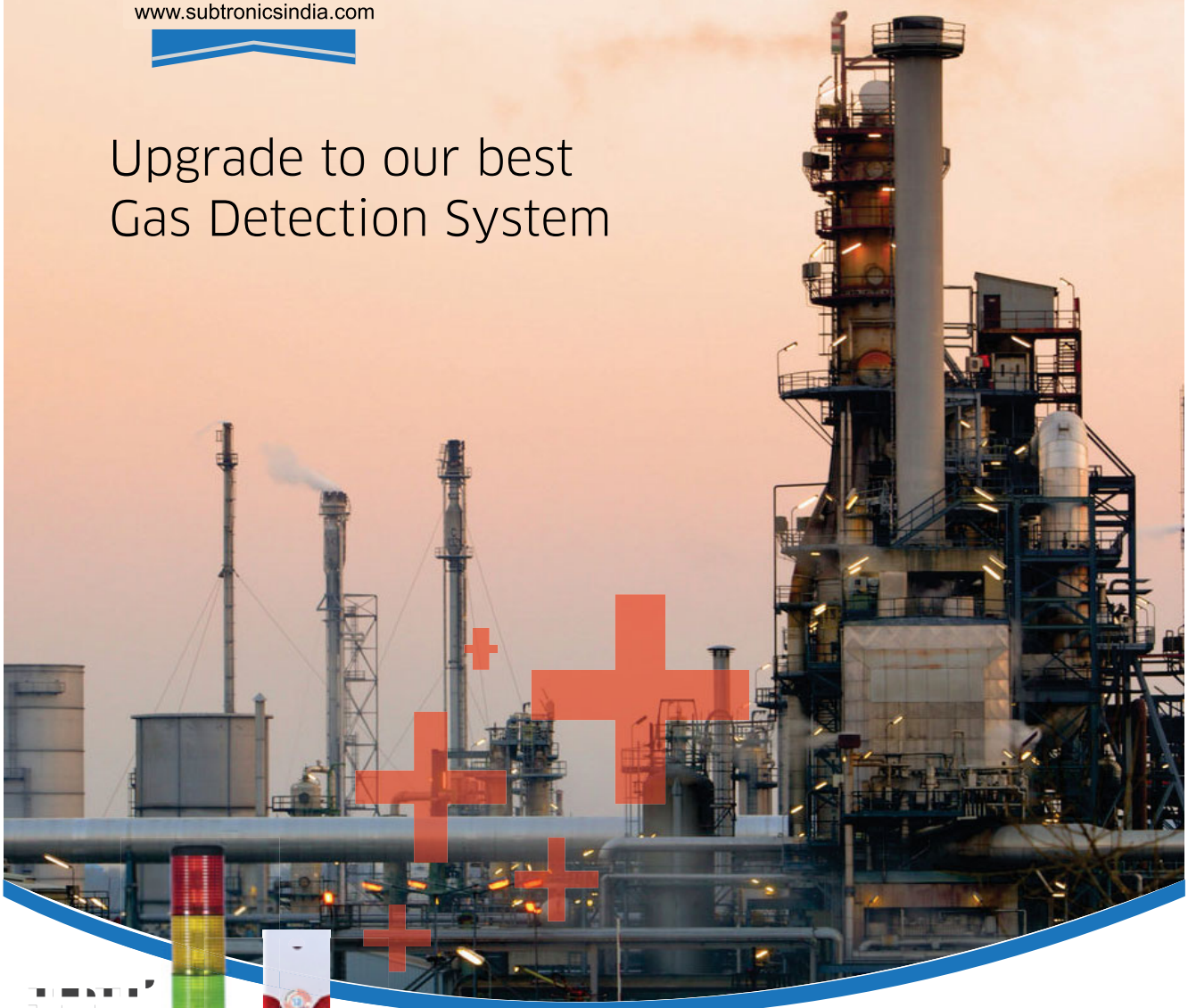

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BELT SANDER SM-620

SS Air Tools offers a specially designed and fabricated range of belt sanders.

Features:

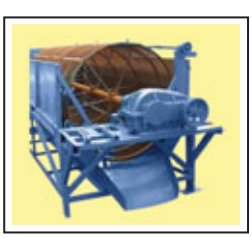
- Belt sanders are extensively demanded in industrial production and material removing processes.
- Ideal for cutting material and for removing purposes on wood, sheet metal and other metal surfaces, the belt sander is appreciated for being high performing, durable and user-friendly.
- Ideal for sanding and grinding in narrow spaces, recessed areas and on curved surfaces; all-around versatility for grinding, sanding and polishing applications.
- Grinding arm easily adjusts to operate in any position 0-360°(except BB-10); unique rotor and vane assembly delivers maximum power and performance.

About the company: SS Air Tools provides complete assembly solutions with an extensive range of pneumatic and electrically operated assembly tools, material removing tools and material handling equipment.

Contact:

SS Air Tools, Chennai
Tel: 044-42751740, Mobile: 09841966111
Email: info@ssairtools.com, sales@ssairtools.com

TROMMEL SCREENS



Ashoka Machine Tools International offers trommel screens.

Features:

- This trommel screen is developed using premium class raw material in accordance with set quality norms; the offered trommel screen is examined on numerous quality parameters.
- The screen is provided in various specifications at very affordable rates to the customers; longer working life; easily changed screen plates; sturdy structure; screen replaceable for different mesh sizes; available in multiple sizes.
- Easily changed screen plates; largest processing capacity in the industry; heavy duty feed hopper and extension; discharge chute; gear drive mechanism; variable speed drive mechanism.

About the company: Ashoka Machine Tools International Pvt Ltd manufactures a diverse range of kiln girth gear, girth gear, pinion gear, bearing housing, support rollers, kiln tyres, rings, etc.

Contact:

Ashoka Machine Tools International Private Limited, Bulandshahr
Tel: 011-29535201 Mobile: 09810886635
Email: kkhanna@gears-india.com

AUTOMATIC BATCH FOAM MACHINE

A S Enterprises offers automatic batch foam machines.

Features:

- This machine has complete metering lines for all chemicals including tanks, pumps, pipelines and return valves for re-circulation; PLC and touch screen operation.
- Digital control of delay time, mixing time and speed; one tooth foaming command; recipe storage system.
- High production due to short cycle time; exhaust hood with top flattening device; can produce all grades of foam; un-matched foam quality.

About the company: A S Enterprises was established in 1971 as an automobile accessory manufacturing company. The is engaged in manufacturing of cutting and processing machines for flexible polyurethane foam.

Contact:

A S Enterprises, New Delhi
Tel: 011-27296446, 27857561 Mobile: 09811109929
Fax: 011-27853498.
Email: ase@bol.net.in, info@as-enterprises.com

MC BOX SYSTEM

Ruchak Enterprise offers MC box systems.

Features:

- MC box permits: pump ignition, identification of authorised users, pre-selection of dispensed quantity, management of pulse metre, management of an external switch to switch off pump at minimum level, management of micro switch connected to nozzle support, connection to an external printer.
- Panel with dual display, keyboard and I-button reader; controls up to 120 users through passwords or i-button keys.
- Calculates consumption of each individual user; local memory up to last 255 operations; possibility of inserting vehicle registration number, kilometres, date and time of dispensing; dedicated software for printing individual detailed summaries.
- Possibility of managing up to 16 panels with one software; key reader with USB socket for exporting data.
- RS converter with USB socket for direct connection with PC via cable up to 1000 metres.

About the company: Ruchak Enterprise offers high quality products and innovative solutions in compressed air, pneumatic and power tools, fluid handling solutions, material handling solutions, lubrication solutions, etc.

Contact:

Ruchak Enterprise, Ahmedabad
Tel: 079-66610013
Email: info@ruchakenterprise.com

EFFLUENT TREATMENT PLANT

Akshaya Enterprises offers an exhaustive range of effluent treatment plants.

Features:

- The effluent treatment plant is designed to treat the effluent coming from different areas of the plant.
- The treatment of different effluents varies with the type of effluent; industrial wastewater contains a diversity of impurities and therefore for this reason alone, its treatment constitutes a special task.
- The treatment process may contain mechanical, biological, chemical and physical process steps.
- Some processes followed are aerobic biological process, anaerobic biological process and chemical-physical process.

About the company: Established in 1989, Akshaya Enterprises, is a manufacturer, exporter and supplier of industrial processing machines, equipment, and plants. Its extensive range finds application across textile, power, garment, engineering, and automotive industries.

Contact:
Akshaya Enterprises, Coimbatore
Tel: 0422-2410272
Mobile: 09629968102, 08668079040
Email: balanakshaya@yahoo.com

SOLAR COOLING SYSTEM

Heat Max Engineering offers a range of solar cooling systems.

Features:

- This integrated system offers the advantage of optimising the use of electricity and maximising the use of clean, renewable, solar thermal energy, while meeting the cooling load.
- Attractive payback period; subsidy available from MNRE, Government of India; accelerated depreciation benefit up to 80% in the first year.
- Zero energy cost; proven technology; seamless integration with existing system; can be mounted on flat or inclined roof as well as ground; modular design - easy to install; maintenance free; no tracking required - non-imaging collector.

About the company: Established in 2003, Heat Max Engineering is a manufacturer of industrial thermic fluid heaters, industrial steam boilers and hot water generators. Other than this, company also offers belt conveyors, pollution control equipment, industrial coils and hot air generators.

Contact:
Heat Max Engineering, Ahmedabad
Tel: 079-25840215
Mobile: 09824052714, 09824094210
Email: hmevipul@yahoo.com

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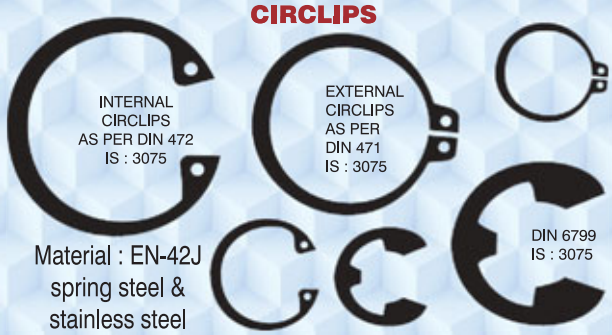

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R.K. ENGINEERING CO.
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Tel.: Off.: 022-2267 1141 **Resi:** 2824 1032 **Fax:** 91-22-2265 5255
E-mail: rkeng@vsnl.net, **Website:** www.rkengineeringco.com
Works: Andheri (East), Mumbai - 400 059.

CENTRIFUGAL BARE PUMP

Creative Engineers offers centrifugal bare pumps.

Features:

- These centrifugal pumps are stainless steel centrifugal monoblock and bare pumps (coupled); made from SS-304 or SS-316 sheets, and are precisely fabricated.
- Its wetted parts are of stainless steel and are widely used in chemical and process industries; as these pumps are fabricated from steel, it is also widely used in dairy, food and beverage industries, wine, RO and DM plant, sea water applications, etc.
- These pumps are available from 0.25 HP to 30 HP; offered centrifugal pump head is up to 90 metres and its capacity is up to 3000 LPM.
- All pumps are made from rolled stainless steel, mechanical properties; pore free, non-pitting and non-adhering smoother surface, so less friction losses, and less service corrosion.
- Super finish surface also ensures no ingress or emission of germs or impurities during pumping or idling which is a basic requirement of sterile/hygienic application; pump can handle liquids having viscosities up to 1500 centipoises.
- Pumps are highly energy efficient and require less NPSH to function without cavitation; the pumps can work under a vacuum of 720 mm of Hg, suitable for vacuum evaporators; pumps are available with dosed/ semi open impellers.
- The best elastomers are used in the pumps to provide optimum resistance for high temperatures and chemicals; minimum working/rotating parts; safe operation levels; gentle product handling with lower maintenance and downline cost.
- Dynamic combinations of seal faces as per customer's requirement; suitable for standard motor or flange type, or foot cum flange type motor or engine.
- Monobloc or bare pumps or with trolley; also with flame proof motors; various types of connection like - triclove joints SMS, flanges or threaded nipple/ coupling; pumps with adjustable legs, available on request.

About the company: Creative Engineers is an offshoot of more than two decades old group 'Fair Deal'. Creative Engineers is an ISO-9001:2008 certified organisation engaged in manufacturing, trading, importing and exporting different types of industrial and chemical pumps like horizontal centrifugal pumps, multistage centrifugal pumps, submersible pumps, agricultural water pumps, submersible water pumps, electric motors and impellers which have found applications in different industries.

Contact:

Creative Engineers, Ahmedabad
Tel: 079-25431453, 25431454
Mobile: 08140179903, 09825065939
Email: admin@sspumpsindia.com

SCREW CONVEYOR

Shree Techno Engineers offers precision engineered screw conveyors.

Features:

- These are offered in a plethora of sizes, specifications, and are used for handling sugar, cement, biomass, ash, refuge, food stuffs, and many more types of materials.
- These are used to transfer bulk materials in horizontal or inclined direction and speed can be controlled easily by changing propulsion speed.
- High quality motor and gear box, with heavy duty design, large torque and low noise; outside tube complete with one inlet, one outlet, end flange, ball joint, inspection window.
- Standard fitting parts, middle bearing, end bearing, splined shaft coupling; lifting eyes on each tube section, convenient for transport and installation; small diameter, great efficiency, high throughout rates.

About the company: Shree Techno Engineers manufactures vacuum pumps, root blowers, pneumatic bulk material handling, etc.

Contact:

Shree Techno Engineers, Ahmedabad
Tel: 079-25892077, Mobile: 09825508262
Email: shreetechno1@gmail.com

20 FEET TELESCOPIC BELT CONVEYOR

Darshini Engineers offers 20 feet telescopic belt conveyors.

Features:

- A telescopic belt conveyor is a mobile equipment.
- It has an expendable arm to reach the full length of truck or container; being truly mobile, it can be shifted anywhere with minimum effort man power.
- A must equipment for dispatch department; available in many options and length to suit the container or truck length; trailer penetration of 10 metres.
- Box carrying capacity ranges from 500 boxes to 2500 boxes per hour; maximum load capacity (bag/box) of 50 kg; all rolling components have lifetime lubricated sealed bearings.
- Delivers telescopic boom conveyor performance without the need for loading docks; typical trailer penetration is 10 metres nominal.

About the company: Darshini Engineers makes an extensive range of equipment like pollution control systems, pollution control equipment, air pollution control equipment, industrial pollution control equipment, gas pollution control equipment, etc.

Contact:

Darshini Engineers, Ahmedabad
Tel: 079-65436946, 65456412
Email: info@darshiniengineers.com

RUBBER EXPANSION JOINTS

Industrial Rubber Products manufacturers rubber expansion joints.

Features:

- Pipe expansion joints are used in systems that convey high temperature commodities such as steam or gases, or to absorb movement and vibration.
- A typical type of expansion joint for pipe systems is a bellows which can be manufactured from metal (most commonly stainless steel), plastic (such as PTFE), or anelastomer such as rubber.
- A bellows is made up of a series of one or more convolutions, with the shape of the convolution designed to withstand the internal pressures of the pipe, but flexible enough to accept the axial, lateral, and/or angular deflections.
- Expansion joints are also designed for other criteria, such as noise absorption, anti-vibration, earthquake movement, and building settlement.

About the company: Industrial Rubber Products supplies high quality industrial rubber components.

Contact:
Industrial Rubber Products, Coimbatore
Mobile: 09367610958, 09361122338
Email: irpcbes@yahoo.co.in, irpcbes@gmail.com

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E-mail : enclosure@trinitytouch.com / ms@trinitytouch.com

HOSE CLAMP

Electro Power Engineers offers hose clamps.

Features:

- These clamps are developed using carbon steel/stainless steel material finish as well as in any defined sizes as per given specification. They are available in different finish.
- Available in different material grades like 400/300 and others; band width options of 8mm/10mm and others.
- Smooth finish of outer band edge that prevents hose damages, precise stamping molding support, allows for uniform stress and superior sealing ability.
- Suitable for use in induction furnaces and pipeline systems, offers superior dimensional accuracy, corrosion resistance, superior resistance to weathering condition and others.
- High tensile strength; superior resistance to weathering condition; customised specification; superior finish.

About the company: Electro Power Engineers is a manufacturer and exporter of induction melting furnace and induction heating equipment parts.

Contact:
Electro Power Engineers, Ahmedabad
Mobile: 09825022936, 09825322936
Email: info@inductofurnace.com

SPIRAL HEAT EXCHANGER

Equitek Process Solutions are providing spiral heat exchangers.

Features:

- Ideal for heating or cooling slurries or sludge; fluid distribution is good; fouling rate is low, if fouling does occur it can be cleaned easily.
- Spiral plates can achieve heat recoveries in a single unit; avoid problems associated with differential thermal expansion in non-cyclic services.
- Self-cleaning effects result in low maintenance; compact in size; energy efficient; high efficiency; smooth functioning; easy to handle.

About the company: Established in 2013, Equitek Process Solutions is known for manufacturing, trading and exporting agitators and heat exchangers. Used in various chemical industries, the offered range consists of heat exchangers, hot water systems and top entry agitators. The product range possesses properties like sturdy construction, compact design, impeccable finish, less energy consumption and longer serving life.

Contact:
Equitek Process Solutions Private Limited, Pune
Tel: 020-65281618
Mobile: 09075588855, 09371277405
Email: tusharnpatil@gmail.com

OIL SEPARATOR

Innovation Filter System offers oil separators.

Features:

- Apart from aesthetics, it enhances the product's resistance towards corrosion.
- The issue of improper adhesion of paint is solved by installing the offered thermal oil separator in the de-grease and pre-degrease tank and continuously circulating the alakaline solution through it.
- A floating suction arrangement is permanently installed in the degrease tank and the clean (oil-free) solution goes back in the same tank.

About the company: Incepted in 1999, Innovation Filter System Pvt Ltd is a manufacturer and supplier of various filtration systems. These include high rate sand filter (crystal), micro-pure back-washable edge filtration system, industrial centrifuge machine and retrofit model for machines. Manufactured using quality materials such as steel, emulsified coolant, kerosene, white spirit and diesel, these systems are appreciated for high quality standards.

Contact:
Innovation Filter System Private Limited, Pune
Mobile: 07350003958, 09970060292
Email: ifspune@gmail.com

HYDRAULIC FLASH BUTT WELDER

Keje Thermoweld Equipment offers hydraulic flash butt welders.

Features:

- Flash butt welding is a modern technique of joining mild steel, alloy steel and other dissimilar metals in various tubular or solid sections.
- Weld quality obtained is mechanically or metallurgically similar to the parent metal; because of shorter weld times the process is suited for higher production than other conventional methods.
- No additional items such as rods or gas, etc., are required, thus it is highly economical; little or no end preparation; high accuracy of welding joints; high consistency of weld parameters.
- Fully hydraulically operated; forced air cooled transformer having core of high grade silicon steel confirms to IS 4804, part II; precision control on initial die opening.

About the company: Keje Thermoweld Equipment Pvt Ltd specialises and has expertise in welding and heating.

Contact:
Keje Thermoweld Equipments Pvt Ltd, Pune
Tel: 020-27120943, 27120867
Email: n.mahbubani@kejetherm.com

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Standard Configurations & Main Features:

- Machine specialized for spinning, shear forming, machining, trimming, beading.
- Siemens / Fanuc / Delta panel as standard CNC system which has USB port.
- Standard models available to maximum blank size 1000mm
- Replay (playback) programming with joystick can be supplied.
- Automatic loading/unloading systems and robotics options.
- Custom machine available for large blank size and thickness; or for special applications.
- Integrated automatic lubrication system makes the maintenance more reliable
- Precision ball screws ensure dynamic performance well and positioning accurately.
- Siemens / Fanuc / Delta make servo system
- Hydraulic & Pneumatic tail stock.
- Automatic Centering unit
- Stationary trimming blade
- Automatic lubricants spray unit
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- Semi-enclosed shield for safe working.
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www.dsmachinerymakers.com **dsmachinerymakers@gmail.com**
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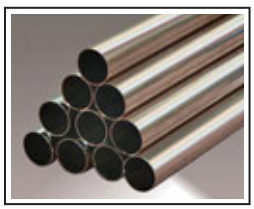
MAKE IN INDIA

NICKEL ALLOY PIPES & TUBES



Reliable Pipes & Tubes offers nickel alloy pipes and tubes.

Features:

- Due to its corrosion resistance, nickel is used to maintain product purity in the processing of foods and synthetic fibers. It is highly resistant to various reducing chemicals and is unparalleled in resistance to caustic alkalies.
- In addition, nickel has good thermal, electrical and magnetostrictive properties; relatively high thermal conductivity of this metal has led to its frequent use in heat exchangers.
- Nickel 200 and nickel 201 are solid solution strengthened, commercially pure wrought materials with good mechanical properties over a wide range of temperatures and excellent resistance to many corrosives, in particular hydroxides.
- Nickel 201 was a modification of 200 to control carbon (.02 max) which keeps it from being embrittled by intergranular precipitates at temperatures of 600° F to 1400° F in many processes.

About the company: Reliable Pipes & Tubes Ltd is a part of the Reliable Group. Established in 1975, Reliable is a manufacturer of seamless and welded pipes and tubes in stainless and corrosion resistant alloys.

Contact:

Reliable Pipes & Tubes Ltd, Mumbai
Tel: 022-43431313 (25 Lines)
Email: sales@nickelpipes.com

FLAT BED HEAT TRANSFER PRINTING MACHINE

Appeal Print N Pack Systems Inc offers flat bed heat transfer printing machine.

Features:

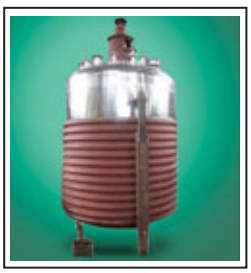
- This printing machine offers with smooth functioning, durability and excellent performance that have created a wide demand across industrial verticals.
- These machines are delivered after a stringent check system; they have high strength and exceptional finish and are easily available via online booking system.

About the company: Appeal Print N Pack System Inc is a manufacturer, exporter, importer and supplier of sturdy and user-friendly machines. The company deals in a large variety of garment sublimation printing and garment screen printing, textile screen printing systems and consumables.

Contact:

Appeal Print N Pack Systems Inc
New Delhi
Tel: 011-23641465
Mobile: 09811159652, 09582911464
Email: appealprintpack@yahoo.co.in

AGITATOR REACTION VESSELS



Rahul Engineering Company offers process reaction vessels and agitators.

Features:

- It incorporates different types of reaction vessels such as jacketed, limpet coil, top open type, top dish type, etc.
- Highly efficient; economical; simple in construction; operates at low power; insulated; vertical orientation; horizontal orientation; high temperature resistance.
- Used for chemical plants; pharmaceutical plants; dyes industry.

About the company: Since 2005, Rahul Engineering Company has been engaged in offering a wide range of storage tanks, vacuum chambers, pressure vessels, brewery equipment, chemical plant reactors etc. In addition, the company also offers chemical plant crystallizers, heat exchangers, condensers, evaporators and air receivers. This entire range undergoes extensive testing such as hydro, pneumatic and dye penetration test to ensure quality standards.

Contact:

Rahul Engineering Company, Pune
Mobile: 09890087871, 09822345588
Email: rahul@recpune.com

ULTRASONIC LIQUID PROCESSORS

Johnson Plastosonic offers ultrasonic liquid processors.

Features:

- These products are widely used for processing liquids and lab operations.
- These high wattage liquid processors have varied applications in a laboratory, like disintegration, degas solutions/deaeration, creating emulsions, dispersion, homogenising, ultrasonic trans-esterification and particle size reduction.
- These ultrasonic liquid processors can make different types of tips depending on size and vibrations needed.
- An advanced ultrasonic generator system; temperature sensor is available for temperature viewing; ultrasonic probe provision in housing enclosure of sound absorption; ultrasonic PP box welders.
- Johnson Plastosonic can make different types of tips depending on size and vibrations needed.

About the company: Johnson Plastosonic Pvt Ltd manufactures ultrasonic liquid processors, ultrasonic plastic welding machines, ultrasonic PP corrugated box welders, ultrasonic hand presses, etc.

Contact:

Johnson Plastosonic Private Limited, Pune
Tel: 020-64702860 Mobile: 09225631812
Email: johnsonplastosonic@gmail.com

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RUBBER MOUNT

Sigma Polymer Industries offers rubber mounts.

Features:

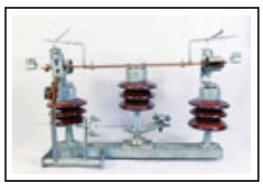
- Anti vibration metal rubber offered comprises a cylindrical shaped rubber that comes integrally bonded with metal and provides for high compression strength as well as low shear stiffness, thus making these perfectly suited for use as anti vibration mountings.
- Allowing for easy installation support, these mountings are constructed in different diameters and height options, are weather proof and are recognised for their durability and quality finish.
- Size: various sizes are available; colour: black, brown, white, blue, green, etc; Shape - O, B, E, K shape or customised.
- Quality assured range of anti vibration metal rubber; integrally bonded between ferrous/non-ferrous metal parts.

About the company: Sigma Polymer Industries was founded in 1995 as an OE manufacturer and supply company providing an array of rubber components.

Contact:

Sigma Polymer Industries, Mumbai
Tel: 0250-2391204, 2392089, Mobile: 09322507132
Email: sigmaind@vsnl.net

LT SHACKLE INSULATOR



Rashtriya Electrical And Engineering Corporation offers a wide range of LT shackle insulators.

Features:

- All the components and materials used in the manufacturing of LT shackle insulators are of high quality, which results in excellent insulation in various applications.
- Manufactured from superior quality raw materials, the offered range is known for its capacity to withstand normal domestic voltage.
- These shackle insulators have a semi vitreous body which requires low maintenance and offer a long working life.
- The entire assortment of LT shackle insulators is widely accredited for its smooth functioning, durability, superior performance, sturdy construction, high efficiency and corrosion resistance.

About the company: Rashtriya Electrical And Engineering Corporation provides high grade engineering and electrical products.

Contact:

Rashtriya Electrical And Engineering Corporation, Ghaziabad
Tel: 011-2386 0070, 2386 3593, Mobile: 09999904753
Email: sales@rashtriyaelectrical.com

AUTOMATIC WATER LEVEL CONTROLLER

J K Instrumentation offers an assortment of auto water level controllers.

Features:

- When water level in the overhead tank falls below the lower sensor, pump will automatically start, and will keep running till water level reaches the upper sensor, and switches off the pump when the tank is full.
- Suitable for jet pumps, mono block pumps, and submersible pumps with single phase/three phase power supply.
- Main supply - 230 VAC/1 phase, 50 Hz; operating voltage - 24 VDC max load-230 VAC/10-25 amps; robust construction, superior performance, easy operation and ergonomic design.

About the company: J K Instrumentation is a manufacturer of process control instruments and allied products. Its product range includes reflex/tubular level gauges, gauge valves, float switches, water level controllers, cable float switches, miniature float switches, bypass magnetic level indicators, flow meters, etc.

Contact:

J K Instrumentation, New Delhi
Tel: 011-65932601, 22162603,
Mobile: 09310229859, 09868359572
Email: jkidelhi96@gmail.com

AUTOMATIC VOLTAGE STABILIZER

Suresh Electrical Industries offers automatic voltage stabilizers.

Features:

- The servo controlled voltage stabilizer or automatic voltage stabilizer is known for its high efficiency and its aptness for weather conditions in the Indian subcontinent.
- These voltage stabilizers or automatic voltage stabilizers can easily handle the voltage fluctuations and help in obtaining a steady output; the stabilizer is equipped with a fully solid state voltage sensing relay.
- Additionally, it is designed to act fast so that it may easily handle any variation in the supply, frequency, load and PF and provide balanced voltage output.
- Long term stability and efficiency as high as 95%; provided with a drive motor that has a high torque and low speed output; short-circuit proof stabilizers; provided with output setting of /- 5 volts; indicator for 'power on', 'input too low' and 'input too high'.

About the company: Suresh Electrical Industries is one of the leading manufacturers, exporters and suppliers of transformers, rectifiers and voltage stabilizers.

Contact:

Suresh Electrical Industries, Mumbai
Tel: 022-28488554, 28488216, Mobile: 09324321806
Email: sei2002@vsnl.com

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SCAFFOLDING PROP SLEEVES

Taha Fabricators offers high performing scaffolding prop sleeves.

Features:

- These barrels can be seen at construction projects and sites supporting all kinds of frameworks, beams, and wall columns.
- The offered prop barrels have been developed from premium grade material in compliance with the top industrial standards.
- These prop barrels are available in both heavy and light duty fabrication; remarkable grip; sturdy design; light in weight; fine handling.
- Tube size – customised; length - as per requirement; thickness - 3, 3.5, 4 mm or customised.

About the company: Established in 1983, Taha Fabricators is engaged in the manufacturing and trading of a wide range of construction equipment. The company's range of material handling equipment includes scaffolding products, barrows and trolley, lifting products and concrete mixers.

Contact:
Taha Fabricators, Mumbai
Tel: 022-25828768, Mobile: 09870044663
Email: taha.int@hotmail.com, tahafabs@hotmail.com

STORAGE TANKS

Yashodeep Fabritech provides different types of storage tanks.

Features:

- Highly durable and robust in construction.
- Since most liquids can spill, evaporate or seep through even the tiniest opening, special care is taken for their safe and secure handling.
- Storage tanks need a floating roof in addition to the fixed roof of the structure.
- This floating roof rises and falls with the liquid level inside the tank, thereby eliminating the vapour zone.
- Floating roofs are considered a safety requirement as well as a pollution prevention measure for many industries, including petroleum refining.

About the company: Established in 2002, Yashodeep Fabritech is engaged in manufacturing a wide range of screw conveyors, fermenters, heat exchangers and pressure vessels. These include flexible screw conveyors, screw conveyors, powder transfer system storage tanks, and flow-pads. This wide range meets the demands of petrochemical, chemical and pharmaceutical industries.

Contact:
Yashodeep Fabritech, Pune
Tel: 020-64100298, 66305961, Mobile: 08806701650
Email: yashodeepfabritech@yahoo.com

MAGNETIC WATER SOFTENER

Sai Aquafresh offers a wide range of water softeners.

Features:

- This gadget induces instant charge in the water stream resulting in the breaking of the weak molecular bond of elements and compounds present in the water.
- The positive and the negative charges are there upon each molecule present in the water which helps water to reduce its surface tension, with the result of more penetration of water molecules in the object where water is being used for various applications.
- This gives instant physical change to the water molecule and the changes remain effective till the water retains the charge - approximately the effect remains up to 90-120 hrs.
- The construction has been made simpler by keeping in mind the easy fitments within the running pipe; the magnetic cage kept inside the SS pipe with adequate solution so that the flux which is being created should have concentration on various points, which is enough to break the ionic bond.

About the company: Sai Aquafresh manufactures water purifying systems like domestic RO systems, commercial RO systems, filters, chemical softeners, effluent treatment plants and disinfectants.

Contact:
Sai Aquafresh, New Delhi
Tel: 011-25881093, 25889739, Mobile: 09810119774
Email: info@saiaquafresh.com

DG CONTROL & SYNCHRONIZING PANELS

Accusoinc Controls offers DG control and synchronising panels.

Features:

- These panels are used for AMR applications as well as generator parallelity, and mains and generator synchronising.
- Powder coated enclosure; modular design; state of the art generator controllers; controller suitable for all the alternator/engine makes; type 2 coordinated component selection; easy maintenance bus-bar system upgradeable at site.
- Optional common outgoing feeder for synchronised generator, power optional mains feeder; panels also available for one generator and multiple electricity board feeder for AMF function.

About the company: Accusonic Controls has been a provider of electrical panel and power distribution equipment for more than two decades.

Contact:
Accusoinc Controls Pvt Ltd, Pune
Tel: 020-25236666
Email: info@accusonic.net

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CYLINDRICAL PFC CAPACITORS

Standard Capacitors offers cylinder PFC capacitors.

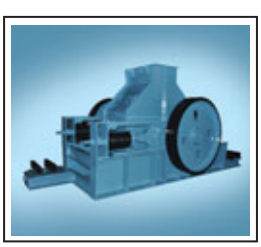
Features:

- These are available in MPP/gas filled design; keeping in mind safety concerns. These capacitors come with self-healing overpressure disconnector isolated terminal (IP20).
- Further, these are in compliance with set industrial standards.
- Up to 6 kvar per case for single-phase applications; high pulse current withstanding capability (200*IR); long useful life > 100,000 hours; up to 30 kvar per case for three-phase applications.
- Safe usage and maintenance-free; low weight and compact volume; reduced mounting costs; easy installation and connection; cost effective.
- Used for power factor correction (PFC); automatic switched capacitors banks; fixed PFC applications, e.g. motor compensation; de-tuned PFC systems.

About the company: Standard Capacitors was established in 1976, to provide capacitors for different applications for power consumers and industries. The capacitors offered are used in various electrical applications.

Contact:
Standard Capacitors, New Delhi
Tel: 011-65181490, 27181490
Mobile: 09810049253, 09958210660
Email: standcap@gmail.com

DOUBLE ROLLER CRUSHER



Sri Jayam Engineering Works provides double roller crushers.

Features:

- These crushers are widely used in processing technology applications such as crushing soft and hard materials.
- Quality analyzer checks the quality of products and identify that they are fulfilling the international quality standards.
- High tensile strength; corrosion resistance; crushing ratio - approx 1:6; throughout capacity – up to 2.000 t/h; feed material – limestone, gypsum, coal, coke and different types of ore.

About the company: Incepted in 2006, Sri Jayam Engineering Works is a manufacturer, exporter and supplier of a comprehensive range of industrial process equipments and material handling equipments. These are widely used in industries such as automobile, paper, tea and coffee processing, and general engineering industries.

Contact:
Sri Jayam Engineering Works, Rajapalaiyam
Mobile: 09443292506, 08220576179
Email: info@pulverizermachinery.com

HEAVY DUTY BATTERY PALLET TRUCK ND-EP-RPT SERIES

Nido Machineries offers heavy duty battery pallet trucks.

Features:

- The AC driving motor provides constant strong operation and is maintenance free; standard equipped with the large 210Ah capacity battery; sideways battery design is convenient for the customer to replace the battery and the metal cover provides strong protection.
- Size reduced cover plate, more sense of design, easier maintenance; full steel cover protects from scrapes, reinforced safe assurance to core parts.
- Laser cut frame parts, high accuracy, neat and clean; 30% faster in fork falling, designed for saving time.
- Innovative slide rail lifting structure, lower abrasion, improved power efficiency, designed for handling heavy usage.

About the company: Nido Machineries Pvt Ltd is the Indian division of ALE International LLC, a UAE based group. NIDO is the supplier of all equipment required post production till dispatch weigh/ fill/ pack/lift/move.

Contact:
Nido Machineries Pvt Ltd, Mumbai
Tel: 022-42256225, 42256211 Mobile: 08691018201
Email: sales@nidoworld.com

ULTRASONIC MOLD CLEANING MACHINE

Waveultrasonics provides ultrasonic mold cleaning machines.

Features:

- Digital temperature controller; low noise operations; low maintenance required; low noise ultrasonic machines (noise level less than to 70 dl certified).
- High temp ultrasonic machines (with a temp range up to 80°C for continuous process); chilling ultrasonic machine (with a temp less than @10°C from normal room temp).
- Digital temp controller; low cost and optimised machine for specialisation requirements; power controller – step less 10% to 100% power control which allows to select the power level; tank size – 9"x6"x4"(H); tank – 3.3 litre; U/s power – 100 watts.

About the company: Established in 2010, Waveultrasonics is a manufacturer, supplier and trader of cleaning machines and equipment, ultrasonic tanks, ultrasonic cleaning machines and laboratory cleaning machines.

Contact:
Waveultrasonics, Bengaluru
Mobile: 09902910322
Email: waveultrasonics@gmail.com,
info@waveultrasonic.com

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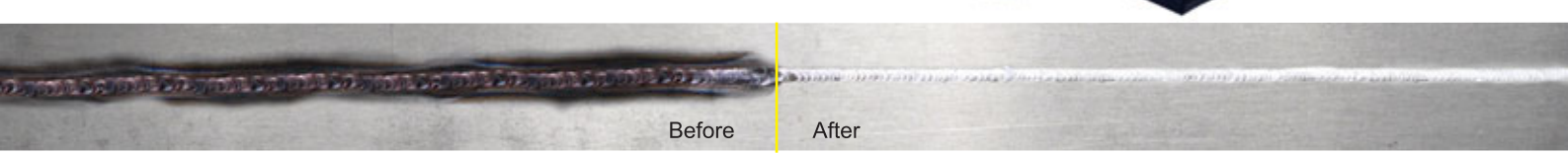
MULTI MARK

The Multi Mark marking device is fitted with inverter technology and touch screen. This happens through an instant electro-chemical reaction that involves lower costs than serigraphy or laser marking and guarantees high definition for the marking on surfaces like: stainless steel, galvanized steel, chrome steel, carbon steel, aluminium, brass, chrome plastic, copper, titanium.

video



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MULTI MILL

Rikon Pharma offers multi mills.

Features:

- A multi mill is a self contained portable unit useful for high speed granulating, pulverizing, mixing, shredding, chopping, etc. As compared to the four common principles of size reduction, this machine utilities the principle of variable force swing hammer blades having both knife and impact edges rotating with a carefully selected screen to control reduction.
- Flow path of material in vertical rotor machine is streamlined; during comminuting, material entering the chamber travels to the periphery and passes through the screen tangentially and radially avoiding choking and rise in temperature.
- All contact parts Ss304 / 316 / 316L AISI quality; machine rated for continuous operation; various combinations of screens / speeds / number of blades / direction of rotation blade, can be selected.
- **About the company:** Rikon Pharma is a manufacturer of pharmaceutical equipment produced using high-grade raw material.

Contact:
Rikon Pharma, Thane
Mobile: 09819588846
Email: info@rikonpharma.com

STEAM RADIATORS

Thermal Energy Systems offers steam radiators.

Features:

- These radiators are used for multiple applications for hot air; thermic fluid oil radiators are used for continuous flow of air at a desired temperature.
- Radiators are also made suitable for heating with steam or hot water; specially selected extended surface tubes are used as heat transfer elements; special care is taken to prevent the material from corrosion, ensuring durability.
- Material of construction of tubes is carbon steel seamless; high efficiency aluminium fins are used; the normal working pressure is 8 kg / cm2, however the units are tested at a pressure of 16 kg/cm2 air side/ on tube side for leak free operation.

About the company: Established in 2011, Thermal Energy Systems is engaged in manufacturing and exporting aluminium extruded finned tubes and heat exchangers.

Contact:
Thermal Energy Systems, Chennai
Tel: 044-42112599
Mobile: 09487117599, 09500780327
Email: thermalenergysystems@gmail.com

INDUCED DRAFT COUNTER FLOW COOLING TOWER

United Cooling Systems offers induced draft counter flow cooling towers.

Features:

- The cross flow cooling towers have a mechanical fan and the water is cooled with the help of a mechanical fan motor; mechanical cooling towers provide better thermal performance, low drift loss suitable for the current water scarced world.
- These cooling towers have the highest delta T, greater efficiency and lower and easy maintenance cost; these cooling towers have both single side and double side air intake.
- The woods used for manufacturing the cooling towers are completely seasoned, chemically treated and light-weight.
- The splash bars, drift eliminators, fan ducts and complete structures are made out of the same wood. high quality fan blades; efficient working; good price.

About the company: United Cooling Systems Pvt Ltd is a manufacturer, exporter and supplier of cooling towers, heat exchangers, industrial coolers, etc.

Contact:
United Cooling Systems (P) Ltd, Coimbatore
Tel: 0422-2676082, 2673175
Mobile: 09443301342
Email: info@unitedcoolingtower.com

FRP COOLING TOWER, SQUARE TYPE

Jeni Equipments offers FRP cooling towers, square type.

Features:

- Weather resistant, low power consumption, durable finish standards and corrosion resistant; square shape cooling towers operate on the induced draft counter flow principle operation.
- The fan creates air movement vertically up the tower across the fills in opposition to the water flow; hot circulating water enters the water inlet headers and sprays through non clogging PP spray nozzles.
- Water distribution is even; well designed PVC drift eliminators are fitted to reduce drift losses.
- Square fibre glass cooling towers are provided with inspection door for easy access for inspection and maintenance; square tower can be installed in multi cell also.

About the company: Jeni Equipments, founded in 2008, manufactures cooling towers, heat exchangers, hydraulic silencers, air compressors, process chillers, gas storage tanks and many more products.

Contact:
Jeni Equipments, Coimbatore
Tel: 0422-4377056
Mobile: 09585531978, 09578680811
Email: sales@jeniequipments.com

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Active Tawers

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- ACTIVE MAG
- ACTIVE START
- MTS-CO2
- SP-MAGII
- Normal Pulse
- HD-Pulse

PRE-ADVANCED

Tawers

- MTS-CO2
- SP-MAGII
- Normal Pulse
- HD-Pulse
- Lift Start

ENTRY LEVEL

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- SP-MAGII

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ACTIVATED CARBON FILTER

SG Enviro Technologies offers activated carbon filters.

Features:

- These products are widely used to eliminate turbidity and odour in water.
- They are also used to remove contaminants and impurities hence providing cleaner water that can be used for various industrial purposes.
- Rigorously tested by experts to ensure high standards of quality and safety
- Fine performance; odor control; good clarity; long life; easy to erection, installation; material – MS with Internally FRP coating, SS 304; liquid flow as per requirements; pressure for design – max 10 kg/cm2; improved iodine value activated carbon.

About the company: SG Enviro Technologies, commenced operations in 2008 as manufacturer, supplier and exporter of air pollution control equipment, waste water treatment plants and their spares. The comprehensive product portfolio includes air pollution control system, water treatment plants, sewage treatment plants and industrial effluent treatment plants.

Contact:

SG Enviro Technologies, Coimbatore
Tel: 0422-6552355 Mobile: 09363261222
Email: webmanager@pollutioncontrolequipments.net

ASPHALT DRUM MIX PLANT

Hindustan Road Equipments offers asphalt drum mix plants.

Features:

- In order to meet up the set quality standards, the procured plant is designed with modern drum mix technology due to which it is able to proffer high production rate.
- The offered drum mix plant is tested on a number of parameters to assure flawless performance.
- Computerised control panel board; proper asphalt coating and saving; high production rate; easy operation and less maintenance; designed for the international market; modern drum mix technology.
- High production rate; portable stationery; low dust emissions; proper drying and homogeneous mixing of aggregate.
- Proper asphalt coating and saving; easy to operate; less fuel consumption; fully automatic computerised control panel board; accuracy in quality control.

About the company: Hindustan Road Equipments, commenced functioning in 2007 as an exporter and trader of a range of road construction equipment.

Contact:

Hindustan Road Equipments, Ahmedabad
Mobile: 09725044815
Email: info@hindustanroadequipments.com

INDUSTRIAL MISTING SYSTEM

Inventa Cleantec offers a wide range of industrial misting systems.

Features:

- 70 bar FOG modules ECO (for line) from 12 to 470 nozzle; galvanised plate frame with stainless steel cover high pressure pump with 3 ceramic pistons and brass head 3-phase electric motor 1450 rpm, 50 Hz unloader valve.
- Solenoid valve 230V-50 Hz, low pressure inlet water solenoid valve 230V-50 Hz, high pressure to unload the HP line.
- Pressure switch in low pressure for lack of water; electric board complete with on/off thermal switch, remote control switch, fuses, and electrical safety features.
- Transformer 380/220V is ready to be connected to device (thermostat, humidistat and other safety devices).

About the company: Inventa manufactures cleaning equipment, cleaning machines, upholstery cleaners, vacuum cleaners, wet vacuum cleaners, dry vacuum cleaners, etc.

Contact:

Inventa Cleantec Private Limited, Noida
Tel: 0120-4727210, 4727272 Mobile: 09910486950
Email: inquiry@inventa.in

ULTRA HIGH PRESSURE WATER BLASTER

Magna Cleaning Systems offers ultra high pressure water blasters.

Features:

- The product finds application in the removal of rust, rubber, chemical, and oil paint without causing any damage to the surface.
- It has recently replaced the use of conventional pneumatic sand blasting or shot blasting technology usage.
- Safety valve and rupture disc; booster pump; fluid dampened pressure gauge; glycerine filled pressure gauge.
- Pump: triplex reciprocating pump with ceramic pistons and stainless steel pump head; cooling: integrated internal cooling; inlet pressure: water inlet to the hp pump through a booster pump; mounting: trolley mounted.

About the company: Magna Cleaning Systems was established in 2001 and offers a broad selection of premier heavy duty high pressure water jet cleaners, high pressure hot water and steam jet cleaners, wet vacuum cleaners, road sweeping machines, etc.

Contact:

Magna Cleaning Systems Private Limited, Navi Mumbai
Tel: 022-25411454 Mobile: 09320033242
Email: info@magnacleaning.com

INDUSTRIAL DISTILLATION COLUMN

Sunrise Process Equipments offers a wide range of industrial distillation column.

Features:

- Accurately engineered from certified metal alloys for storing volatile liquids in petrochemical, chemical, pharmaceutical and distillation industries, this storage equipment can be made available in custom options as per the given needs.
- The industrial distillation columns are stringently inspected to assure their compliance with SS304 and SS316 standards of quality.
- Enhanced chemical resistance; low maintenance; superior corrosion resistance; chemical resistance; temperature resistance; enhanced mobility; corrosion resistance; optimum durability.

About the company: Sunrise Process Equipments has 16 years of presence in the domain of vacuum drying equipment. It is an exporter and manufacturer of rotary vacuum dryer. These dryers are suitable for drying and mixing material in the form of powder or granule.

Contact:
Sunrise Process Equipments, Mumbai
Tel: 022-28993705/06/07
Email: speqco@gmail.com

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PET BOTTLE FILLING MACHINE

Medi-Pack Process & Technologies offers pet bottle filling machines.

Features:

- These machines provide for fully automatic operations and feature stainless steel construction finish for durable as well as long lasting performance.
- Some of the machines' features include suitability for filling of liquid, pasting products and other processed materials; multi filling nozzle support, easy adjustment for different bottles, auto cleaning support, adjustable filling speed as per material density and viscosity, choice of adjusting conveyor speed, auto counting system and others.
- Industrial bottle filling machines work on the volumetric principle with diving nozzles; the unit is made compact, versatile and enclosed in stainless steel elegantly matt finish body of SS slat conveyor, reciprocating nozzle with self-centering devices and SS Syringe.
- Conveyor drive consists of A/C motors with synchronised variable A/C frequency drive; ± 1% filling accuracy on single dose; no bottle no filling system.
- Rigid vibration free construction for trouble free performance; SS elegantly matt finished body; elegant and easy control panel for total control on operation; minimum changeover time from one size to another container or fill size.
- Self lubricating UHMW-PE guide profile for SS slat chain provides low friction wear surface, smooth and noiseless conveying; error code display on AC frequency drive on control panel; drain tray around machine platform.
- Drip tray under the conveyor; pneumatic bottle stopping arrangement; two synchronised A/C drives for main motor and conveyor belts; safety guard for conveyor gear box, motor and pneumatic cylinders.
- MCB for over load protection and prevention against short circuit; inbuilt protection against over current, voltage fluctuation, short circuit in AC frequency drive.

About the company: Since 2010, Medi-Pack Process & Technologies is a manufacturer, exporter and trader of supreme quality bottle capping machines, bottle filling machines, bottle labeling machines, bottle washing machines, bottle inspection machines, packing conveyor belts, automatic liquid filling lines, turn tables, etc.

Contact:

Medi-Pack Process & Technologies, Ahmedabad
Mobile: 09979929599, 07984755621
Email: info@medipackprocesstechnologies.com, sales@medipackprocesstechnologies.com

LINEAR BOTTLE WASHING MACHINE

Laxmi Pharma Machines offers linear bottle washing machines.

Features:

- The offered linear bottle washing machine uses high pressure spray nozzles that ensure a perfect wash to the vials.
- No requirement of changing parts for washing of bottle, thus saving time of change over.
- As all parts that come in contact with wash zones/jet are made in SS 316 material, this also ensures durable finish values in these machines.
- High pressure spray nozzles ensure perfect wash of vials; totally fabricated from SS materials, including the basic frame; no change parts required for washing of bottle, saving time of change over.
- The machine is suitable for handling wash of round and flat glass bottle; water re-cycling arrangement is possible as per requirement.

About the company: Laxmi Pharma Machines makes a comprehensive range of superior-grade sealing, labeling and allied machinery.

Contact:

Laxmi Pharma Machines, Ahmedabad
Tel: 079-22900488, 22900588, Mobile: 09825723235
Email: sales@laxmipharmamachines.com

ULTRASONIC MOLD CLEANER

Leela Electronics offers ultrasonic mold cleaners.

Features:

- Ultrasonic mold cleaners are easy to use and assure 100% effortless cleaning.
- Sizes ranges from tabletop tank and generator systems that are effective at cleaning inserts, core pins and small molds, to fully integrated wash/rinse/drying systems for larger molds.
- Aqueous cleaners, solvent base cleaners, vapour degreasing, degreasers, spray washing machines; micro-controller base digital timer; with latest Mosfet/ IGBT base technology; automatic frequency tuning for maximum output.
- Low transducer losses permit maximum cleaning action; auto degassing; modular generator for easier modification/servicing; rugged and easy to clean stainless steel housing.
- Extensively protected electronics circuits for longer and safe operation.

About the company: Leela Electronics (Leela Sonic) is engaged in the development and manufacturing of ultrasonic cleaners since 2007.

Contact:

Leela Electronics, Mumbai
Tel: 0251-6515131, 2212928 Mobile: 09820574207
Email: leelasonic@gmail.com, sales@leelaelectronics.in

FILTER CLEANING MACHINE

Ultramax Hydrojet provides filter cleaning machines.

Features:

- The offered filter cleaning machines are used for washing medium and small sized AHU filter with micron size range from 3μ to 20μ.
- High pressure efficient water spray cleaning; washing and drying in a single chamber; multi chamber machines available; air pre cleaned; water spray and hot air drying process.
- Multi program can run in the same machine for different types of filters and different process; after loading, the complete process is automatic, including door closing, cleaning, drying process and door opening; no powder dust on cleaning room.
- Less hazard to operator; user friendly and PLC control; FLP version also available; complete SS 304 construction; energy efficient; application specific design.

About the company: Ultramax Hydrojet Pvt Ltd offers component cleaning & washing machines, parts cleaning machines, degreasing machines, etc.

Contact:

Ultramax Hydrojet Pvt Ltd, Chennai
Tel: 044-42852262, 42852264, Mobile: 08903335093
Email: marketing@hydrojet.co.in

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HEAVY DUTY VACUUM CLEANER

Biznustek Systems offers a wide range of quality heavy duty vacuum cleaners.

Features:

- The turbines adopted in these machines are specifically designed and developed for handling very high vaccum ranges and flow rates.
- These turbines comply to international standards; the prime mover use in these systems is certified for CE standards.
- These machines are robust and have a high operational efficiency; they produce very low sound levels of about 60 to 65 db.
- The range of heavy duty vacuum cleaners is used in diverse sectors such as engineering, foundry and abrasive industries, PCB, rubber industry, food and pharmaceutical.
- These cleaners can be customised as per requirement.

About the company: Biznustek Systems Pvt Ltd is engaged in manufacturing of industrial cleaning equipment.

Contact:

Biznustek Systems Private Limited, Bengaluru
Tel: 080-23409666, 23148839
Mobile: 09481247171, 09448372941
Email: sales@benvacsystems.com

SINGLE DISC MACHINE (SUPER DISC DUO CLEANING MACHINES)

DC Associates offers single disc machines (super disc duo cleaning machines).

Features:

- This Swiss precision high quality single disc machine with the ability to switch RPM as per the required operation.
- It has low noise levels and is optimum for inside use; can do a job of two machines due to its dual-RPM ability.
- Poly V-belt drive and off-centric motor provides for extremely balanced and user-friendly operation.
- This dual speed machine offers the choice of either 180 or 380 RPM through a switch; extremely low noise; off-set motor for balanced operations.
- Centre water feed; ergonomic handle with controls; strong aluminum alloy chassis rust proof.
- Basic essential accessories included as standard with machine; a range of optional accessories.

About the company: DC Associates offers a range of aroma diffusers, aroma essential oils, industrial equipment and house keeping products.

Contact:

DC Associates, Chandigarh
Tel: 0172-2660448, 2668293, Mobile: 08146146975
Email: jasneetsingh08@gmail.com

ELECTRO STRIPPING UNIT

Fine Rhodium offers electro stripping unit.

Features:

- The offered products are rigorously checked by quality controllers by conducting various quality assurance procedures, to ensure a defect-free range.
- To manufacture these electro-stripping units in compliance with the industry set norms, cutting-edge machinery is used.
- Power input – 220 /110-volt single phase; power output – 30 volt / 100 amp; machine size – 1050 mm x 750 mm x 750 mm.
- Approx weight – 85 kgs; tank shape – rectangle; tank capacity – 5 liters (approx); accessories – 1 titanium jig is given of 6 hooks 250 WT.
- Silicon with temperature control; process timing – 1 to 5 mins depending on items; recovery – full recovery (weight loss is saved); can be worked with both casting as well as handmade jewelry.

About the company: Fine Rhodium was established in 2001 and is engaged in manufacturing, exporting and retailing electroplating equipment.

Contact:

Fine Rhodium, Mumbai
Tel: 022-28065612
Mobile: 09920864003
Email: virmati2000@yahoo.com

AUTO CLAMP VACUUM WAX INJECTOR

Ankitst Exim Inc offers auto clamp vacuum wax injectors.

Features:

- Featuring user friendly interface, these machines deliver optimised performance at much lower operational costs.
- Good filling vacuuming of the mold before injection ensures good filling for fine filigree and difficult designs; accurate temperature control.
- Wax tank temperature and nozzle temperature are individually controlled so that accurate injection temperature is obtained.
- This model has a 99-hour 'heater-on timer' so that injection work can be started at a specific time; it will improve electricity cost and will increase efficiency.

About the company: Ankitst Exim Inc is engaged in manufacturing, exporting, importing and stocking of casting machines, polishing and filling machines, consumables for the jewellery industry, lasers, dental units and industrial cleaning and other process machines.

Contact:

Ankitst Exim Inc, Mumbai
Tel: 022-42724057, 42724061
Mobile: 09821124093, 09167694569
Email: ankitst01@gmail.com

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OVERBAND MAGNETIC SEPARATOR

Permanent Magnets offers a wide range of overband magnetic separator.

Features:

- Overband magnetic separators are placed above open conveyors to arrest ferrous objects and fines found in grains, feedstuffs, raw and processed products, dry chemicals, salt, ceramics, clinkers in cement industry, coal conveying in power plants and many other products.
- They can be used to separate big ferrous particles like lugs, nuts, bolts, rivets, MS plates, angles, channels and tools from the moving material over the conveyor belt.
- Flux density – 1500 ± 200 gauss; attraction distance – up to 300mm/12inches; height of overband/ suspension magnet is 245 mm.
- Maximum operating temperature 450°C; best grade st ferrite magnets used in making of overband magnet.

About the company: Established in 1960, Permanent Magnets Ltd is engaged in manufacturing of magnetic assemblies and systems.

Contact:

Permanent Magnets Limited, Thane
Tel: 022-29452127, 29452121, Mobile: 09930142441
Email: sales@pmlindia.com

CONTINUOUS CHIP WRINGERS

Amey Engineers offers continuous chip wringers.

Features:

- The wet chips are continuously fed in the chip wringer with the use of a screw/belt/bucket conveyor.
- The machine is smartly designed in such a way that the time for which chips are held in the machine is just enough to separate out the oil to 80-90% dryness.
- At output a side trolley is kept to collect the dry chips or these are transported to the desired area through conveyors; the offered systems directly load the chips into a waiting truck.
- Because of the minimal servicing requirement and nearly none mandatory periodic expenses, the cutting oil reclaimers recover their cost within 2 years.

About the company: Amey Engineers is a manufacturer of automatic shredders and cutting oil reclaimers. The company also offers industrial centrifuges, pharma equipment, automatic shredders, pharma scrap disposal machines, other special purpose machines, etc.

Contact:

Amey Engineers, Thane
Tel: 0251-2871114 Mobile: 09821287910
Email: ameyengr@vsnl.net

HYDRAULIC SCISSOR LIFT TABLE

Amit Engineering provides hydraulic scissor lift table under numerous specifications.

Features:

- These tables are equipped with adjustable trap prevention safety trip bars; widely demanded for their operational fluency, ease of operation and safe usage, the offered products are highly popular in the market.
- Comprehensive program of accessories and options for customisation of the lift tables; 24 V DC control unit and operating device with deadman's switch.
- Safety spacing between all moving parts of the lift table; IS approved electrical system; overload protection.
- Adjustable trap prevention safety trip bars on all four sides of the platform; lift table load capacity – 200 to 10,000 kg; lift table platform length – 900 to 5000 mm in standard model; DC control unit – 24 V.

About the company: Established in1995, Amit Engineering is a manufacturer, service provider and supplier of a fine compilation of material handling equipment.

Contact:

Amit Engineering, Pune
Tel: 020-27491070 Mobile: 09422306343
Email: sales@amitlifttrucks.com

PACKING CONVEYOR

Anmol Pharma Equipments offers packing conveyors.

Features:

- The packing conveyor belt has a stainless steel table top with moving endless sandwich belt in the centre.
- Tabletop is fixed to the same structure made out of a SS square pipe and supported on adjustable bolts.
- Tabletop is of 12 inches working space on both sides of the conveyor belt for final visual inspection and packing into the box.
- The conveyor belt brings the container or products from the labeling/blister/strip machine operator in turn pickup.
- These bottles/products visually inspect the bottles/ products and doing necessary action like primary packing, secondary packing, picking and placing at proper place.

About the company: Anmol Pharma Equipments is primarily engaged in conceptualisation, process engineering designing, equipment designing, fabricating, supplying and commissioning galore of pharmaceutical and chemical processing plant.

Contact:

Anmol Pharma Equipments, Thane
Mobile: 09867154769
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DKHotta@wendtindia.com

EOT CRANES

Apex Industrial Equipments offers quality range of EOT cranes.

Features:

- Light weight, with easy operations and maintenance, the provided cranes are available in numerous specifications as per the demand of customers.
- These cranes are manufactured by using leading techniques and optimum quality material under the strict supervision of professionals.
- Offered cranes test on various quality checking procedures to assure that it is free from any kind of manufacturing defect.
- Capacity of standardised model of hoist – 0.5 tons to 30 tons; span range – 5 mtrs to 40 mtrs; rope drum – MS fabricated and stress relieved; motors – standard IEC frame motors; brakes – 150% fail safe AC disc type.

About the company: Apex Industrial Equipments is a manufacturer, exporter and supplier of a wide array of material handling equipment. The product range includes material handling cranes, lifting machines and rope hoist.

Contact:

Apex Industrial Equipments, Chennai
Tel: 044-23700083 Mobile: 09444077083
Email: apexcranes01@gmail.com

HORIZONTAL WINDING MACHINE

Beijing Holland Tech Co offers high quality horizontal winding machine (BJ1WRX).

Features:

- This machine includes chuck rotation system, mobile expandable plates, pneumatic conductor clip device, operation platform, coil platform, decoiler and electrical control system.
- These machines are provided with high accuracy encoder for the major motor, which realises the logic relation on the coils' number and also the position of coil pressing head and the platform.
- The vertical movements of the operation platform as well as the coil platform are driven together by servo motors along with self-compensation function; this is further attached with ball screw and reducer.
- The rotating synchronisation and an automatic positioning accuracy and reliability are recognised by software, special brake device and servo motors.

About the company: Beijing Holland Tech Co Ltd is a supplier of unmatched industrial process machines.

Contact:

Beijing Holland Tech Co Limited, Mumbai
Tel: 022-28222627, 28229746, Mobile: 09892820892
Email: indiaoffice@bjholland.com

TURNING TABLE

Belton India offers turntable with metallic conveyor belt.

Features:

- This radius conveyor system is specially designed keeping in mind the requirements of biscuit, confectionery and other food processing companies.
- Where other turntable manufacturers use cotton/PU belts, metallic conveyor belts are used on the offered turn tables.
- These metallic belts have longer life than PU and other belts, so it not only cuts the cost compared to other belts which require frequent replacement, but also provides extra cooling time in the production process of products like biscuits and confectionery.
- Fabricated heavy body for smooth functioning; pre-installed with stainless steel belt; Italian make electric motor with gear box; easy height adjustment via screws; stainless steel guards and catch trays
- AC frequency drive for speed variation; metallic belt has longer life than PU and other belts.

About the company: Belton India is engaged in manufacturing, supplying and exporting large range of conveyor belts.

Contact:

Belton India, Mohali
Tel: 0172-2212125, 2211335, Mobile: 09417017335
Email: info@beltonindia.com

HYDRAULIC JACK

Bemco Jacking Systems offers hydraulic jack.

Features:

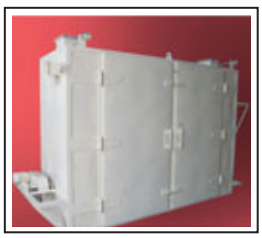
- These hydraulic jacks can be used in a wide variety of situations such as routine maintenance, production, industrial body building, frame works, shipyards, and heavy civil constructions such as bridges; these can also be used in hydraulic presses and for other special purposes.
- Heat treated alloy steel body; ram return by spring allows working in any position; hard chrome-plated ram for surface protection
- Non-skidding, heat treated saddles; collar threads, base mounting holes enable easy fixturing; designed for use in all positions
- Tilting saddles are available on request; heavy duty, pre-tensioned springs for fast retraction; max working pressure – 700 bar
- Cylinders tested as per ASME B30.1; capacity – 10 to 100 ton; stroke – 50 to 300mm; max working pressure – 700 bar.

About the company: Bemco Jacking Systems Pvt Ltd manufactures high-quality mechanical lifting jacks, industrial hydraulic jacks, hydraulic hand pump, etc.

Contact:

Bemco Jacking Systems Pvt Ltd, Belgaum
Tel: 0831-2441019, 4202743, Mobile: 09844054864
Email: sales@bemcojack.com

TRAY DRYERS



Airtech Engineers offers a wide range of tray dryers.

Features:

- Drying is carried out by well-designed forced cross flow type air circulating fans; air is heated by passing over to strip heater or steam heating coil and the heated air passes over the trays.
- Carries moisture from the material and once again passes over the heater fitted on the opposite side, thus completing the circulation.
- Through this forced air circulation and by manipulating the inlet and outlet damper a very high rate of heat transfer can be achieved; drying ovens are constructed from strong MS angle iron frame work and MS sheet forming double wall.

About the company: Established in 1995, Airtech Engineers manufactures a wide range of centrifuges (hydro extractor), cake lifting type centrifuges, pressure vessels, industrial exhausters, tray dryer, centrifugal fans, boilers, etc.

Contact:

Airtech Engineers, Ahmedabad
Tel: 079-25854303
Mobile: 09428912922, 09377671601
Email: info@airtecheng.co.in

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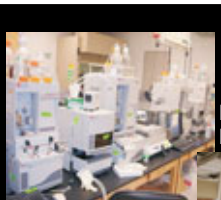
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MS TAIL BREAKER

Bentex Industrials is offering high quality MS tail breaker.

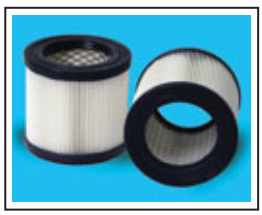
Features:

- The offered assortment of tail breakers provides hassle free operation and flawless finish.
- Material – MS prime plate, graded cast iron; sizes – 205 mm to 355 mm (as per requirement of mill)
- Chocks and bearing – steel chock S fitted in tail breaker with spherical roller bearing; shaft – jointing with cardon shaft
- Gear box – includes forged steel single helical gears with all accessory; operation – pneumatic cylinder control through DC or AC drive

About the company: ISO 9001:2008 certified Bentex Industrials Pvt Ltd was established in 1996. It is a manufacturer, trader, supplier, exporter and service provider of a range of hot and cold steel rolling mill plants, machinery and accessories. The offered product range comprises of rolling mill, wire rod rolling mill and steel rolling mill stands.

Contact:
Bentex Industrials Pvt Ltd, Fatehgarh Sahib
Mobile: 09815067929, 09915717390
Fax: 01765-257678
Email: info@bentexindl.com, bentex96@gmail.com

FILTERS



Bestech Water Treatment is offers filters which are designed for efficient and effective refinement of baths with minimal downtime.

Features:

- Filtration needs are strict and diverse; the offered filters provide superior filtration-surface areas per unit volume, thus enabling excellent performance with easy maintenance.
- Solid particles removal down to 0.3 micron can be dealt by micro filters; 100 per cent oil removal can be achieved by using activated carbon/alumina filters; 304/316 stainless steel construction, borosilicate/ ceramic/fiber/SS filter elements
- 100 per cent moisture removal required for instrumentation etc, can be met by silica gel filters; air requirement for special applications such as painting, varnishing, mirroring, etc. can be met by ultra clean filters
- Advanced use of compressed air having produced special requirements of quality of air.

About the company: Bestech Water Treatment Pvt Ltd supplies a wide range of water treatment plants.

Contact:
Bestech Water Treatment Pvt Ltd, Ahmedabad
Tel: 02717-241268, Mobile: 09825014859
Email: estechwt@vsnl.net

SCISSOR LIFT PLATFORM, HYDRAULIC

Besto Handling System Co offers hydraulic scissor lift platform.

Features:

- This product is put through rigorous testing and quality evaluations prior to delivery.
- The lift tables are widely applicable in loading and unloading of tools, dies and instruments.
- It is also used in loading and unloading from trucks and in other maintenance jobs.
- Crafted from quality raw material, these tables are available in various sizes, capacities and lifting heights.
- Rugged construction; long lasting; available in customised options of size, capacity and height; easy to use

About the company: Established in 2001, Besto Handling System Co is a manufacturer and supplier of dock levellers, scissor lifts, car lifts, semi electric, electric and manual stackers, industrial material handling equipment, pallet trucks, and lift tables. These products provide high performance, easy operation and longer service life.

Contact:
Besto Handling System Co, Chennai
Tel: 044-26366602, Mobile: 08608699788
Email: sales@bestohandling.com

HARDNESS TESTER (PORTABLE TYPE), MHT-10

Bhagwati Hardware & Mill Store offers hardness tester (portable type), MHT-10.

Features:

- LCD display of 128×64 matrix with back-light, showing all functions and parameters; converts to all common hardness scales (HV, HB, HRC, HRB, HRA, HS)
- English display, easy and convenient menu operation; powerful PC software available with USB 1.0 interface and USB with protective membrane
- 7-type of impact device optional, which doesn't need to be recalibrated while changing; memory of 600 groups data (impact times - 32~1); lower limit setting and sound alarm
- Material of cast steel is added; HB values can be read out directly when D/DC impact device is used to measure 'cast steel' work piece
- Printer is separated from main unit and copies of testing results can be printed as required.

About the company: Bhagwati Hardware & Mill Store imports and exports a wide range of precision measuring and testing equipment.

Contact:
Bhagwati Hardware & Mill Store, Delhi
Tel: 011-23219311, 66405958, Mobile: 09212012856
Email: sandeep@bhagwatimail.com

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CENTRIFUGAL DRESSER OR SIEVER MACHINE

Bharat Heavy Machines offers range of centrifugal dressers or siever machines.

Features:

- These centrifugal dressers are very robust and high strength machines that are highly appreciated for excellent functionality with vibration free structures.
- The centrifugal dressers are fitted with high grade worn conveyors with high quality steel frames.
- These centrifugal dressers have corrosion resistant beaters that work rapidly and efficiently.
- Premium quality; supreme strength; very robust; corrosion resistant body.

About the company: Established in 1982, Bharat Heavy Machines is a manufacturer, exporter and supplier of ribbon blender, impact pulveriser, ball mill, air lock, bag house, grinder and hammer mill. The product range comprises of vertical blender machine, automatic chilly grinding plants, automatic turmeric grinding machines, pulse jet filter unit, rotary air lock, blow through type rotary valve, bucket elevator, industrial belt conveyor, etc.

Contact:

Bharat Heavy Machines, Kanpur
Mobile: 09336111261, 09935424256
Email: bhmgroup@gmail.com

SQUIRREL CAGE INDUCTION MOTOR

Bharath Electric Motors offers squirrel cage induction motor for electrical lab.

Features:

- This is an educational model suitable for demonstrating to students the complete knowhow of the basics, components, starting methods, wear-tear and maintenance of these motors packaged in small rating.
- Students can make connections of their own with the help of the terminations provided for study of features, i.e. starting methods, speed control, speed-torque, effect of phase angle, study of cogging/crawling.
- Effects of single phasing, effect of voltage imbalance operation, blocked rotor test; 3 phase AC squirrel cage induction motor TEFC, IP44, IC01, B3, Class-B, SI, casting body.

About the company: Bharath Electric Motors is engaged in manufacturing and supplying a wide array of DC motor, AC motor, phase transformer, slip ring motor, squirrel cage induction motor, resistive load bank, etc.

Contact:

Bharath Electric Motors, Coimbatore
Tel: 0422-2250948 Mobile: 09443720273
Email: thomas_bem@yahoo.co.in

HYDRAULIC CYLINDER

Bhatawadekar Bros is engaged in providing high-performance hydraulic cylinders.

Features:

- These hydraulic cylinders are used in civil engineering, construction equipment and manufacturing machinery; they also find application in fluid power when force requirement is on the higher side.
- Square construction assembly and bolting using tie rods; simple construction enables easy change of seals
- Available in bore sizes of 40 mm to 200 mm and pressure up to 220 bar; mounting accessories can be provided on such as flange, pivot, foot brackets, trunnion
- Cushioning possible on both ends; double acting - forward and return motion by oil; single acting- forward stroke by oil and return by load exerted on the piston rod; forward and return motion by oil; easy to service; flawless fabrication.

About the company: Bhatawadekar Bros Pvt Ltd manufactures a wide range of filter press, hydraulic crane, crane parts, stainless steel trolleys, component for wagon tippler, stilling machine, etc.

Contact:

Bhatawadekar Bros Pvt Ltd, Mumbai
Tel: 022-26672901, 26672166, Mobile: 09869931318
Email: bandco@vsnl.com

NAUTA DRYER MIXTURES

Bifriends Engineering Works offers a wide range of nauta dryer mixtures.

Features:

- The offered product is widely used for the purpose of gentle mixing of chemicals; this dryer finds application in several pharmaceutical and chemical industries.
- Gentle action on product through low power consumption; fast mixing times with a high degree of mixing accuracy; totally sealed and protected from contamination; quick loading and unloading
- Provision of sampling nozzle without breaking vacuum; compact design gives excellent appearance to equipment; designed and manufactured to suit critical hygienic conditions of pharma and food industries
- Conforming to CGMP standards; the unit is completely air tight hence no pollution in environment; self-emptying with minimum product hold up; useful for full solvent recovery; dust-free operation
- Vacuum can be employed hence drying is fast.

About the company: Bifriends Engineering Works manufactures a wide array of industrial dryers.

Contact:

Bifriends Engineering Works, Thane
Tel: 0251-2871511, 2871683, Mobile: 09870703123
Email: bifriends@bew.net.in, bifriends@vsnl.net

PVC CHAINS

Continental Commercial Company designs, manufactures and offers PVC chains,

Features:

- These are made from UV protected PVC; plastic chains in solid 7 mm thickness material are used for crowd control, displays, gardens, and numerous non-load bearing uses.
- These PVC chains are available in a bag of 100 mtr length of the chain, in various colours; plastic chains in solid 4mm thickness material are used for toys, pets, displays, gardens, and numerous non-load bearing uses.
- These PVC chains are available in a bag of 100 mtr length of the chain, in various colours.

About the company: Continental Commercial Company is a manufacturer, supplier, retailer, wholesaler and exporter of varied types of machine lamps, coolant pipes, collets and other industrial products. Equipped with advanced machines and tools, the company's manufacturing unit can meet the bulk requirements of customers, backed by a dedicated workforce.

Contact:

Continental Commercial Co, Mumbai
Tel: 022-23433808, 23400875 Mobile: 09820232852
Email: conticomco@vsnl.net

FUMES & DUST CONTROL

We manufacture and export a wide range of Fume Extractors, Mist Collectors, Dust Collectors, Self-balanced Extractor Arms, Electrostatic Filters, Ventilation Systems, Clean Room Systems working on the Electrostatic principle under the brand name of Fumekiller™, Dustkiller™ and DustBag™.

These Electrostatic Filters use about 40% less Electrical Power, are many times washable and re-usable, can capture fine pollutants such as mist, fumes and smoke, work at about 3 mm WG pressure drop, are modular and are stackable upto 1,00,000 CMH.

Typical applications in industry are:

Engineering	:	Removal of oil mist or coolant mist for CNC grinders, lathes and machining centres. Capture of fine powders from graphite, cast iron, bakelite grinding operations. Elimination of smoke and fumes from welding, annealing, forging etc.
Electronics	:	Capture of fumes from soldering, cleaning and for clean rooms.
Pharmaceuticals	:	Capture of fumes from tableting, capsuling, filling and for clean rooms.
Textiles	:	Capture of particulates in ventilation and humidification systems.
Hospitals	:	Capture of dust, bacteria in operation theatres and for clean rooms.
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Email: sales@malkargears.com, malkar.samir@gmail.com

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Website : www.malkargears.com, www.malkarindustries.com, www.knurlingwheels.com

VERTICAL LAMINAR AIR FLOW

Bio Technics India offers vertical laminar air flow, which has vertical direction flow and particle retention above 0.5 micron.

Features:

- These are appreciated for their low noise and versatile usage; the vertical laminar air flow cabinets are designed to provide a high degree of protection for process products in laboratories and production facilities.
- Many critical applications in the medical, pharmaceutical, nuclear power, and micro-electronic fields demand an ultra-clean work environment which is free from biological and particulate contamination.
- Ambient air is drawn in through pre-filter and is introduced in the work zone through the HEPA filter.
- The average velocity in the work zone is maintained between 0.4 and 0.5 m/s; air cleanliness in the work zone is better than class 3.5 (100) in accordance with US FED STD 209 E.
- The cabinets are fabricated out of thick board duly Sunmica clad or mild steel cabinet duly epoxy coated; the work table is made of thick board which is Sunmica clad at top or SS table top will be provided as optional accessories.
- All joints are sealed with Silastic sealant; side panels are provided of thick transparent acrylic sheets.
- The unit is fitted with pre-filter and is made to pass through highly effective HEPA (high efficiency particular air) filter having efficiency rating as high as 99.997 per cent with hot, DOP, thus retaining all air-borne particles of size - 0.3 micron and larger.
- Using a dynamic machine, the blower and motor assembly is statically and dynamically balanced; blowers are mounted on vibration isolation mounts to minimise vibration; the working is illuminated by fluorescent lightings fitted to the unit.
- Height of the working table provides comfortable 'sit down' working position for the operation to work on 220/230 volts AC supply.

About the company: Commencing operations in the year 2005, Bio Technics India is a manufacturer and supplier of a wide range of laboratory and scientific instruments like laboratory incubators, vertical autoclave, lab BOD incubator, rectangular water bath, vacuum oven, serological water bath, vertical laminar air flow, horizontal laminar air flow, constant temperature water bath, high temperature oven, humidity chamber heating mantle and laboratory hot plate that are used in diverse industrial applications.

Contact:

Bio Technics India, Mumbai
Tel: 022-65948121, 64515653
Mobile: 09821214014, 09699870543
Email: biotechnic_parekh@yahoo.co.in

ROTARY KILN INCINERATOR

B L Engineering offers a wide range of rotary kiln incinerators.

Features:

- A rotary dryer (or drier), often called calciner, is a machine or apparatus used to remove moisture; it may be a small laboratory oven taking a few grams of moist material or a large industrial unit handling tonnes of wet feed per hour.
- An industrial dryer is never a stand-alone unit; it is part of a drying system which includes the feeder, the heaters and product collectors besides the actual drying section itself.
- The method of material conveyance through the drying section; the method of heating the material; the pressure and temperature of operation.
- More than any other factor, the method of conveying the feed through the dryer governs the outward appearance of a dryer and limits its operating parameters.

About the company: B L Engineering designs and manufactures all types of incinerator systems and pollution equipment, etc since 1985.

Contact:

B L Engineering, Ahmedabad
Tel: 079-25833713, Mobile: 09974137636
Email: info@blengineering.com

ROTARY SCREW COMPRESSORS

Core Energy offers rotary screw compressor, which is a type of gas compressor that uses rotary type positive displacement mechanism.

Features:

- It is mainly used for large industrial applications and to operate high power air tools.
- It's also used to replace piston compressors for large industrial applications, because the gas compression of a rotary screw is continuous sweeping motion so there is little pulsation or surge of flow unlike piston compressors.
- Sizes range from 10 cubic feet/min to several thousand CFM.
- They are used in applications where airflow requirement is more than produced by reciprocating compressors but less than produced by centrifugal compressors.
- To supply compressed air for general industrial application.

About the company: Core Energy Pvt Ltd provides a range of high technology products, value added services as well as turnkey engineering solutions for niche sectors.

Contact:

Core Energy Pvt Ltd, Mumbai
Tel: 0251-2444801
Email: sales@core.co.in, info@core.co.in

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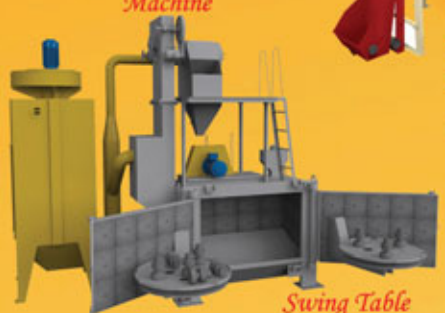
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E-mail- sfecjodhpur@gmail.com, surfacefinishing@yahoo.com, Website - www.sfecindia.net

FOOD GRADE HOSES

Shore Auto Rubber Exports offers a wide range of food grade hoses.

Features:

- Food grade silicone is made with platinum cured silicone and has very low glass transition temperatures.
- The hoses are transparent, and hence one can see through to the fabric reinforcement.
- Food grade silicones show excellent heat resistance, cold flexibility, dielectric properties and especially good resistance to weather, ozone and UV rays; food grade silicone formulations are designed for use with food products. FDA approved silicone has reduced food taint and results in low bacteria build-up.
- The temperature range is between -50°C to +180°C; food grade silicone is reinforced with multiple plies of knit polyester, and wire too if needed, to withstand different pressure levels.

About the company: Shore Auto Rubber Exports Pvt Ltd has been working under Keswani Group, which is in the rubber products manufacturing business since 1966.

Contact:

Shore Auto Rubber Exports Pvt Ltd, Pune
Tel: 02135-612570, 612572
Email: kishore@shorerubber.com

TUBE HEAT EXCHANGER

Soil & Enviro Industries offers shell tube heat exchanger.

Features:

- It is available in carbon steel stainless or high alloy construction; refractory and/ or ceramic lined units are also available for abrasive/high temperature applications.
- The engineers at SEIPL offer the most suitable configuration depending on the efficiency requirements and space limitations.
- It is designed to achieve high dust collection efficiency at low pressure drop.
- The cyclones incorporate a volute with tangential inlet.; collection efficiency depends on many factors such as operating pressure drop, cyclone gas density, gas viscosity, gas loadings, and dust cyclone dimensions, particle size distribution, etc.

About the company: Soil & Enviro Industries Pvt Ltd manufactures industrial fans, Venturi scrubbers, industrial heat exchangers, industrial filters, electrostatic precipitators, dust collectors, bypass dampers, industrial blowers, ESP and bag filter spare parts, etc.

Contact:

Soil & Enviro Industries Pvt Ltd, Kolkata
Tel: 033-24990405, 24990406, 24298208
Email: sales@soilenviro.com

RUBBER LININGS

Technospark Industries offers rubber lining, which is used for primary corrosion protection in aggressive chemical environments.

Features:

- They can be used as membranes behind granite blocks, granite tiles and brick lining, when the thermal and abrasion process limit is in use on the primary protection layer.
- Technospark offers a range of pre-vulcanised and post-vulcanised rubber linings depending on the duty conditions and area of application.
- Rubber lining is used for many applications including resistance to acid, chemicals and alkalis, abrasion resistance, infect protection, etc.
- Types of rubbers used in various industries: soft natural rubber: used in pickling tank, storage tanks resistance to hydrochloric acid and sulphuric solution for use as an acid pickling solution.
- Ebonite rubber: used in a higher degree of chemical resistance.

About the company: Technospark Industries India (P) Ltd, an ISO 9001:2008 company, is the largest manufacturer of industrial granite systems.

Contact:

Technospark Industries India (P) Ltd, Bangalore
Tel: 080-23336833
Email: info@technosparkindustries.com

PAVER CANAL MACHINES

Unisteel Engineering Works precision engineered paver canal machines.

Features:

- These are mainly used for lightweight construction, which can be easily erected and transported from site to site.
- This machine also has a special undercarriage that consists of a spreader auger that evenly spreads the concrete to an optimum level.
- The frames are available in the lengths of 4 feet, 8 feet and 12 feet; they are pin bolted together according to the size of the slab width; it can be incorporated in use for a working width between 3m to 20m.
- The paving is carried out with a vibrating-finishing drum of 4 feet in length and 10.7 inches (272mm) in diameter; 4 nos of mechanically adjustable jacks are provided for maintaining the machine level.

About the company: Unisteel Engineering Works has gained credentials in manufacturing and exporting of civil construction machineries.

Contact:

Unisteel Engineering Works, Ahmedabad
Tel: 079-25895546, 25895111
Mobile: 09825023673, 08347999330
Email: unisteel@unisteel.net

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AUTOMATIC CARTON PASTING MACHINE

Boxtech Bangalore offers automatic carton pasting machine.

Features:

- All these box pasting machine are custom built as per given requirements of various sizes; highly versatile, and capable of making large quantity of straight line and crash lock bottom boxes.
- High efficiency, accuracy, and productivity is maintained; carton gluing, side flap pasting, crash lock bottom can be done on a single machine.
- Used for pharma cartons, food packaging, incense stick, ice cream cartons, garment boxes moreover everything in cartons
- High speed machines with high efficiency and consistency, less space utilisation, less power consumption, less maintenance, high production, etc.

About the company: Boxtech Bangalore manufactures carton folders, carton box making machines, cover folder gluer and gluer machines (which are meant for gluing small, high value cartons), etc.

Contact:
Boxtech Bangalore, Bengaluru
Tel: 080-28364387
Mobile: 09845520543, 09880384480
Email: info@boxtech.in, sales@boxtech.in

METAL SOLDER WIRES

B S Solders offers a wide range of solder cored wires, lead-free solder wires and metal solder wires.

Features:

- These are manufactured using high grade virgin metals to meet the desired specification; processed for high density and fine grain structure.
- Made from 100 per cent imported metals alloy, conforms to federal spec-QQ-S-571E; the metal solder wires are available with flux cored with various percentage, they are Non-activated, mildly activated (RMA), fully activated (RA) and UREA water soluble flux cored wire, PB free and also can be supplied with any other type of flux according to given requirements.
- Suitable for hand soldering of electronic and electrical assemblies.
- Resin cored flux provides excellent wetting capillary, high reliability clean solder joint, non-corrosive, fungus and moisture resistant; etc.

About the company: Established in 1995, B S Solders manufactures a wide range of soldering alloys, soldering equipment and chemical products.

Contact:
B S Solders, Bengaluru
Tel: 080-23488002
Mobile: 09449008361, 09844258361
Email: bs.solder@yahoo.co.in, sanjana_frp@yahoo.co.in

CHARGE AIR COOLER

Brazewell Engineers offers a wide range of charge air cooler.

Features:

- High technology and anti-corrosive factors used in manufacture; has perfection in design, circuit construction and internal structure; this cooler is used for many engineering and electrical purposes
- It is available in various dimensions and range, ensuring the quality, reliability and performance.
- The product is tested according to the set industrial norms with the help of an R&D department.
- Durability; high performance; cost effective price; reliable working; optimum quality raw materials; safeguard against short circuit; protect power overloads; used for heavy duty operation

About the company: Established in 1990, Brazewell Engineers is involved in fabrication, supply and export of industrial products.

Contact:
Brazewell Engineers, Pune
Tel: 020-27122258
Mobile: 08308869305, 09422328330
Email: brazewell@dataone.in

PAINT RE-CIRCULATION SYSTEM

Bullows Paint Equipment offers a wide range of paint re-circulation system.

Features:

- Provided with centralised/localised paint re-circulation system with paint kitchen for continuous paint feeding application to eliminate colour and viscosity variation, paint, manpower and time wastage
- Paint re-circulation can be achieved by using double diaphragm pump or piston pumps positioned on centralised paint storage container with pneumatically operated agitators.
- Level indicator, suitably connected using fixed/flexible piping with fluid regulators on forward and return line with necessary inline filter and pulsation removal chamber
- Multi-colour lines with flushing system; 2-K component mixers; paint heating system; quick colour change facility; tri-clover clamps fittings; quick connect connectors; piping with insulation; PLC control logic for system operation

About the company: Bullows Paint Equipment Pvt Ltd is engaged in manufacturing spray painting equipment and systems.

Contact:
Bullows Paint Equipment Pvt Ltd
Thane
Tel: 022-25824980, 25838047
Mobile: 09448087940
Email: sales@bullows.com

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III. Manual Shaking Type
IV. Cyclone Dust Collectors

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HUMIAIR, the HUBC series Centrifugal Blowers are of Double Inlet Double Width construction.
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E-mail: sales@humiair.com, humiair2018@gmail.com

PIPE BENDING MACHINE

Bunty Enterprises offers a wide range of pipe bending machines.

Features:

- The range finds application in industries that manufacture health care equipment, children's play equipment, automobile parts and many more.
- Capacity up to 38mm; machine operated with control panel; smooth wrinkle free bends; sharp bends up to 1.5D (in terms of OD); no filling of stand or spring
- The machines are useful for office and house furniture industry for chairs, tables, trolleys, center tables, dining, designer beds, etc.
- In automobiles industry these are used for handle bars, chassis, bumpers, exhaust pipes, silencers, two wheeler accessories etc; heat exchanger tubes, etc.
- Front decorative bumper for cars, vans and other commercial vehicles; machines tool building for air, water and hydraulic pipe lines.

About the company: Bunty Enterprises manufactures and supplies jigs and fixtures, automotive parts, press parts, dyes and moulds, and other industrial components.

Contact:

Bunty Enterprises, Pune
Mobile: 09822504165, 09011096769
Email: bunty.ent.a39@gmail.com

IN-LINE RESISTANCE ANNEALING MACHINE

Cab Device Industries offers in-line resistance annealing machine.

Features:

- With the system allowing attachment with wire drawing machine and providing for uniform and synchronised wires, the end results are achieved with optimum finish without any tarnishing.
- The system also provides for cost effective and time saving operations involving wire drawing and annealing in a single process; the operating parameters of the system can also be custom tuned as per the specific process needs.
- High performance based inline annealer intermediate; equipped with advanced process system that offers desired wire elongation support; system allows attachment with wire drawing machine and provides for uniform and synchronised wires

About the company: Cab Device Industries manufactures and supplies continuous in line resistance annealing machine, off line resistance annealing machine, wire electro plating plant, induction preheater, etc.

Contact:

Cab Device Industries, Faridabad
Tel: 0129-4041641. Mobile: 08826059696.
Email: info@cabledevice.com

AUTOMOTIVE PARTS, FORGED

EMC offers a wide range of forged automotive parts.

Features:

- High quality raw material is used in fabrication of the components in order to ensure faultless service and longer life; moreover, these components are quality assured, following various quality parameters.
- The wide range of auto parts forged includes: spindles, automobile connecting rods, motor bike kicks and scooter kicks, shafts, plough hubs, coupling flanges, gear blanks, transmission hardware, forged ornaments, etc.

About the company: EMC Ltd, established in 1953, manufactures a wide collection of industrial aluminium alloys and forged products, defence components and con rods spares. These products are hard-wearing, robust and in conformity with the international quality standards while services are planned and executed within the stipulated time. The company can also customise this range according to specific requirements.

Contact:

EMC Ltd, Kolkata
Tel: 033-25231535, 25231536
Mobile: 099533-4697
Fax: 033-25231536
Email: agp@emcpower.com

MATERIAL LIFTS

Sumo Material Handling Systems offers a wide range of material lifts.

Features:

- These are used for transferring load from one level/floor to another in fabricated cages; the complete system includes a standard wire rope hoist mounted on a supported I-beam, used to adjust height of the cage.
- Design – Sumo gantry/goliath cranes with modular and compact design for low maintenance cost and easy operation; motors – special crane duty type suitable for frequent starting, reversing and braking in accordance with IS-325; motors are enclosed in dust proof construction foot/flange mounted TESC/TEFC, squirrel cage motors with integrated safety brakes.
- Brakes – single/dual-disc/shoe electromagnetic/EHT brakes with features like automatic braking on power failure (fail safe); gearbox – made of accurate hob cut helical/spur gears and pinions having hardness 250 to 350 BHN made from carbon alloy steel;

About the company: Sumo Material Handling Systems is engaged in manufacturing and supplying a broad chain of material handling equipment.

Contact:

Sumo Material Handling Systems, Ahmedabad
Tel: 079-27680531. Mobile: 09825022530, 09712542770
Email: kkothari28@hotmail.com

PULVERISER MACHINE

Jaya Engineering Co offers a wide range of pulveriser machines.

Features:

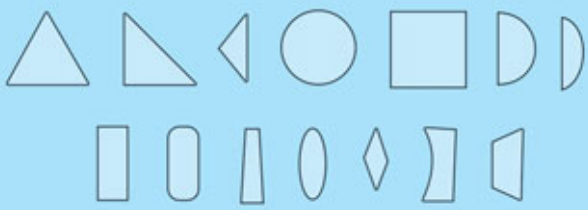
- Raw material to be pulverised enters the crushing chamber through the hopper or automatic rotary feeder.
- The impact of the hammer on the feed material against the liner plates reduces it to fine powder.
- The ground material is carried towards the classifier for classification and the oversized particles are rejected by the classifier and return to the crushing chamber for further grinding.
- The classified material is then conveyed into the cyclone for collection and bagging; a dust collector is provided in the system for ensuring dust free operation and no loss of ground powder.
- Pulveriser are used for a wide range of applications, e.g. agricultural chemicals, carbon and graphite, coal, coke, coconut shell and wood saw dust, clay, dye stuff and pigments, detergents, ferro alloys fertilizers, etc.

About the company: Jaya Engineering Co manufactures and supplies chemical and pharmaceutical equipment.

Contact:

Jaya Engineering Co, Hyderabad
Mobile: 09392493719, 09494498756
Email: info@jayaengineering.com, rameshsos@gmail.com

SPECIAL STEEL SECTIONS



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EMAIL: profiles88@hotmail.com

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- M: 93243 74860
- E: aditya_springs1@rediffmail.com
- W: www.adityasprings.in

BALL VALVE, MODEL VM-1

Valve-Tek Mfg Company offers a ball valve, model VM-1.

Features:

- This is a single piece valve with reduced port, screwed end and mounting pad, with 2000 PSI pressure rating, available in sizes ¼"-2".
- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN259/2999, ISO 228; blow-out proof stem/ reduced port; investment casting body and in-screwed; 2000 WOG (130 bar)/1500 WOG (100 bar); with mounting pad.
- Materials – ASTM-A351-CF8M, ASTM-A351-CF8; and options – locking device – drilled and tapped mounting pad.

About the company: Valve-Tek Mfg Company was founded in 1984 and is certified with ISO9002 by by SGS; ISO9001-2000, API607 Fire Safe Approved and PED by TUV. It is a manufacturer of ball valves with direct sales to a worldwide market.

Contact:
Valve-Tek Mfg Company, Taiwan, ROC
Tel: 886422312299
Fax: 886-4-2231 3399
Email: valvetek@tcts.seed.net.tw

MAGNETIC DISC BRAKES

Electro Power Engineering is offering magnetic disc brakes.

Features:

- In case of power failure or cut-off, the brake is instantaneously applied thus preventing accidents; the brake motor is a combination of three phase Squirrel Cage Induction Motor with Electro-Magnetic Disc Brake (AC).
- When power is switched off with ordinary motor, the rotating part will stop after some time but if brake motor is used rotating mass will stop instantaneously; all brakes are mounted at non-driving end of motor, braking disc is mounted directly on motor shaft.
- Brakes are directly acting, no lever or links are required; liner plate is the only wearing part and this is easily replaceable; less noise, easy maintenance, precision engineered, corrosion resistance and optimum performance.

About the company: Electro Power Engineering manufactures, supplies, trades and exports crane control systems. The product range comprises thruster brakes, AC solenoid brake, magnetic disc brake, rotary gear limit switch, weight operated limit switches and lever type limit switches.

Contact:
Electro Power Engineering, Rajkot
Mobile: 09904782878
Email: power.electro@yahoo.com

FUEL OIL PRE HEATERS

Shree-Laxmi Engineering offers fuel oil pre heaters.

Features:

- These are fabricated from superior quality raw materials and are used to heat fuel oil to a desired temperature before being combusted in a boiler; they can be provided in a flange or screw plug design.
- These heaters maintain oil temperature so that complete combustion occurs under optimal conditions, thereby reducing pollutants and increasing efficiency.
- It offers heaters up to normal 345°C at near-atmospheric pressure with efficiency as high as 90 per cent on GCV of oil or gas fuel these thermal oil heaters or process heaters find applications in various industries like chemical, textile, technical textile, plywood and laminates, oil and gas, packaging, rubber, pharmaceuticals and food processing.

About the company: Shree-Laxmi Engineering Pvt Ltd manufactures steam boilers, thermic fluid heaters, vessels, chimneys and jaggery process plants.

Contact:
Shree-Laxmi Engineering Pvt Ltd, Mumbai
Tel: 022-21663324
Mobile: 09833006615, 09766925392
Email: mahesh@shreelaxmiepl.com, info@shreelaxmiepl.com

DUPLEX STRAINERS

Nova-Tech Filter offers a wide range of duplex strainers.

Features:

- These can be operated at 100 per cent capacity connected in parallel by means of three-way ball valves or butterfly valves.
- These valves are operated manually as well as automatically, the same as bucket type strainers; brief description: materials of construction – CS, CI, MS, SS304, SS316 with other alloys on request; mesh size – 2 microns to 500 microns; and sizes – ½" to 26".

About the company: Nova-Tech Filter Pvt Ltd is a manufacturer and supplier of industrial filtration systems. It is an ISO 9001-2008 certified company. Whenever continuous operation is required and flow is not intended, duplex strainers are recommended. The product range on offer includes candle filters, pleated filters, magnetic simplex strainers, industrial simplex strainers, T type strainers, duplex strainers, Y type strainers, bucket type strainers and conical strainers. Apart from this, the other products manufactured includes simplex basket filters, duplex basket filters, magnetic filters, conical filters, T-type filters along with cartridge filters that are available in 316, 304, ANSI fabricated metal finish.

Contact:
Nova-Tech Filter Pvt Ltd, Thane
Tel: 022-21736412
Email: info@novatechfilter.com, novatech11@yahoo.com

AGROCHEMICAL SOLID AND LIQUID WASTE INCINERATOR

Vikas Engineering offers a wide range of liquid and solid waste combined incinerator systems.

Features:

- The systems are provided with 2-stage combustion chamber; in liquid waste the liquid is sprayed by spray nozzle and solid is automatic feeding in the solid combustion chamber.
- The primary chamber can maintain temperature above 800°C and the secondary chamber can maintain the temperature above 1,200°C.
- Compact design, occupying least space; hassle-free operation with low maintenance; scientifically designed by experts by using advanced techniques and high quality basic materials.
- The system is also enlisted with pollution control board; auto burners to give cyclonic flame which turns in optimum fuel efficiency.

About the company: Vikas Engineering manufactures, exports and supplies incineration systems like waste incinerator system, advance sludge treatment technology, incinerator for industrial waste etc.

Contact:

Vikas Engineering, Ahmedabad
Mobile: 09033896841. Email: info@vikasengineering.co.in

CYLINDRICAL TAPER & GROOVED PINS

R K Engineering Company offers cylindrical, taper and grooved pins.

Features:

- Cylindrical (dowel) pins are used for retaining parts in a fixed position or for preserving their alignment.
- Cylindrical hardened pins are manufactured as per IS: 6689, unhardened pins as per IS: 2393 and taper, pins as per IS: 6698 standards.
- These are suitable for parts that have to be taken apart frequently, in which case cylindrical pins would tend to wear the holes.
- Grooved pins have parallel equidistant longitudinal grooves impressed on their exterior surface and are manufactured to IS: 7368 standards; also manufactured are non-standard pins.

About the company: R K Engineering Co commenced its business operation in the year 1976. It is engaged as a manufacturer, exporter, supplier for grooved pin, dowel pin, taper pin, spring dowel pin, circlip, parallel keys.

Contact:

R K Engineering Company, Mumbai
Tel: 022-22671141 Fax: 022-22655255
Email: rkeng@vsnl.net

ARBORS & ADAPTORS

Kusari Enterprise offers a range of arbors and adaptors for CNC operated machines.

Features:

- The performance and life of the tool depends a lot on the quality of the arbor or adaptor; the accuracy and life of the arbor in turn depend on selection of proper material, hardness and geometry.
- Sturdy construction, optimum performance, and uniform functionality; types: hobbing arbor; end mill side lock holder; shell end mill arbor; stub arbor; adaptor for drill chuck (as per DIN/Jacobs); shoulder face milling cutter arbor; and ISO/BT/metric/morse taper/special arbor and adaptor for CNC machines.
- The company follows proper material selection and strict supervision of heat treatment process to ensure the basic strength of arbor and adaptor; in the grinding stage, accuracy of angle in taper shank portion is strictly maintained so that maximum possible contact spindle taper is ensured, which produces rigidity of holding.
- This allows strength for heavy machining and prevents damage of spindle housing or tool while heavy machining is done.

About the company: Kusari Enterprise manufactures of precision tools and precision cutting tools like milling cutters, core drills, end milling cutters, etc.

Contact:
Kusari Enterprise, Kolkata
Tel: 033-23234650, 32574701
Mobile: 09830338640, 09674745725
Email: kusari@kusaritools.com

CASTINGS

Smiths & Founders (India) offers a wide range of castings.

Features:

- The product range is cylinder liners – suitable for various automotive vehicles and compressors.
- Brake discs and brake drums – for a wide range of automotive vehicles.
- Valve guides – for a wide range of automotive vehicles

About the company: Smiths & Founders (India) Ltd is engaged in manufacturing a wide range of castings and forgings required in various industries like automobile, general engineering, mining, agriculture and the like. The manufacturing units have experience in engineering small, precision and intricate steel forgings, and centrifugally cast cylinder liners.

Contact:
Smiths & Founders (India) Ltd, Bangalore
Tel: 080-64503851
Fax: 080-23340863
Email: director@smithsandfoundersindia.com

BIODIESEL PLANT

Azad Engineering Company offers a range of biodiesel plants.

Features:

- Manufactured with sophisticated technology, the technologically advanced bio-diesel plants are very effective in generation of biodiesel.
- Cost effective and non-toxic biodiesels can be produced with these biodiesel plants; with sophisticated technology, these plants are efficient in generation of biodiesel.
- Capacity – 25 litre/batch; time for one batch – 1 hr for reaction, 4 hrs for separation; type of plant – batch type.

About the company: Azad Engineering Company, established in 1951, works in the field of oil mill machinery. The company now has a product mix that includes oil mill machinery, food processing machinery, and renewable energy equipment like mini hydro turbines, solar power equipment, hand pumps, etc.

Contact:
Azad Engineering Company, Ghaziabad
Tel: 0120-2866372, 2866375
Mobile: 09811112003
Fax: 0120-2866373
Email: mdazad@gmail.com

TROLLEYS FOR AUTO GARAGES

Con Air Equipments offers a range of trolleys for auto garages.

Features:

- These trolleys are known for their sturdy construction and durable nature; excellently developed, spacious and equipped with advanced tools.
- Products are precisely manufactured using quality-tested raw materials, in adherence with the international quality standards.
- This range of the products caters to varied requirements of sectors like automobiles, defence, transport, mining, food and beverages, chemicals, textiles, electronics, telecommunications and in many others.

About the company: Con Air Equipments Pvt Ltd is engaged in supplying, manufacturing, trading and exporting tools and garage equipment. The range includes multi roller test benches, steering oil exchangers, vacuum cleaners, garage tools, air grinders, air sanders, high speed sanders, air staplers, pneumatic staplers, air polishers, Teflon polishers, air compressors, air impact wrenches, front fascia and pylons, automobile furniture, showroom furniture, pneumatic ramps, etc.

Contact:
Con Air Equipments Pvt Ltd, Pune
Mobile: 08308821635
Email: sales2@conair.co.in

PRE-TREATMENT PLANT

Monark Engineering Industries offers a dip/spray pre-treatment plant.

Features:

- The chemicals are stored in the MS/SS fabricated tanks of the system; further, the components are placed in the baskets or cages of the range and are dipped in each process tank for a pre-fixed period of time.
- The movement of the basket or cage is manual with a monorail and hoist as well as automatic with a transporter system; effective drain length; vestibules for over spray and vapour; tank designed to provide durable performance; easy to maintain; nozzle and riser configuration and placement to ensure correct overall treatment; equipped with immersion coils from materials to suit chemical; and sludge removal hatches on stage tanks.
- Focus on critical production problems related to coating and surface treatment on a continuous and consistent basis.

About the company: Monark Engineering Industries, offers modern surface treatment plants and surface coating plants. Apart from plant fabrication and installation, the company also provides surface treatment plants, plant up-gradation service, lab for testing of paints and chemicals.

Contact:

Monark Engineering Industries, Old Faridabad
Tel: 0129-2229731, 2229935
Mobile: 09810615466
Email: monark.fbd@gmail.com

SOLVENT RECOVERY HEAT EXCHANGER

Airec Energy India offers solvent recovery heat exchangers.

Features:

- The product is manufactured from optimum quality raw material and with the use of latest technology; it is used to remove latent heat from boilers by solvent recovery method.
- Rigid construction; long operational life cycle; precise formulation.
- Structure – plate heat exchanger; voltage – 220V, 380V; type – ventilation; power saving type – sensible heat; heat recovery type – crossflow; heat exchanger type – aluminium.

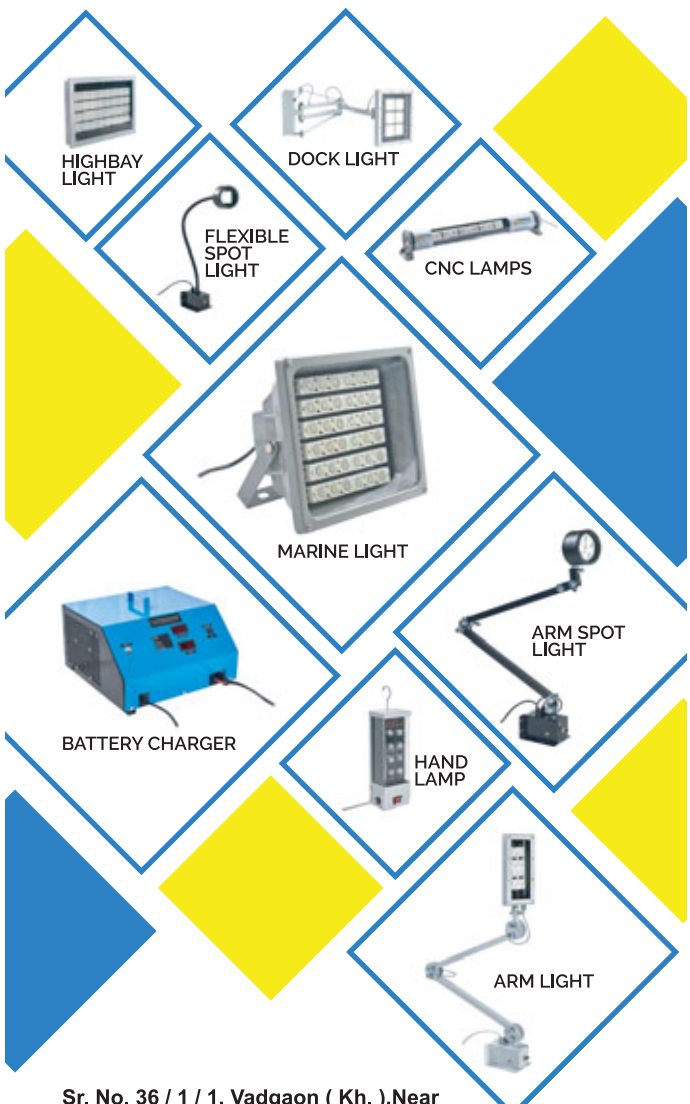
About the company: Established in 2010, Airec Energy India, a sole proprietorship firm, is engaged in manufacturing, exporting, importing, distributing, trading and supplying heat exchangers.

Contact:

Airec Energy India, Vadodara
Tel: 0265-2363921, 2226270
Mobile: 09824057498, 09879120007
Email: info@airec.co.in

Patankar Industries

LED LIGHTING SOLUTIONS



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response@patankarindustries.com
www.ledindustriallightings.com
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www.patankarindustries.com

SCISSOR LIFT

Power Hydraulics offers a range of scissors lifts.

Features:

- Ideal for building maintenance, indoor painting and decorating, cleaning, suspended ceiling installation, and more applications.
- Long lasting finish and enhanced functional life; excellent balance performance; used for vertical lifting.
- High-strength materials and nice mechanical properties; applications are airports, stadiums, manufacturing sites and factories, hotels, etc.

About the company: Power Hydraulics is a manufacturer, supplier and exporter of industrial hydraulic equipment and machines for various industries across Asia. The range includes semi and fully automatic forming hydraulic presses, fully automatic PLC controlled/semi-automatic deep draw hydraulic press, dishing press, H-frame hydraulic press, four column hydraulic press, single daylight rubber moulding hydraulic press, multi daylight rubber moulding hydraulic press, C frame workshop hydraulic press, scissor lifting platforms, hydraulic cylinders and power packs.

Contact:

Power Hydraulics, Chennai
Tel: 044-26233459. Mobile: 09444914349
Email: manandan.power@gmail.com

CYCLONE SEPARATORS

Samarth Engineers offers a wide range of cyclone separators.

Features:

- Cyclone separators are used for collection of coarse dust particles; these are efficient and durable cyclones.
- Product ranges from adequate to coarse dust content gas (100 to 100,000 fts/min); due to whirling motion gases and dust particles are separated.
- Cyclone separator used for control of coarse dust of high concentration; multi cyclones are also provided; these cyclones have high collecting efficiency

About the company: Catering to the requirements of the precision engineered process equipment industry, allied products and fabrication services, Samarth Engineers offer a wide range of industrial manhole, industrial chimney, venturi tubes, heat exchanger, decanter and chiller for ethanol plants, cyclone, frame hood for milk separator, agitator tanks, mobile racks, etc. The company caters to the processing and other requirements of refineries, oil process plants, petrochemical plants, chemical plants, distilleries including repairing and other allied activities.

Contact:

Samarth Engineers, Pune
Tel: 020-66300305
Mobile: 09860098706
Email: response@samarthengineers.com

ORIFICE RING HOLDERS

Solar Enterprise provides a superior grade of orifice ring holders.

Features:

- These holders are made using optimum quality material and by following all prevailing quality guidelines; professionals working at the company make sure that these ring holders are in keeping with international quality standards.
- These orifice ring holders are known for qualities like durability; high wear and tear resistance; good performance and easy fitting.
- Made from high grade ferrous and non-ferrous materials, these products are in complete adherence to industry quality norms.

About the company: Solar Enterprises is a manufacturer, supplier and exporter of spares for glass container industries and gauges that are used in checking the dimension accuracy of glass bottles. The range offered includes furnace burners, gas furnace burners, bottle checking gauges, D.G. plunger assembly, etc.

Contact:

Solar Enterprise, Vadodara
Tel: 0265-2773040. Mobile: 09824019206, 09824079206
Email: hsolarent@hotmail.com

FIRE ALARM, INTRUSION ALARM & GAS ALARM SYSTEMS

Nayakson Security Systems offers a range of fire alarm, intrusion alarm and gas alarm systems.

Features:

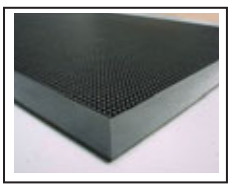
- These alarm systems enable people to be cautious so that they can avoid unexpected dangers in the workplace, home, etc.
- The firm provides a range of alarm systems like fire alarms, intrusion alarms and gas alarms for residential purpose, commercial complexes, organisations, hospitals, malls, industries and companies.
- Multiple solutions are available to address the safety measures under various situations; supplied with a wide variety of alarm systems as per the given requirements that support the best functionality to avoid dangers.

About the company: Nayakson Security Systems is a distributor for touch remote switches and power saving sensors; consultant for CCTV, fire alarm systems, intrusion alarm systems, and access control and solar systems.

Contact:

Nayakson Security Systems, Thane
Tel: 0251-3200596
Mobile: 08976720677, 09869632501
Email: nayakson@yahoo.com

SAFETY RUBBER MAT



Namokar Enterprises offers a wide range of safety rubber mats.

Features:

- These quality finished insulating mats are suitable to meet application needs in critical areas like substations and power plants.
- Some of its features include providing for optimum floor covering support below control panels, superior workmen safety from possible leakage of current, developed from blend of synthetic polymers, suitability for areas like transformer rooms, electrical switch gears, AC plant rooms and others.
- These insulating mats offer excellent floor covering below control panels for safety of workmen from possible leakage of current.
- Size – 300mmx900mmx12mm; colours – black, red, green, brown and so on; weight – 1.8kg; materials – nitrile rubber and reclaimed rubber; style – with bevelled edge and drainage holes; anti fatigue, durable, oil proof, anti-slip.

About the company: Namokar Enterprises manufactures, supplies & exports industrial pipes & hoses such as HDPE pipe, canvas pipe, DWC HDPE pipes, etc.

Contact:

Namokar Enterprises, Delhi
Tel: 011-30114144. Mobile: 09999683666
Email: sales@namokarenterprises.com

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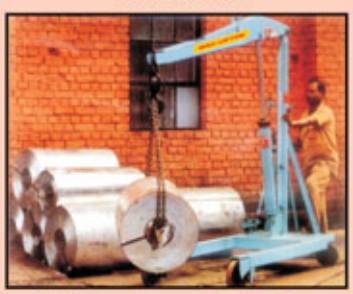

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E-mail: ashwin@maclifton.com, shalimarenggco@gmail.com

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E-mail: sales@sfsequipments.com / parts@sfsequipments.com | Web: www.sfsequipments.com

PLASMA COATING PLANT

Raghbeer Machinery offers PTG, a German make plasma coating plant.

Features:

- Plasma coating on various critical parts of printing machines provides longer life and uninterrupted working of the machine.
- This is a method of applying materials on to a prepared base material by heating particles in the stream of a heat source, creating a semi-molten state; particles are then propelled by high velocity onto a prepared substance where they adhere to the base surface via a mechanical bond; various gases are used in this process that are ignited by an electric arc.
- Temperature can rise more than 25,000°F while the part's temperature remains at low value; spray material may be stainless steel or tungsten carbide depending upon the requirement; thickness can be built up to 0.5 mm; no degrading of part metallurgy; no degrading of part due to heat warping; & surfaces are enhanced to provide improved performance.

About the company: Raghbeer Machinery Pvt Ltd manufactures and exports single width, single circumference web offset printing presses.

Contact:

Raghbeer Machinery Pvt Ltd, New Delhi
Tel: 011-43777000. Email: mahabeer@vsnl.com

VOLUMETRIC LIQUID FILLING MACHINES

Global Engineering Technologies Packaging offers volumetric liquid filling machines.

Features:

- Mounted on a sturdy base cabinet, these volumetric filling machines offer easy control on the cylinder for fast and accurate volume adjustment.
- The machine offers a filling accuracy of ±1-2% provided with diving nozzles, the machine has specially designed syringes and nozzles to avoid foaming while filling; air controlled bottle feeding and positioning.
- Precision designed, these carry accurate heavy-walled metering cylinders; parts made of food grade plastic; and option for variable speed control.

About the company: Global Engineering Technologies Packaging manufactures and exports packaging machines like shrink wrapping machines, continuous band sealers, form fill seal machines, volumetric liquid filling machines, recirculating furnaces, air recirculating furnaces and packaging heaters.

Contact:

Global Engineering Technologies Packaging, Mumbai
Tel: 022-28152128
Mobile: 09819838604
Email: agnellodmello@yahoo.co.in

ELECTRONIC TRANSMITTERS

Lakshmi Instruments & Automation offers an exceptional array of electronic transmitters.

Features:

- These are attached with modern facilities and are quality tested; it is a microcontroller based technology having 6-digit, 7-segment display or LCD display on request for output; the front panel has programmable 4-key pad arrangement for data entry, i.e., set values.
- Facility to set field programmable inputs 4 mA to 20 mA, 0 mA to 20 mA, 0 to 2 V and 0 to 4.99. V; tolerance selection possible in the order 0.1% to 50% of the set values and process value accuracy in the range of 0.01 of the full scale value.
- Two set points for low set and high set (if required) and the output low and high indication through front panel LEDs; the output relay contact rated for 230 V/3 A and the optional RS232/RS485 Modbus communication protocol output provided on request

About the company: Lakshmi Instruments & Automation manufactures, supplies and exports a comprehensive range of process instruments, such as digital timer, sequential timer, digital indicator, bag filter controller, conveyor belt controller, stepper motor controller, electronic digital counter, etc.

Contact:

Lakshmi Instruments & Automation, Chennai
Tel: 044-26440237. Mobile: 09380219820
Email: sales@lakshmiinstruments.com

DIFFERENTIAL PRESSURE SENSORS

Best Systems & Services offer a wide range of differential pressure sensors.

Features:

- These are made from top quality components and by implementing best available technologies.
- The sensors are checked for quality and reliability by experienced quality controllers on predetermined parameters to offer flawless service.
- These sensors provide consistent performance; high efficiency; reliability; robustness.

About the company: Best Systems & Services is a quality-conscious and technologically driven concern that provides total solutions for the automation industry. The company undertakes precision-engineered activities like weighing and batching, process monitoring and control systems and automation of material handling equipment.

Contact:

Best Systems & Services, Chennai
Tel: 044-23726154, 42046371
Mobile: 09500036154
Fax: 044-42046371
Email: bestgroup.in@gmail.com

CONDUIT GATE VALVES

Y K Enterprises offers a wide range of conduit gate valves.

Features:

- These are engineered using latest techniques and following international standards.
- These products are acknowledged for finest quality, robust design and high functional efficiency.
- They are known for corrosion resistance and smooth surface finish; can be availed in various standard sizes including 15mm to 600mm; these products are widely recommended for various industrial applications.
- They have features like with full port design, renewable seat rings and seal welded, burnish finish stem for low operating torque and many others to ensure consistency and effective performance.
- These products are ideal for different manual, pneumatic and electric applications; they are quality checked by experienced quality controllers to ensure flawlessness and effective usage.

About the company: Y K Enterprises manufactures, exports, imports, distributes, trades and supplies valves and traps. Product range offered includes cast steel valves, forged steel valves and ball valves.

Contact:

Y K Enterprises, Mumbai
Mobile: 09820991301. Email: ykenter@ymail.com

STEEL HOSE CLIP

Bharat Industrial Supplier offers a wide range of steel hose clips.

Features:

- The offered range of products is corrosion resistant and long lasting, and available in different specifications.
- Clips are supplied in the sketches; simple and quick to assemble; vibration damping property due to eccentric clamping
- Special reinforcement possible by providing extra washer spot welded at the screw fixing area; pipe clips with sleeve or coating at the pipe holding area offer flexible fastening at the same time preventing penetration of band edges in the pipe or the item it is holding and clamping; clips can be supplied with nut and bolts fitted

About the company: Established in 1976, Bharat Industrial Supplier is a manufacturer, supplier, distributor, exporter, trader, wholesaler and retailer of fasteners. An ISO 9001:2008 firm, it offers quality steel fasteners, metal fasteners and industrial fasteners.

Contact:

Bharat Industrial Supplier, Chennai
Tel: 044-42157776
Mobile: 07200058312, 08148058312
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GREASE SUPPLY SYSTEM

NEW

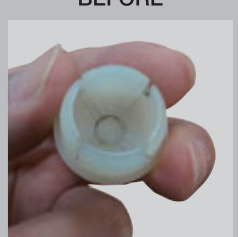
PRECISE DISPENSER

FLUID REGULATOR

FLUID FILTER

BEFORE

BEFORE



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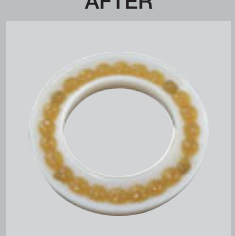

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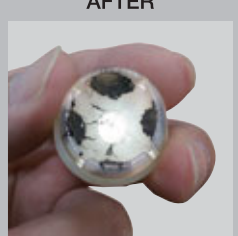


JOLONG MACHINE INDUSTRIAL CO., LTD
No. 88, Lane 6, Jianxing Rd., Dali Dist., Taichung City 41277, Taiwan
TEL :+886-4-24927009 WEB :www.jolong.com.tw
FAX :+886-4-24927007 MAIL :info@jolong.com.tw

WALK-N CHAMBER

Claasic Scientific offers a wide range of walk in chamber.

Features:

- These are designed to suit standards for stability in temperature and humidity as per cGMP guidelines and 21 CFR Part 11 compliance; walk-in chambers are in use for stability purpose such as temperature and relative humidity.
- They are also designed to create natural climatic conditions with the help of dry air, refrigeration and humidity system built-in; these chambers are basically used by pharmaceuticals, electronic, electrical, chemical, printing, packaging, telecommunication, aerospace industries and also for electro-mechanical R&D tests to confirm the successful result of the product under test.
- Range: temperature range – 20°C to 60°C; temperature accuracy – ±0.5°C; temperature uniformity – ±1°C; humidity range – 40 % rh to 95% rh; humidity accuracy – ±2% rh.

About the company: Classic Scientific is a manufacturer of laboratory and scientific equipment.

Contact:
Classic Scientific, Dist Thane
Mobile: 09322259029. Email: classicscientific@yahoo.com

CUBE MOULDS

Industrial & Scientific Spares offers a wide range of cube moulds.

Features:

- These products are widely used for casting cement concrete test specimens; manufactured as per international quality standards.
- Use of high-grade raw materials in manufacturing assures the maintenance of quality; ideal for carrying out compressive strength tests; rust free fine finishing; extremely reliable.
- Compression testing for Portland cement; compression testing for lime; compression testing for mortars; and compression testing for gypsum.

About the company: Industrial & Scientific Spares is engaged in the development of material testing and measuring equipment. The company manufactures products like concrete permeability apparatus, accelerated curing tank, hot air oven, humidity chamber, direct shear apparatus, automatic soil compactor, compression testing machine and other testing equipment.

Contact:
Industrial & Scientific Spares, New Delhi
Tel: 011-30264639
Mobile: 09910802723
Email: iss1975@gmail.com

SOLAR PHOTOVOLTAIC STREET LIGHTS

Debtronics offers solar photovoltaic street lights.

Features:

- These are fitted with compact fluorescent lamp of 11 W, which provides illumination equivalent to 75 W incandescent lamp.
- Low maintenance tubular stationary battery used for the system ensures autonomous and smooth operation during prolonged non-sunny days..
- Designed for operation in extreme climatic conditions and being energy independent, the system is best suited for both street and security lighting; uses 4-pin CFL tubes (1 unit of 11 W or 2 units of 9 W); high efficiency inverter circuit.
- Reverse polarity protected; operating temperature 0 to 50°C; and incorporated with charge controller unit – analog solid state Mosfet based – with dusk to dawn operation facility and all other features required for street light systems.

About the company: Debtronics is engaged in multifarious activities following the fields of energy saving LED lights, control panels, new and renewable energy, etc.

Contact:
Debtronics, Kolkata
Tel: 033-24290314. Mobile: 09674720655
Email: enquiry@debtronics.co.in

BALL BEARINGS, MV SERIES

Timken India offers a wide range of ball bearings for machine tools, MV series.

Features:

- These ball bearings are designed to operate with low vibration and heat generation, allowing for smooth operation and low noise.
- MV series bearing tolerances provide the dimensional and running accuracy required for effective control of machine tool spindles and other demanding applications; polymer cage: a ball-riding polymer cage was designed make the ball bearings smoother and operate at lower temperatures.
- The light-weight polymer cage reduces friction, and therefore runs cooler; in addition, the new polymer cage specifically supports applications up to one million dN; reduced run-in time: the polymer cage on the bearings reduces friction and temperature.
- As a result, the ball bearings can reach stabilised temperatures sooner, allowing for quicker run-in and set up times.

About the company: Timken India Ltd offers bearing repair and related mechanical power transmission services to support heavy industries.

Contact:
Timken India Ltd, Bangalore
Tel: 080-40053100, 41362000
Email: salesbangalore@timken.com

PRESSURE TRANSMITTERS

Instruments And Systems are providing pressure transmitters.

Features:

- For high and low pressure measurement (gauge and absolute), the ISP 200 series offers combined linearly repeatability and hysteresis errors that are typically below 0.2 to 1.5% FS of full scale.
- This circuit provides temperature compensation for a stable output through use of computer-controlled laser trimming of hybrid circuit component.
- Unit-to-unit uniformity is assured with no calibration required by the user; pressure range – 0-1bar to 0-400bar (gauge and absolute); temperature coefficient [0.1% per 10 deg C] may be optimised for a specific operating temperature.
- Zero and span adjusted; long term stability; operating temperature range 40deg to 125 deg C /- 0.25%; electromagnetic interference [EMI] protection.

About the company: Instruments And Systems is a manufacturer and exporter of a range of measuring instruments and valves that are used in a number of industrial applications.

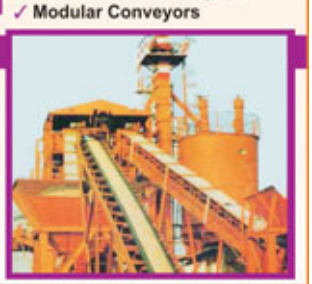
Contact:

Instruments And Systems, Dehradun
Mobile: 9412992347. Email: info@instruments-systems.com

MATERIAL HANDLING SYSTEMS MANUFACTURER

UNIT HANDLING CONVEYORS
- ✓ Belt Conveyors
- ✓ Slat Conveyors
- ✓ Roller Conveyors
- ✓ Chain Conveyors
- ✓ Overhead Conveyors
- ✓ Assembly Conveyors
- ✓ Bag Stackers
- ✓ Truck Loader Conveyors
- ✓ Modular Conveyors

BULK HANDLING CONVEYORS
- Trough Belt Conveyors ✓
- Drag Chain Conveyors ✓
- Screw Conveyors ✓
- Apron feeders ✓
- Bucket Elevators ✓
- Sidewall Conveyors ✓
- Belt Feeders ✓
- Feeding Hoppers ✓
- Grain Augers ✓



Some of our customers: | Grasim | Hero | Greaves Cotton | Reckitt Benckiser | Glaxo Smithkline | Voltas | Base Corp | ITC | Trident Paper | Orient Craft |

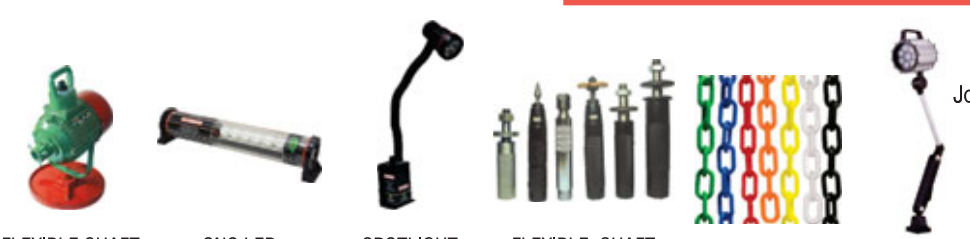
ARAVALI ENGINEERS
An ISO 9001:2008 certified
Manufacturer of Material Handling Systems Since:1987

Factory & Office: C–54, Sector–63, Noida – 201 307
Tel.: +91-120-4375306/08, 4331506 Mobile: +91-9910076877
Emails: sales@aravaliengineers.com; info@aravaliengineers.com
Website: www.aravaliengineers.com / www.conveyorsindia.com

MANUFACTURER OF FLEXIBLE SHAFT, SHAFT GRINDER & ACCESSORIES

SUITABLE FOR:

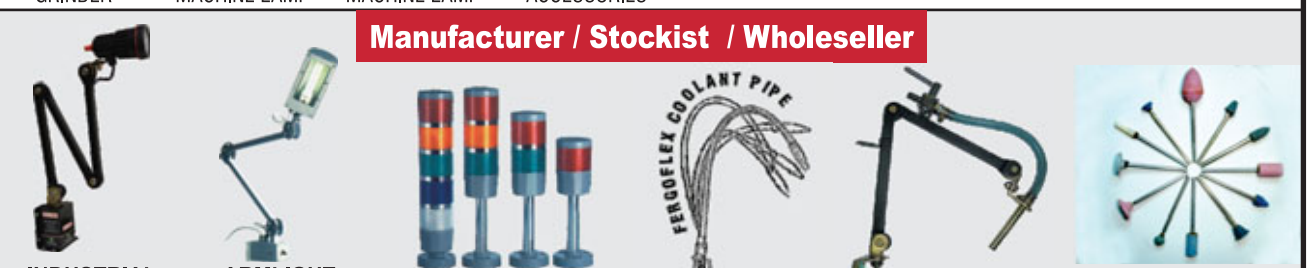
Wolf | SUHNER-INDIA | VIJAY | ZGE | CONTI-FLEX | VENUS | GOOD EARTH | FORBESFLEX



FLEXIBLE SHAFT GRINDER | CNC LED MACHINE LAMP | SPOTLIGHT MACHINE LAMP | FLEXIBLE SHAFT ACCESSORIES | PLASTIC CHAIN | ONN - M2

Fixed by base, easy and fast, Joints 270 adjustable, Joints provide accuracy and flexible positioning. IP65 waterproof rated, resistant to any water, coolants and lubricants.

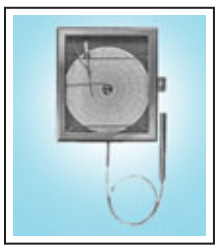
Manufacturer / Stockist / Wholeseller



INDUSTRIAL MACHINE LAMP | ARMLIGHT LAMP | TIER LAMP | COOLANT PIPE | SPOUT ASSEMBLY | MOUNTED POINT

CONTINENTAL COMMERCIAL CO
1/C, 59, Bibijan Street, (Nagdevi), Mumbai - 400 003. Tel.: +91-22-2343 3808, Telefax: +91-22-2340 0875
Mob.: 093231 33808, E-mail: sales@contiflex.in, Website: www.contiflex.in

TEMPERATURE & PRESSURE RECORDERS



Pressure & Temperature Control Instrument Co offers a range of temperature and pressure recorders.

Features:

- This is a high-accuracy temperature and pressure recorder with internal battery and non-volatile memory for deployment at high depths; this is intended for moorings or other long-term, fixed-site applications, as well as shorter-term deployments on nets, towed vehicles, or ROVs.
- Calibration coefficients are stored in EEPROM, and uploaded data is in ASCII engineering units.
- The thermistor has a long history of exceptional accuracy and stability; the pressure sensor has a superior new design that is entirely different from conventional 'silicon' types in which the deflection of a metallic diaphragm is detected by epoxy-bonded silicon strain gauges.

About the company: Pressure & Temperature Control Instrument Co was established to meet the demand of reliable process control instruments.

Contact:

Pressure & Temperature Control Instrument Co, Kolkata
Tel: 033-23432036, 23430539
Mobile: 09830035205. Email: ptci@rediffmail.com

OPEN WELL PUMPS

Tech-Mech Engineering Co offers a range of open well pumps.

Features:

- Ultra-modern and latest in design; all the units are thoroughly tested for field; superior design materials and manufacturing process assure a longer life.
- High efficiencies, better than international values, leading to energy savings; silent, vibration free running; components are made up of selective materials; effective after sales service.
- Rural and urban water drainage installations; water supplies for high rise buildings; water circulations systems for lawns and gardens; agricultural lift sprinkler and drip irrigation.
- Industrial service water supply schemes, decorative water fountains, etc; head, H – max 96 mtr; discharge – max 3000 lpm; flow rate, Q – 180 m3/hr; and rating – 0.75 HP to 25 HP.

About the company: Tech-Mech Engineering Co is a manufacturer, distributor, wholesaler, exporter, trader and supplier of pumps, pumping systems, etc.

Contact:

Tech-Mech Engineering Co, Mumbai
Tel: 022-25915961, 67987667
Mobile: 09892323739. Email: techmechco@gmail.com

SOLID TYRES & WHEEL ASSEMBLIES

Royal Tyres offers a wide range of solid tyres and wheel assemblies.

Features:

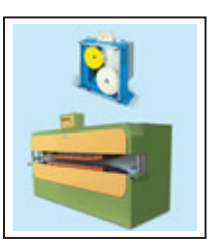
- Cost-effective world class solid press-on tyres; reliable and economical, the resilient press-on solid tyres have the optimum quality of tread compound for extended tyre life and increased efficiency.
- The press-on advantages: hi-lug tread – dynamically balanced hi-lug tread enhances durability to perform under the most difficult conditions and makes it resistant to chipping and chunking.
- Hub type – press-on tyres are also available in hub type for easier assembly directly on to the wheel axle; and effective bonding – only the best cushion adhesive with the latest bonding agent is used in manufacturing, ensuring zero chance of failure.

About the company: Royal Tyres Private Ltd offers solid cushion tyres, solid press on tyres, forklift tyres, resilient solid tyres, pneumatic solid tyres, industrial tyres, and trolley tyres, which are cost effective and dependable in the long run. These tyres are specially designed for high dynamic stability, high abrasion, cut and chipping resistance.

Contact:

Royal Tyres Private Limited, Chennai
Mobile: 09840364722. Email: info@royaltyres.com

BELT CATERPILLAR



Cable Tech Machine offers belt caterpillars.

Features:

- The offered belt caterpillars are peculiarly designed for constant pulling of cable without creating any strain on cable.
- Due to the independent gripping roller system, the irregularities of the cable can be adjusted; the compressed air cylinder applies pressure from both sides.
- There is a roller assembly on the belt to grip the cable. Further gripping pressure can be adjusted by means of an air regulator; the belt tension is pneumatically controlled and line speed and torque can be adjusted by a three speed gear box.
- Wire size copper – 1.50mm to 4.00mm dia; aluminum – 2.00 mm to 5.00 mm dia; Al alloy – 1.50mm to 4.00mm dia; configuration – 1+6+12+18+24+30; bobbin size – 400/500/630 DIN; cage speed – 300/250/200/150/100 rpm.
- Construction – steel fabricated rotor design supported on bearing at both ends; bobbin holding is pintle type.

About the company: Cable Tech is a manufacturer and supplier of machines for the cable and rope industry.

Contact:

Cable Tech Machine, Faridabad
Mobile: 09811010197. Email: info@cabletechindia.com

SPRING RETURN ELECTRIC ACTUATOR

Cair Euromatic Automation offers spring return electric actuator.

Features:

- Model – MOD - SPR - basic; torque – 130 nm; direction – clock wise; manual override – wheel type; open time for 90 degree – 7 seconds; close time for 90 degree (spring return) – 8 seconds.
- Made of aluminum alloy which can resist heat, acid, alkali; is water proof and dust proof; low power consumption, high efficiency, excellent weatherproof heavy duty motor.
- Stabilised start speed to effectively avoid water hammering to prolong the service of life tubes; advanced design manual override without any clutch to prevent the user from injury.
- All the joint on the housing are armed with waterproofing seal (IP 67), which is appreciated for use in the outdoor environment.

About the company: Cair Euromatic Automation Pvt Ltd is a manufacturer and exporter of electric actuators, motorised butterfly valve, motorised gate valve, etc.

Contact:

Cair Euromatic Automation Pvt Ltd, Ahmedabad
Mobile: 09979858634. Email: info@cairindia.in

DOUBLE HEAD POUCH FILLING & PACKAGING MACHINE, MODEL-CANNON 00 L DH

Canflex Engineering offers double head pouch filling and packaging machine - cannon 500 L DH.

Features:

- It is a double head fully fill and seal machine, available with both closed and open body; it also comes in both manual and fully automatic model to pack liquid products.
- The machine is integrated with a float balanced gravity flow filling system that works as a feeding head.
- Feeding head – float balanced gravity flow filling system; production speed – 85 - 90 pouches/min; machine control system – electronic timers; packing range – up to 500 ml; film width – up to 325 mm.
- Film material – co-extruded virgin films/co - extruded poly film/laminate film; inner core dia of film roll – 70 mm; outer dia of the film roll – up to 350 mm.
- Pouch style – centre sealed pillow type; pouch width – up to 150 mm; pouch length – up to 150/250 mm; power consumption – 4 kw/hour; peak power – 6 kw.

About the company: Canflex Engineering Pvt Ltd is a manufacturer and exporter of automatic form fill seal (AFFS) machines and pouch packing machines.

Contact:

Canflex Engineering Private Limited, Hyderabad
Mobile: 09848184590. Email: info@cannonindia.com

Brugarolas researches, develops, manufactures and supplies lubricants for various industrial activities tested by the highest quality control systems worldwide, meeting the following ISO standards: IQNETISO9001, ISO-TS16949.

Brugarolas

BRUGAROLAS, S.A. is a company founded 1885 dedicated to developing, manufacturing and marketing of lubricants and industrial auxiliaries. We are a company in continuous evolution, with quality a fundamental principle which is further guaranteed with our ISO-9001 certification, ISO TS-16949 and numerous international approvals and recognition.

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WANTED AUTHORISED DISTRIBUTOR FOR ENGINEERING INDUSTRY LUBRICANTS

FEATURED PRODUCT

Standard components for the mechanical industry

Elesa+Ganter offers the widest range of standard machine elements with a unique design, a perfect service and with the ability to create special customised solutions in a very short time.

The joint venture between Elesa (Italy) and Ganter (Germany) made its first steps into the East-European market and today it covers more than 70 industrialised countries worldwide. Its extensive product range proofs the typical cultural background of both the mother companies: high material quality combined with the best original design and accuracy in production.

The strong customer orientation of the parent companies led to the foundation of its subsidiaries in many countries including India.

Elesa+Ganter India

Headquartered at Noida (UP) and powered with dedicated team of qualified sales engineers and technical managers along with our pan India network of authorised channel partners for providing quick and efficient support to our existing customers and future prospects. With maximum stock availability and faster delivery times alongside a robust team of technical engineers have ensured customer satisfaction par with the best in industry.

Product Range

Elesa+Ganter offers wide range of 60,000 standard machine elements and the wide assortment of products grows constantly through the development of new products.

The company's product portfolio is comprised of:

- Operating elements, machine elements, indexing elements
- Clamping knobs, clamping levers, levelling elements, joints, hinges
- U-handles, fixed, revolving, fold-away handles
- Control elements, rotary controls, latches, hook, toggle and power clamps
- Accessories for hydraulic systems,
- Tube clamp connectors, castors and wheels, retaining magnets, etc

The company's high performing items are marked with their own icons, allowing standard parts to be selected specifically in terms of certain requirements: AE-V0 range, ATEX range, Clean Range, Ergostyle Range, INOX range, ESD Line, SAN Line, Soft line, Profile Compatible items.

Its USP is "Optimised and widest range of standard machine elements with fastest delivery times".

"We not only stand for our Italian design and German efficiency but are equally focused and committed to promptly respond to our customer's requirement."

Ram Grover, MD, Elesa and Ganter India Pvt Ltd

Manufacturing facilities

Elesa+Ganter entire product range is manufactured in their modern and fully automatic production units in (Monza) Italy and (Furtwangen) Germany.

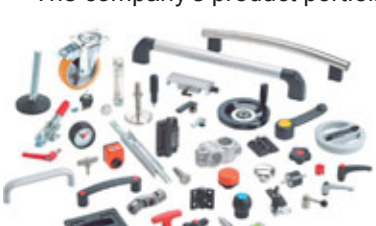
Application based customised solutions

Elesa+Ganter has a solution for virtually every application. In the unlikely case that you can't find what you need in its extensive range of products, the company can also offer you a customised, made-to-measure solution with special shapes, colours, surface treatments, product branding etc.

"We not only stand for our Italian design and German efficiency but are equally focused and committed to promptly respond to our customer's requirement," says Ram Grover, Managing Director, Elesa and Ganter India Pvt Ltd.

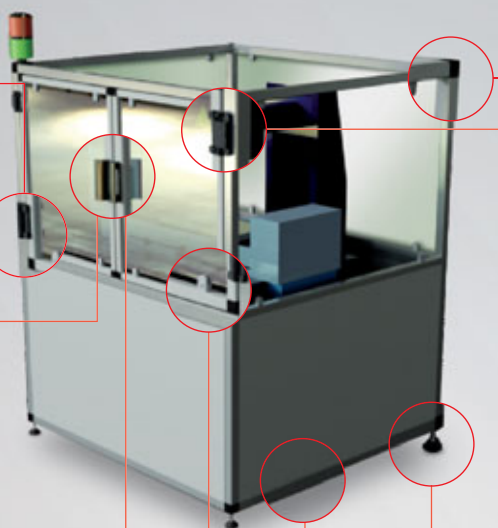
Sectors and applications

Elesa+Ganter standard elements are designed to meet the needs of applications in several industrial sectors like Catering & food industry machines, printing & packaging machines, construction & material handling equipment, medical, chemical and pharmaceutical industries, textile machinery, and many more. IPF



(Communication provided by the management of the company)

For your machine protections here are our solutions: corrosion-free stainless steel and technopolymer components



Hinges

Handles

Locking systems

Panel support clamp

Tube connectors & end caps

Safety hinges

Levelling elements

Accessories for profile systems

Elesa and Ganter: more than 70 years of leadership in the field of producing plastic and metal components for the mechanical engineering industry. Italian design and care. German performance and efficiency. The widest range of products and a full stock of standard elements offering quick and on time delivery worldwide including India.

One World of Standard Parts

Operating elements | Clamping knobs | Clamping levers | U-handles | Rotary controls | Indexing elements | Machine elements | Levelling elements | Hinges | Hydraulic accessories

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Elesa and Ganter India Pvt. Ltd. : A-54, Sector-83, Noida-201305 (UP) | Ph. +91 120 4726666 | info@elesaganter-india.com

FARR GOLD SERIES EXTRACTOR

Camfil Air Filtration India offers farr gold series extractors.

Features:

- The gold series may be used for a wide variety of pollution control and product recovery applications; in most cases, it meets the 5 mg per cubic meter or fewer emissions required to recirculate air back into the workplace on non-hazardous dust.
- Meeting air flow requirements with a 25% smaller housing, the gold series delivers premium performance at a competitive price and takes up less floor space; the service benefits are numerous and include faster, trouble-free change-out of cartridges.
- The farr gold series cartridge dust and fume collectors may be used for a wide range of pollution control and product recovery applications including blasting, chemical processing, pharmaceutical manufacturing processes, fibreglass and frp, food processing, laser/plasma cutting, paper scrap, rubber grinding, etc.

About the company: Camfil Farr Air Filtration India Ltd manufactures and supplies air filtration products for industrial applications.

Contact:
Camfil Air Filtration India Pvt Ltd, Gurgaon
Mobile: 08527501119. Email: pksv.sagar@camfil.com

BULK STORAGE SYSTEM

CBM Engineering offers a wide range of bulk storage systems.

Features:

- Wide range of hoppers are offered which are primarily used for coal, sandstone and limestone.
- These have a storage capacity of up to 200 ton. Apart from this, the company specialises in manufacturing of bulk storage silos for cement and fly-ash of 60 cubic meters to 100 cubic meters volume.
- The hoppers are fabricated from 2062 plate and SAIL hard plates and have an inner lining of hardox 400 plate.
- Furthermore, these are manufactured in accordance with international standards and are delivered within specified time frame.

About the company: CBM Engineering is a supplier of critical boiler equipment, pressure vessels, heat-exchangers, hydro-power equipments and EOT cranes. The company is also engaged in manufacturing and supplying a wide range of pre-heaters, evaporator bodies, material handling equipments, cement and sugar plant equipment and brick making machines.

Contact:
CBM Engineering, Yamunanagar
Mobile: 09996925845, 09996925847
Email: info@cbmenggworks.com, cbm.info@yahoo.in

ROTARY INDEXING TABLES

Bettinelli Automation Components offers rotary indexing tables, IT series.

Features:

- The product can be provided with a flexible number of stations designed for programmable positioning via servo motor input, or a fixed number of stations designed for accurate and repeatable indexing motion applications.
- The IT series is a perfect choice for either flexible or dedicated rotary positioning applications; it provides the added convenience of having one common rotary table platform for either application requirement.
- Features include an induction hardened precision barrel cam set and solid cam follower technology, & the design enables right angle input to output arrangement.
- Typical applications include: rotary dial positioning tables, indexing tables, rotary stages, servo driven rotary positioners; flexible positioning via servo motor or fixed station positions for indexing motion; smooth and controlled motions, backlash free.

About the company: Gate TI is a designer and manufacturer of precision motion control components and systems for automated manufacturing machinery.

Contact:
Bettinelli Automation Components Pvt Ltd, Pune
Tel: 020-67236484.
Email: info@bettinelli.in

WIND POWER CABLES

Centurion Power Cables offers a quality range of wind power cables.

Features:

- The offered cables are manufactured using basic material and modular machines in compliance with set industry standards; this cable is used in various industrial applications for transferring power.
- Flame retardant, halogen free, low smoke creating ship wiring cables with stranded or fine stranded copper conductors, special halogen free XLPE insulation, rubber fillers, copper wire braiding and special synthetic outer sheath.
- These cables can function under fire for 180 minutes; the cables are produced according to IEC 60092-350/IEC 60092-353 and tested as per given standards.
- They are utilised as power and control cables with mechanical and electrical protection for fixed installations on decks, dry, wet and steamy places in ships and other marine vehicles.
- They are designed to keep on functioning during fire & also used for safety, alarm and other critical systems.

About the company: Centurion Power Cables Pvt Ltd is a manufacturer and supplier of a broad range of PV solar cables, PVC cables, rubber cables, etc.

Contact:
Centurion Power Cables Pvt Ltd, New Delhi
Mobile: 09953597971. Email: info@centurioncables.org

FLEXIBLE SHAFT COUPLING

Excella Electronics offers a wide range of flexible shaft coupling.

Features:

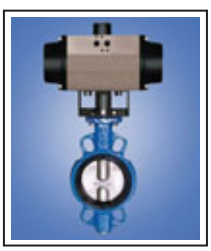
- The flexible shaft coupling adjusts itself to the misalignment (angular, parallel, skew) of two shafts connected by it and transmits torque and motion from one shaft to the other.
- This coupling is widely used to couple tachogenerators, encoders, etc.
- One-piece construction made of aluminium alloy or stainless steel material; flange or set screw clamping; offset adjustment up to 5° and parallel up to 0.2°; and no backlash with constant velocity transmission

About the company: Excella Electronics was established in 1966 and has been engaged in manufacturing motion control devices for more than four decades.

Contact:

Excella Electronics, Mumbai
Tel: 022-21029911
Fax: 022-21029922
Email: kedar@excellaelectronics.com, joshi@excellaelectronics.com

PNEUMATIC ACTUATED BUTTERFLY VALVE



Ashok Vijay Engineering Works offers wide range of pneumatic actuated butterfly valve.

Features:

- Actuator butterfly valves offered find application in meeting up with the mechanical application needs in different industry sectors.
- These are best applied in areas requiring regulated flow of fluids using a series of pipes; the valves are also used in larger lines in form of front as well as rear suctions as well as in fire apparatus based applications.
- The firm's expertise lies in making available in different dimensions and specifications including in customised finish options.
- Application in industry sectors like petrochemical, gas, fertilizer plants, chemicals, refineries, power generation plants and others.

About the company: Ashok Vijay Engineering Works is a manufacturer, trader and supplier of piston valves, ball valves, ammonia valves, gate valves, check valves, globe valves, butterfly valves and forged valves.

Contact:

Ashok Vijay Engineering Works, Ahmedabad
Tel: 079-25622238
Mobile: 09099924050, 09099963060
Email: ashokvijay12@rediffmail.com

FURNISH EJECTOR

Champion Ispat offers furnish ejectors.

Features:

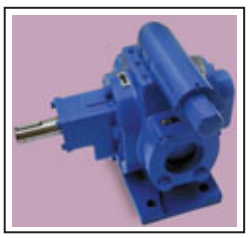
- Casing and castings – cast steel; suspension plate – cast steel, ribbed for reinforcement; thrust bearing – ball bearing mounted above the suspension plate in a dustproof housing.
- Guide bearings – cast bronze, renewable; one for each four feet of unsupported shaft length, plus one bearing located in the pump casing.
- Shaft – alloy steel, ground and polished to a tolerance of + 0.0000" - 0.0015"; impeller – cast steel, non-clog, one piece and balanced.
- Motor shaft connection – flexible coupling, machined and balanced; discharge pipe – vertical, locked to the suspension plate, terminating in a 45° elbow.
- Suspension leg – cast steel with integral end flanges for each section; lubrication – individual flexible copper grease lines for each guide bearing, ending in a grease fitting above the suspension plate.

About the company: Champion Industries is a manufacturer and exporter of machinery and components used in pneumatic engineering and steel rolling mills.

Contact:

Champion Ispat Udyog, Mandi Gobindgarh
Mobile: 9814700424. Email: champindustries@gmail.com

ROTARY GEAR PUMP, TYPE RDBX RDNX



Parekh Engineering Company offers rotary gear pump, type RDBX RDNX.

Features:

- The proven range of rotary twin gear pump, type 'RDRN' has been modified to achieve high pressure by reducing the bearing span, balancing the hydraulic force and blocking the slippage path but without compromising on the basic features.
- A pair of an impeller with herringbone gear fitted on hardened and ground shaft with shaft sleeves in floating design supported on either side of needle/ bush bearings located on end covers with lab.
- Wearing plate packed in between and placed inside close tolerance accurately machined casing with built in pressure relief valve.
- Size 3" to 6" are foot mounted with inlet-outlet port drilled to ASA-300 class; type RDBX is a bush bearing version and is offered up to 2 1/2" size.

About the company: Parekh Engineering Company, is a supplier, trader and exporter of a wide range of pumps, motors and gearboxes.

Contact:

Parekh Engineering Company, Mumbai
Mobile: 09892218186. Email: parekeng@vsnl.com

CENTRIFUGAL MONOBLOCK PUMP WITH BACK SIDE SUCTION

Creative Engineers offers a centrifugal monoblock pumps with back side suction.

Features:

- These pumps are widely used in different industries like detergent, textile, chemical food processing, pharmaceutical, milk products, etc.
- The pumps are highly preferred for their sturdiness and high tensile strength; as all pumps are made from rolled stainless steel, mechanical properties are far superior then cast material; pore free, non-pitting and non-adhering smoother surface.
- Super finish surface also ensures no ingress or emission of germs or impurities during pumping or idling which is a basic requirement of sterile/hygienic application; pump can handle liquids having viscosities up to 1500 centipoises.
- Pumps are highly energy efficient and require less NPSH to function without cavitation; they can work under a vacuum of 720 mm of hg, suitable for vacuum evaporators.

About the company: Creative Engineers manufactures & trades different types of industrial and chemical pumps.

Contact:

Creative Engineers, Ahmedabad
Mobile: 08140179903. Email: malharpump@gmail.com

CENTRIFUGAL BACK PULLOUT PUMPS

Leakless (India) Engineering offers centrifugal back pullout pumps.

Features:

- Centrifugal back pullout pumps come with back pullout design support that allows the pump's rotating element to be easily removed for servicing without the requirement of disconnecting associated pipe work.
- Finding usage suitability in areas like irrigation, water transfer, mining, pressure boosting, building services and other applications; available in different working capacity and temperature range to choose from.
- Back pullout design support provided allows the pump's rotating element to be easily removed for servicing without the requirement of disconnecting associated pipe work; pumps finding usage suitability in areas like irrigation, water transfer, mining, pressure boosting, building services and other applications.
- Special sealing support for high working performance.
- Quality duty bearing support that is lubricated for life.

About the company: Leakless (India) Engineering is a manufacturer, supplier and exporter of pumps and pumping equipment. The offered range comprises chemical pumps, industrial pumps and mechanical seals.

Contact:

Leakless (India) Engineering, Mumbai
Mobile: 09892414245. Email: is@leaklesspumps.com

PVC PIPE SOCKETING MACHINE

Candour Machinery provides PVC pipe socketing machines.

Features:

- The product is a semi automatic pneumatically operated smooth socket PVC pipe end belling machine from 50mm to 200mm with one forming station of solid steel mandrell and cooling by external water pump spray; monogram embossing and ejection automatic cyclic operation.
- Easy and quick die changing design; digital temperature controller with sensor for heating systems; infrared heater's heating chambers (inside SS) come with suitable insulation.
- Embossing device attached to get company' monogram on each formed socket; stainless steel (304) tank for water storage; hard chrome plated mandrels; high quality standard makes pneumatic cylinders.
- Pipe supporting adjustable stands for 6 m long pipe.

About the company: Candour Machinery Pvt Ltd in develops & manufactures products and services related to printing and plastic auxiliary like hi-tech automatic, semi automatic, standard systems to print on any surface etc.

Contact:

Candour Machinery Pvt Ltd, Ahmedabad
Mobile: 9825494079. Email: candourmachinery@gmail.com

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Technical Details:

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Coil Weight	:	Up to 10 MT
Coil Thickness	:	0.2 to 2.0 mm
Cutting accuracy	:	0.05mm

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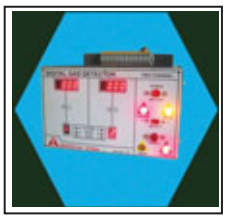
GAS DETECTOR SYSTEM, DIGITAL



Abhitron India offers digital gas detector system for industrial purpose, which works on 230 V/AC.

Features:

- The digital indicator gives accurate reading of the gas concentration of around 250 hazardous gases and gives the safety alarm as per international standard levels for ambient atmosphere.
- This system helps identifying potentially hazardous gas leaks; the system transmits warnings via a series of audible and visible signals such as alarms and flashing lights when the danger levels of gas vapours are detected; as the system measures a gas concentration, the sensor responds to a calibration gas, which serves as the reference point or scale; as a sensor's detection exceeds a preset alarm level, the alarm or signal will be activated.
- This system helps the user to see the actual gas concentration from far distance; toxic levels can be given in PPM range, lower explosive limit in LEL range and also concentration by volume in percentage; the response time for detection is within 2 seconds.

About the company: Established in 1985, Abhitron India is in the process of manufacturing electronic gas detection systems for the last 20 years. This company has been awarded with ISO 9001: 2008 certification.

Contact:

Abhitron India, Mumbai
Tel: 022-26361469
Email: abhitronindia@gmail.com, dilip@abhitronindia.net

MORTAR GROUTING MACHINE

Visflow Helical Pumps offers mortar grouting machines.

Features:

- The grouting machines are used for cement slurry and grout mortar to a tiled surface.
- They include a rotatable, frustroconical shroud that has radially extending blades and is equipped with the resilient foot pads that are positioned at the bottom edges of the shroud.
- The grouting machines offered are also fitted with the blades that are in contact with the tiled surface, to make sure its outer end precedes and its inner end is in the direction of rotation of the shroud.
- Furthermore, each of these blades is tilted to make sure that the upper edge is ahead of its lower edge in the direction of rotation of the shroud.

About the company: Visflow Helical Pumps manufactures, supplies and exports a wide range of industrial pumps.

Contact:

Visflow Helical Pumps, Coimbatore
Mobile: 09363223423. Email: sales@visflowpumps.com

DIFFUSERS

Soltech Pumps & Equipment offers diffusers.

Features:

- Available as tube, disc, and panel diffusers; industry standard material in municipal applications; high temperature resistance up to 240°F (115°C).
- Good chemical compatibility to ensure success in both municipal and industrial applications; formulation modification capability for application specific conditions – additions of biocides, coatings, fluorination.
- Material flexibility correlated to lower DWP – easier to install because of flexibility and density of the membrane; good uniformity and distribution of releasing air bubbles.

About the company: Soltech Pumps & Equipment Pvt Ltd, is a manufacturer, supplier, distributor, wholesaler and trader of a wide range of premium quality pumps and valves. The product range offered consists of polypropylene pumps, chemical process pumps and metallic pumps.

Contact:

Soltech Pumps & Equipment Pvt Ltd, Delhi
Tel: 011-42444289. Mobile: 09310156040
Email: soltechpump@rediffmail.com

CENTRIFUGAL PROCESS PUMPS

Mieco Pumps & Generators provides centrifugal process pumps that are used to move liquids through a piping system.

Features:

- These process pumps are manufactured using quality tested components and advanced technology in line with industry norms.
- Dynamically balanced impellers, hence less noise and vibrations; micrometric wear adjustable facility hence works at constant head for longer period; latest back pull out design enabling easy servicing without dismantling suction and delivery pipe line installations.
- Gun metal impeller having high resistance to corrosion designed for maximum efficiency, electro dynamically balanced to give trouble free long lasting service; high quality mechanical rotary seal for leak proof long life application.
- Size – 1 inch to 18 inch (25 mm to 450 mm); capacities – 5,000 m3/hr (to 22,000 gpm); heads – 73m (to 240 feet).

About the company: Mieco Pumps & Generators Pvt Ltd offers centrifugal process pumps, cleaning machines and electric motors.

Contact:

Mieco Pumps & Generators Pvt Ltd, Bengaluru
Mobile: 09845324047. Email: info@miecoindia.in

PP CORROSION RESISTANT PUMP

Propeller Pumps offers corrosion resistant PP pumps.

Features:

- PPC process pump is a horizontal single end suction standardised back pull out process pump; These pumps are supplied with mechanical seal/gland packing arrangement covering 85% of the chemical industries requirement.
- The pumps are manufactured from polypropylene copolymer which is a chemically inert thermoplastic by the use of an exclusive molding process.
- These pumps provide an unusual protection against highly corrosive chemicals; the solid molded casing and impeller ensure a smooth running pump for long life and minimum wear.
- All pumps and shafts are fitted with sleeves of different materials compatible with the liquid handled.

About the company: Propeller Pumps manufactures, exports and supplies industrial pumps like polypropylene pumps, self priming pumps, polypropylene process pumps and self priming centrifugal pumps.

Contact:

Propeller Pumps, Ahmedabad
Mobile: 08758606486, 09898385472
Email: propellerpumps@ymail.com

VERTICAL IN-LINE PUMPS

Zed Plus Enterprise offers vertical in-line pumps.

Features:

- Vertical in-line pumps are integral components of the pipework, eliminate need for inertia bases, inertia base springs, flexible pipe connectors, field grouting and alignment.
- Pipe hangers sized for the weight of pump, piping and fittings are the only supports required; pipe stools may be installed under each pipe leg.
- Greatest floor space savings result when vertical in-line pumps are installed with armstrong suction guides and flo-trex valves shown on the inlet and outlet of the pump above.
- Equivalent base mounted, horizontal split case pumps may take three times more floor space; the mechanical seal is the critical service item in any pump.
- Removal of the series 4300 split spacer coupling allows all mechanical seal components to be withdrawn for servicing.

About the company: Zed Plus Enterprise is engaged in providing industrial pump sets. It includes stainless steel pumps, sewage pumps, weir pumps, submersible pumps, dewatering pumps and electric motors.

Contact:

Zed Plus Enterprise, Ahmedabad
Mobile: 09825069079. Email: zedplusin@gmail.com

HYDRAULIC DIAPHRAGM METERING PUMP

Metachem Corporation offers hydraulic diaphragm metering/ dosing pumps.

Features:

- The hydraulically balanced diaphragm pump is a hybrid design; like the other pumps its power end and capacity control are common.
- This, however, is where the similarity ends, since the plunger does not come into contact with the pumped fluid, and the actuation of diaphragm is by hydraulic power instead of mechanical power.
- The pump consists of three sections which are the drive end, hydraulic chamber end, and the liquid end.
- The diaphragm head is fitted to the stroke length control mechanism; the plunger reciprocates within a precisely sized cylinder at an established stroke length, displacing a volume of hydraulic liquid.
- The hydraulic liquid is stable and has excellent lubricating qualities; the plunger uses the hydraulic oil to move the diaphragm forward and backward.

About the company: Metachem Corporation is engaged in the manufacture and sale of chemical metering/dosing pumps.

Contact:

Metachem Corporation, Mumbai
Tel: 022-28365767. Email: sales@metachempumps.com

RIDE ON INDUSTRIAL SCRUBBER DRYER

IP Cleaning India offers ride on industrial scrubber dryer.

Features:

- Huge solution tank capacity in minimum external space; extensive running time; high quality and performance vacuum motor.
- Great visibility whilst working; easy access to internal compartment; inlet and outlet filters for solution tank protection.
- Brush replacement without tools; squeegee designed to absorb harsh impact
- Great maneuverability due to an optimum weight distribution; automatic squeegee lift in reverse.

About the company: Established in 1996 and since then continuously has been distributing, servicing and maintaining the cleaning products supplied to various industries. The products range consists of dry vacuum cleaners, professional wet and dry vacuum cleaners, upholstery vacuum cleaners, etc.

Contact:

IP Cleaning India Pvt Ltd, Delhi
Tel: 011-26950231, 26950232
Mobile: 09560908275, 09312633609
Fax: 011-22158524
Email: info@ipcleaning.in

CHEMICAL PROCESS PUMP

Jay Ambe Engineering Co offers polypropylene chemical process pumps.

Features:

- Polypropylene pumps are a horizontal single end suction standardised back pull out centrifugal pumps.
- PPC series anti-corrosive pumps are supplied with mechanical seal or gland packing arrangement covering 85% of the requirements.
- JEC polypropylene pumps are manufactured from polypropylene copolymer, a chemically inert thermoplastic, by the use of an exclusive moulding process; polypropylene pumps give protection against highly corrosive chemicals.
- The solid moulded casing and impeller ensure a smooth running of the pump and long life with minimum wear.
- JEC polypropylene process pump are fitted with sleeves of different materials that make these easily compatible with any type of liquid.
- Polypropylene pumps are suitable for highly corrosive chemicals like sulfuric acid, hydrochloric acids, effluent.

About the company: Jay Ambe Engineering Co offers all type of chemical process pumps, industrial pumps, pinch valves and centrifugal pump accessories.

Contact:

Jay Ambe Engineering Co, Ahmedabad
Mobile: 09825294166. Email: info@jecwoodland.com

DUAL PLATE CHECK VALVE - METAL SEATED

Unitek Valves offers a wide range of dual plate check valves.

Features:

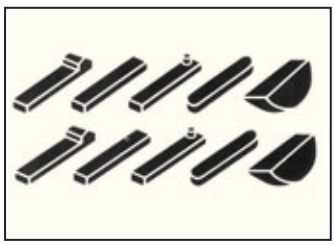
- These valves are fabricated in customised options and in adherence to the industry's norms and standards.
- They are available in various dimensions; compact design; durable nature.
- These valves with excellent packing options meet the exact needs of the customers.
- Other features of these valves are longer service life, flawless finish, robustness, high strength, etc.

About the company: Established in 2011, Unitek Valves Pvt Ltd is engaged in manufacturing and exporting a quality approved assortment of leader valves, Audco valves and Spirax steam traps. Our product range is quality approved against the diverse quality parameters by our quality experts to ensure the functionality and performance.

Contact:

Unitek Valves Pvt Ltd, Navi Mumbai
Tel: 022-28505578 Mobile: 09821390936, 09167531261
Email: info@unitekvalves.com, sales@unitekvalves.com

PARALLEL & WOODRUFF KEYS



R K Engineering Company manufactures a wide range of Parallel and Woodruff Keys.

Features:

- Parallel keys are manufactured as per IS: 2048/83 and woodruff keys as per IS: 2294. These are made from EN-8/9 material in soft condition.
- They can also be made from SS-410 and SS-316. The keys are used in automobile industries, textile industries, machine tool industries, motor and pump industries, cement industries, etc.
- Also offered are non-standard keys to suit customer's requirements.

About the company: R K Engineering Co commenced its business operation in the year 1976. It is engaged as a manufacturer, exporter, supplier for grooved pin, dowel pin, taper pin, spring dowel pin, circlip, parallel keys.

Contact:

R K Engineering Company, Mumbai
Tel: 022-22671141 Fax: 022-22655255
Email: rkeng@vsnl.net

CASTED Y TYPE STRAINERS

Fluid Flow Solutions provide a wide range of casted Y type strainers that are widely used for oil, gas and chemicals in various industries.

Features:

- These products are checked against different parameters of quality to deliver the defect free range.
- Apart from this, these are highly acclaimed among the clients for their several qualitative attributes such as sturdiness and reliability.
- Available MOC body – cast iron/cast steel Gr WCB 216/ASTM A351 Gr CF8/ASTM A351 Gr CF8M/ ASTM A351 Gr CF3/ASTM A351 Gr CF3M; perforated seat – SS 304/SS 316; mesh – SS 304/SS 316.
- End connection – flange end; pressure rating – class 150#, 300#, 600#; screen available – 2 mesh to 80 mesh; sizes available 1/2" to 10".

About the company: Fluid Flow Solutions is a manufacturer, exporter, supplier and distributor of an extensive array of optimum quality industrial pumps and pressure gauges. The product range offered consists of industrial strainers, industrial valves and industrial pumps.

Contact:

Fluid Flow Solutions, Ghaziabad
Mobile: 07409661144, 09999088001
Email: fluidflowsolutions@gmail.com

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info@insutech.net
www.insutech.net

U BOLTS

MUPRO India offers a wide range of U bolts, similar to DIN 3570, form A, galvanised.

Features:

- Design similar to DIN 3570; standard material S235JR (St37) acc. to DIN EN 10025.
- Electrolytically galvanised, supplied with 4 nuts acc. to DIN 934; in the M8 to M12 versions, also with 4 washers.
- For simple pipe attachment in building technology and industrial construction.

About the company: MUPRO is a provider of support, vibration control and fire protection systems. The group is represented worldwide, with seven subsidiaries in Germany, 13 companies in other countries and more than twenty international sales partners. The company produces and markets optimum quality support system solutions for the industrial installation and building engineering services sectors with special focus on structure-borne vibration control technology.

Contact:

MUPRO India Pvt Ltd, Mumbai
Tel: 022-41202014 Fax: 022-41202015
Email: info@mupro.in

SINGLE PHASE INVERTER

Binary Engineering offers a wide range of single phase inverter.

Features:

- The home UPS offered is technologically advanced and ideal for light and fan; it is a sine wave UPS; the company offers home UPS for computers with two years warranty.
- Digital switching technology: exclusively designed digital circuit for protection and instant response time
- Digital circuit renders better power facility and ultimate safety to appliances; digital power inverter utilises MOSFET with PWM technology
- Self–explanatory LEDs that instantly show the operations or state of the inverter; operational with auto scan and auto reset features; gives audio alarm or LED glow in case of an overload; operates on a wide input voltage range (160 V to 290 V); automatically switches over to inverter mode.
- Easy installation; hassle free functions; longer backup facility; corrosion resistant; compact design; lightweight; shock proof.

About the company: Binary Engineering is a manufacturer of high capacity voltage regulating devices. Its wide range of products is intended for standard as well as special applications capable of handling up to 5,000 KVA.

Contact:

Binary Engineering, Vasai
Mobile: 09322837555. Email: rajiv@binaryengg.com

HEAT RECOVERY UNIT

Thermotech (India) offers energy saving heat recovery unit that reduces the fuel consumption of boiler plants.

Features:

- The heat recovery unit is basically energy saving equipment; installation of such unit results in reduced fuel consumption of boiler plants; the unit can be installed in the line of hot water, condensed steam, unused steam or waste flue gases.
- This heated water is then fed to the boiler plant thus increasing the efficiency of boiler and reducing the operating costs; various types of extended surface finned tubes are used in such units as heat transfer elements depending upon the required temperature and pressure applications.
- Materials used for construction are carbon steel or stainless steel; airside flanges can also be made for connecting in between the ducts as per customer's requirements; the heat recovery unit is used in steel plants, process houses, textile industries, etc.

About the company: Thermotech Industries (India) Pvt Ltd has existed in the field of manufacture of finned tubes and heat exchangers.

Contact:

Thermotech Industries (India) Pvt Ltd, Rabale
Mobile: 09821876052. Email: thermotech.ind@gmail.com

CHAIN PULLEY BLOCK

HERC Material Handling LLP offers chain pulley blocks.

Features:

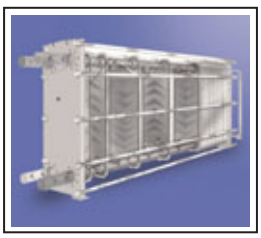
- Apart from high safety, these pulley blocks also come with optimised transmission ratio that allows for improved operation support.
- Its features include finding suitability for lifting of objects and mechanical traction; used in shipbuilding, construction, mining, electric power, transportation, telecommunications areas; allows for safe, reliable and good performance support; light weight, convenient to carry finish.
- Capacity ranges from 1 ton to 25 ton; automatic double pawl braking system; sealed bearings; light weight robust construction; low effort to lift maximum load; double cover protection; extra thick friction discs.
- Zinc plated hand chain as standard; built-in overload protection device; each chain block is proof tested to 50 per cent overload; fully forged hooks are fitted with safety latches as standard.

About the company: HERC Material Handling LLP is a manufacturer and supplier of industrial crane, hoists and lifts.

Contact:

HERC Material Handling LLP, Pune
Mobile: 08879489070, 09930360605
Email: hemanshuchawla@gmail.com

HEAT EXCHANGER, PLATE TYPE



Heat Chem Engineers offers plate type heat exchangers.

Features:

- The heat exchangers consist of a series of plates with corrugated flat flow passages.
- The hot and cold fluids flow in alternate passages, and thus each cold fluid stream is surrounded by two hot fluid streams, resulting in very effective heat transfer.
- Well suited for liquid-to-liquid applications; compact type heat exchanger is used for liquid to liquid heat transfer.
- It is very economical and occupies limited space; optimum heat transfer available due to a customised embassies plate.
- Available in various types: gasket plate heat exchanger; welded plate heat exchanger; brazed plate heat exchanger.
- Serviceability; less downtime; safety; long life; used for heating, steam heating, cooling and heat recovery.

About the company: Heat Chem Engineers Pvt Ltd is a manufacturer and supplier of heat exchangers.

Contact:

Heat Chem Engineers Private Limited, Ahmedabad
Mobile: 09824012766, 09601262766
Email: marketing@heatchem.net, sales@heatchem.net

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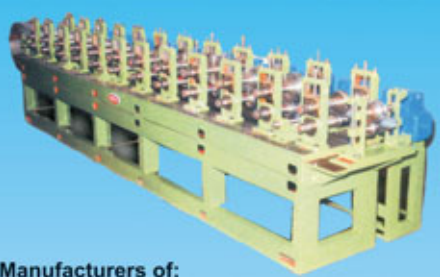

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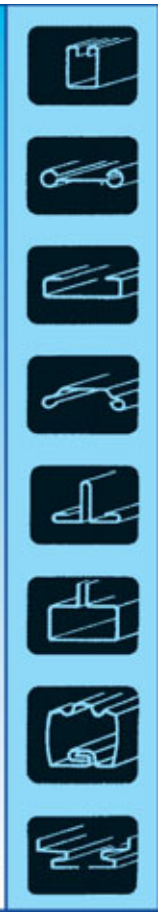
Email: sedvik@vsnl.com Web: www.sedvik.com



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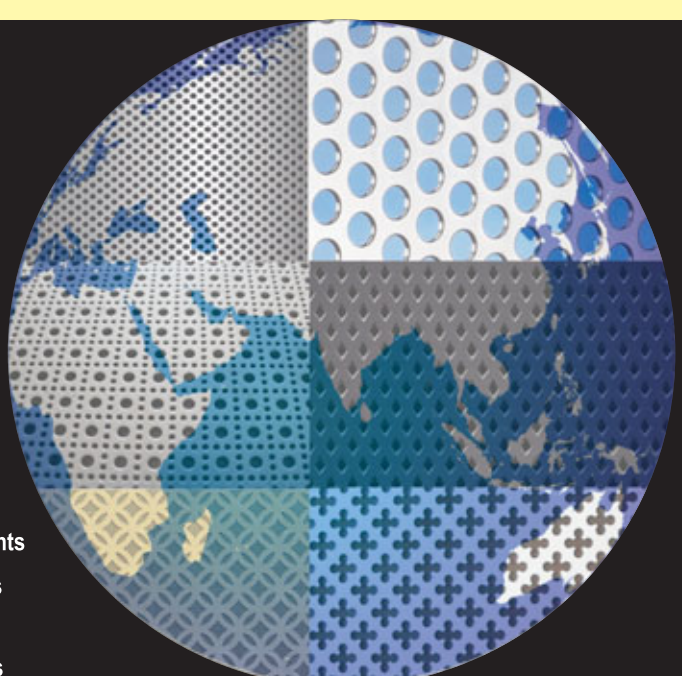

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Email: diamondscreens@vsnl.com | Website: www.diamondscreens.com

REACTORS

Kwality Process Equipments provides reaction vessels using various grades of stainless steel, SS304 and SS316.

Features:

- These are mainly used in chemical and pharmaceutical industries; the manufacturing capacity ranges from 500 litre to 40,000 litre.
- The company has fabricated pressure vessels with standing hydro test pressure of 50kg/cm2, having shell thickness of 25 mm and dished ends of 30mm thickness with 100 per cent radiography.
- Reactors: Capacity 500 ltr to 40 kltr; reactor with limpet coil; reactor with jacket; reactor with mechanical seal

About the company: Kwality Process Equipments Pvt Ltd (KPEPL) was founded in 2000 and is involved in the field of manufacturing pressure vessels and processing systems. The company provides solutions in manufacturing GMP and non GMP equipment for chemical, pharmaceutical, paints and other process industries.

Contact:

Kwality Process Equipments Pvt Ltd, Palghar
Mobile: 08007991793, 09324623556
Email: pdmakwana@vsnl.net

VACUUM PRESSURE BLOWERS

Promivac Engineers offers side channel vacuum pressure blowers.

Features:

- These are specially designed and fabricated to ensure high efficiency and trouble-free operation.
- They are virtually maintenance free as they perform neatly without causing any friction or vibration; the moving parts neither touch each other nor have any contact with the stationary body, and therefore require no lubrication at all.
- Compact design, light weight but rugged construction supplemented with trouble free performance makes them cost effective as well.
- The main assembly of the blower consists of dynamically balanced multi bladed impeller which is made to revolve at a very high speed in a specially designed stator cum compression chamber, ensuring very fine clearance between them; the impeller is fitted directly onto a bearing mounted shaft of a superior quality flanged electric motor.

About the company: Promivac Engineers manufactures industrial pumps.

Contact:

Promivac Engineers, New Delhi
Tel: 011-23281082. Email: promivac@vsnl.net

WIRE IDENTIFICATION SLEEVES

Paras Enterprises offers a wide range of CYG MT heat shrinkable wire identification sleeves.

Features:

- Made of radiation cross linked polyolefin material; identification of wires and cables by computer-based printing onto sleeve
- Ideal for applications where limited fire hazard characteristics - halogen material coupled with low smoke and low toxic fume emissions make this product ideal for use in enclosed space such as mass transit, marine and industrial installations.
- This product is not recommended where strain relief properties are required; permanent identification sleeves; computer-for aerospace applications; lightweight for aerospace applications; military specification material and print performance 2:1 and 3:1 shrink ratio; UL recognised VW-I all flame tubing test rated; qaic/c recovery for heat sensitive areas.

About the company: Paras Enterprises is engaged as a marketing organisation for splice protection sleeves, fusion splicing, ribbon splice protection sleeves, micro sleeve, flame retardant heat shrinkable tube, heat shrinkable sleeves, heat shrink protectors, etc.

Contact:

Paras Enterprises, New Delhi
Tel: 011-25731640. E-mail: info@parasenterprises.com

ROTARY UNIONS

Fluconn Company offers a wide range of rotary unions.

Features:

- Transferring fluids while in rotation is the main function of a rotary union; the firm offers a wide range of these products, the range comprising rotary unions, rotary joints, roto seals, rotating cylinders (hydraulic and pneumatic) and rotary distributor valves for SPMs.
- A wide choice of rotary unions is available for handling media such as air, coolant, gas, hydraulics, steam, thermic fluids, vacuum and water.
- The application ranges from a mere swivelling action to spinning at 15,000 rev/min; in the range of temperature, they work from cryogenics to 350°C.

About the company: Fluconn Company has been engaged in manufacturing rotary unions since 1982. Fluconn Company has been the pioneer in manufacturing rotary unions in India, and the only one in the organised sector. The range and design of Fluconn products covers every existing application for rotary unions in a wide spectrum of industries.

Contact:

Fluconn Co, Vapi
Tel: 0260-2452068, 2452093
Fax: 0260-2453089
Mobile: 09825119126, 9426572113
Email: response@fluconn.net, fluconn@gmail.com

PAPER INDUSTRIES ROTARY JOINTS

Carbon Rotofluid is providing a broad array of rotary joints.

Features:

- Paper industries rotary joints are resistant against high temperature and pressure and can withstand temperature of 270°C and pressure of 250 PSI of steam.
- Variable size ranging from 1/2" BSP to 4" BSP and uses stationary syphon.
- The threaded rotors of these joints are built in accordance with ISO 228/NPT/Metric which guarantees high operational performance, durable life and easy usage.
- Joint life is extended; corrosion resistant special carbon seal ring for better life; carbon seal ring used in different grades as per application; sleeves often reusable reducing repair cost.
- Exceptionally long service without lubrication; handles a wide range of operating conditions; reduces expensive downtime with wear indicator.

About the company: Carbon Rotofluid Pvt Ltd manufactures, exports and supplies 'Carbon Brand' products such as rotary joints and rotary union, swivel joints, mechanical seals, etc.

Contact:

Carbon Rotofluid Private Limited, Ahmedabad
Mobile: 09824052973. Email: carbon2000@hotmail.com

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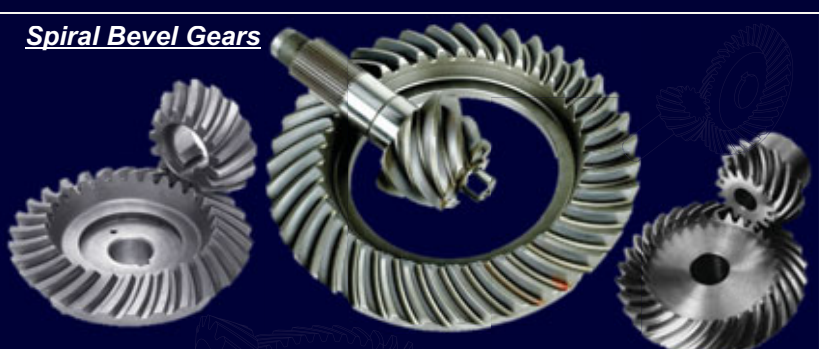

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Module : 1.75 to 10
Material : Case Hardening Steel and Non Metal Viz Derlin Etc.,

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www.ggdipl.com Tel: +91-8088931951 / 58 info@ggdipl.com

ELECTROMAGNETIC FLOWMETER

Creative Engineers offers 'Torque' make series 6400 (Full Bore Type), a new range of bipolar pulsed DC full bore type electromagnetic flowmeter.

Features:

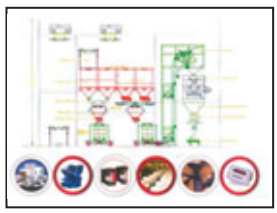
- It is suitable for pipes with nominal diameters of DN 10 to DN 600; based on Faraday's law of electromagnetic induction; the series 6400 meters features flanged construction and is available with choice of liner and electrode materials.
- The meter is suitable for use on wide range of corrosive and aggressive conductive liquids; suitable for pipe sizes of diameters 10mm to 600mm; coil assembly in hermetically sealed welded construction; optional LED display for flow rate or Totaliser indication in engineering units.
- Absolute zero stability and noise elimination; measurement independent of liquid properties; display of flow rate directly in user specified engineering units.

About the company: Creative Engineers manufactures various types of pumps, centrifugal pumps related products.

Contact:

Creative Engineers, Ahmedabad
Mobile: 08140179903. Email: info@sspumpsindia.com

AUTOMATED WEIGHING AND BATCHING



Autosys Engineering offers a wide range of automated weighing and batching systems.

Features:

- With extensive experience in automated weighing and batching of materials from grams to tons, Autosys can not only improve the quality and consistency of the end product but can also make major improvements in cycle times (process throughput time) and plant output capacity.
- The company also provides: weight indicators / weighing scales; batching controllers, PLCs; man machine interfaces, GUIs PC based control room software; formulation and tank weighing; mono-rail weighing; control panels; liquid weighing and dosing; check weighing; carousel weighing.

About the company: Autosys Engineering (P) Ltd provides end-to-end plant automation and turnkey project execution in a variety of industries. Autosys combines its engineering expertise (mechanical, electrical, electronics, PLCs, SCADA, computers and software) with its deep domain knowledge to undertake fixed price contracts.

Contact:

Autosys Engineering (P) Ltd, Chennai
Mobile: 09840158512, 09381025462
Email: ael@ael-india.net

MELT PRESSURE TRANSDUCERS

Adinath Controls offers melt pressure transducers incorporated with a filled capillary design.

Features:

- This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at process temperatures up to 750°F.
- The electronics of each transducer are a Wheatstone bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.
- These transducers are available in two distinct styles; the CT style melt pressure transducer is the classic melt pressure transducer design.
- The CT style melt pressure transducer comprises a 6" rigid stem, along with 18" of flexible capillary, for optimal thermal isolation; the RT style melt pressure transducer, has only a 6" rigid stem, and is a rigid stem only version of the classic melt pressure transducer.

About the company: Athena Controls (India) Pvt Ltd manufactures auto tune PID temperature controllers, temp indicators, SCR power controllers and temperature sensors like thermocouples and RTDs.

Contact:

Adinath Controls (India) Pvt Ltd, Gandhinagar
Tel: 02764-286574. Email: mori@adinathcontrols.com

STAR DIP - PICKLING DIP LIQUID

Krystal Surface Solution offers a wide range of star dip - pickling dip liquid.

Features:

- Star dip comes in liquid form and is used in cleaning complicated and non-reachable areas of SS components such as external and internal of pipes, wire rolls, and internal recessed areas of machinery.
- Parts of heavy machineries are dipped in huge tanks using chain pulley or circulation system for de-scaling and cleaning of pipelines; star dip is circulated inside pipelines with the help of pumps; coverage per kg: approximately 40 sq ft.

About the company: Krystal Surface Solution specialises in superior quality pickling and passivation, pickling gel, pickling paste, stainless steel weld cleaner, stainless steel pickling gel, and stainless steel pickling paste, pickling passivation gel, SS pickling paste, electro polishing, metal pickling, and silicon free innovative welding product. The company renders complete metal treatment solutions, supply chemicals and equipment for safe in-house pickling and passivation for all kinds of job capacities.

Contact:

Krystal Surface Solution, Thane
Tel: 0250-6452107, 2450127, 2450106
Email: sales@krystalindia.com

WATER LEVEL CONTROLLER

Bombay Instrument Mfg Co offers a wide range of water level controllers.

Features:

- Used for controlling the level of water in various industries, these level controllers are durable, lightweight and resistant to wear and tear.
- Switches on the pump when the water in the overhead tank goes below the pre- decided minimum level; switches off the pump when the water level in the overhead tank reaches the maximum level therefore prevents overflow
- Switches off the pump when the water level reaches the minimum level in the underground and tank therefore prevents dry running; again switches on the pump when there is sufficient water in the underground tank
- Therefore no need to switch on or switch off the pump; no more overflow or dry run thus saving water electricity and manpower; manual switch for bypass

About the company: Bombay Instruments Mfg Co manufactures, exports & supplies industrial measuring instruments and is NABL accredited.

Contact:

Bombay Instrument Mfg Co, Mumbai
Mobile: 09821283776.
Email: bimcoindia@gmail.com

UV SENSOR FOR OIL/GAS FLAMES

Linear Systems provides a range of flame sensors for detecting oil and gas flames.

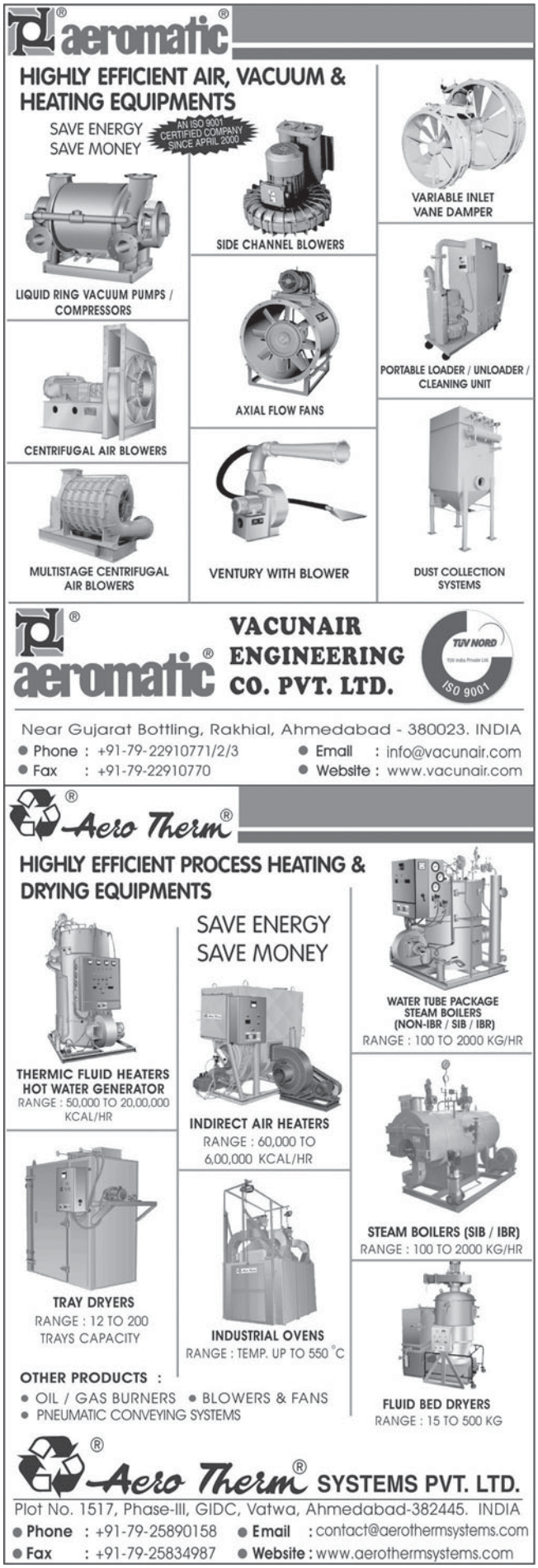
Features:

- Available with various viewing and mounting arrangements – Models UV-01, UV-71-AJ, UV-71-SC, etc.; designed to detect UV radiations emitted by a naked flame.
- These are immune to visible light and refractory glow from furnace walls; the company's designs include protective quartz glass cover, ¾" NPT and BSW mounting with optional air cooling.
- Also available a NW model self-checking UV sensor (UV-71-SC).

About the company: Established in 1986, Linear Systems is a manufacturer of oil burner controllers, gas burner controllers, burner sequence controllers, LDR flame sensor, LDR flame amplifier, UV flame sensor, UV flame amplifier, etc.

Contact:

Linear Systems, Mumbai
Tel: 022-25512534
Telefax: 022-25576002
Email: info@linearsystems.in



SELF-CLEANING FILTER

Russell Finex Sieves & Filters offers a wide range of self-cleaning Russell Eco filters.

Features:

- This industrial self-cleaning filter is ideal for high capacity filtration of high viscosity applications; the enclosed system ensures a contamination-free product while protecting the operator from dust and fumes.
- This liquid filter uses a unique SprioKlene wiper system which continuously cleans the filter element to provide optimum filtration efficiency, meaning there is no need to change filter bags or cartridges.
- Increases productivity - with a unique self-cleaning design, there are no stoppages to change filter elements, which ensures consistent throughput rates.
- Improves product quality; enclosed system ensures a contamination-free product.

About the company: Russell Finex specialises in sieving and filtration equipment suited to many processing industries such as pharmaceuticals, food, chemicals, metals, paint/coating, ceramics.

Contact:

Russell Finex Sieves & Filters Pvt Ltd, New Delhi
Mobile: 08800558656, 08800558687
Email: radhika.singh@russellfinex.com

INTERNAL GEAR PUMP

Gelasha Engineers offers fuel injection internal gear pumps.

Features:

- Manufactured from specially selected materials and processed to close tolerances for a long, trouble free working life; body and cover made of close grained, graded cast iron; gear and shaft alloy steel, heat treated.
- Fuel injection internal gear pumps arewidely used in boilers and oil burner hydraulic drives.
- Mechanical dynamic seal for high temperature and high speed use; bronze bush for low friction and long life; static 'O' ring sealing for zero leakage; self priming; built in pressure regulator; standard mounting dimensions; easy replacement.
- Used for boilers, oil burner hydraulic drive; pressure and transfer pump; booster pump for diesel locomotive; pump for force feed lubrication; pump for filtration.

About the company: Gelasha Engineers is a manufacturer, trader and supplier of a qualitative assortment of Kristec oil pumps, fuel injection pumps, rotary gear pumps, bitumen pumps, etc.

Contact:

Gelasha Engineers, Ahmedabad
Mobile: 09426368359, 09879818915
Email: gelashaengineers@yahoo.co.in

FFS BELTS

The Prolific offers a wide range of FFS belts.

Features:

- Using Bervina's unique technology, profiles and belts are moulded as one; this process provides very flexible profile design possibilities; profiles can be positioned extremely close; this technology gives exact profile spacing and form, strong profile shear strength.
- These belts are used in food-industry; they are moulded in their own tooling, separated from non-FDA production line, using high quality FDA-conforming approved PU compound; one-piece moulded profile belts are also available.
- It is often necessary to fabricate the teeth of the belt afterwards, e.g. in case of vacuum belts - besides the perforation, a groove must be cut along the belt.
- Fields of use: sausage industry; advantages: long life span, special construction for food industry, FDA compatibility, and cord: stainless steel.

About the company: The Prolific originally formed as a general supplier of all specialty items to all industries, and since 1989 it has become a specialty belt supplier.

Contact:

The Prolific, Kolkata
Tel: 033-22420486
Email: prolific@vsnl.com

SUBMERSIBLE PUMPS

Marigold Sales & Services deliver submersible pumps.

Features:

- Checked by quality personnel to ensure adherence with the industry laid norms and standards.
- Easy installation and removal, especially in deep bore-wells; reduced HP losses due to transmission; pumping system can be made fully automatic; requires very little space; noiseless running of the motor.
- Eliminates the need for elaborate foundations and pump house arrangements; suitable for sites where a pump house is not desired or cannot be built; no contamination of water by oil or grease.
- Can be installed in difficult sites in narrow curved or slanting bore-wells or in confined conditions; very sturdy motor, insensitive to voltage fluctuation, unlike normal electric motors; economy in operation due to high overall efficiency.

About the company: Marigold Sales & Services supplies and trades industrial pump, gland packing rope, trolley and castor wheel and grafoil packing ring. Under this range, the company offers submersible pumps, end suction coupled pumps, etc.

Contact:

Marigold Sales & Services, Ahmedabad
Mobile: 9904158767. Email: marigold_at_105@yahoo.com

PP PUMPS

Southern Thermal Engineering Company offers PP pumps.

Features:

- Based on advanced technology support that provides for flawless working support, the pumps come with a single piece injection moulded impeller and shaft thus avoiding possible damages to base shaft from acid fumes.
- Suitable for use in adverse working environment including presence of highly corrosive chemicals, its compact finish design also ensures easy handling and installation support.
- High performance based polypropylene pumps; suitable for transferring of corrosive chemicals, acids, alkalis; pumps based on advanced technology support that provides for flawless working support.
- Pumps come with single piece injection molded impeller and shaft thus avoiding possible damages to base shaft from acid fumes.

About the company: Southern Thermal Engineering Company makes an assortment of industrial furnaces.

Contact:

Southern Thermal Engineering Company, Chennai
Tel: 044-60503779, 64035359. Mobile: 09884935359
Email: info@southernthermal.net

AIR HEATER
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ROTARY GEAR PUMPS

C Bole & Co offers a wide range of positive displacement rotary gear pumps for handling oil and other semi viscous liquids.

Features:

- These pumps find applications for furnace oils, fuel oils, molasses, paints and pigments, castor oils, gasoline, inks, gums, sizing liquids, glue, polymers and other industrial applications; can be also used in applications like pressure feeding of fuel in burners, circulation of lube oils in gearboxes, turbines, fluid couplings, compressors, diesel engines, etc.
- Pumps can be supplied in SS 316, gun metal, bronze construction with heating/cooling jackets; pumps can be supplied with special mechanical seal, which prevents leakage near shaft end; the pump body is made of 2-piece type i.e., only one joint in the body which reduces the maintenance cost.
- It has easily replaceable bushes with positive lubrication arrangements; it has proved more efficient due to suction and delivery in the line with the rotors; for handling all kinds of oils and other similar corrosive viscous liquids, pumps are supplied in CIMS construction.

About the company: C Bole & Co offers wide range of seal-less magnetic drive monoblock, chemical process pumps which ensures 100% leak proof operation.

Contact:

C Bole & Co, Mumbai
Tel: 022-23424350, 23429641
Email: cboleco@yahoo.com, cboleco@hotmail.com

RUBBER LINED CENTRIFUGAL PUMPS

J K Pumps Sales & Services offers rubber lined centrifugal pumps.

Features:

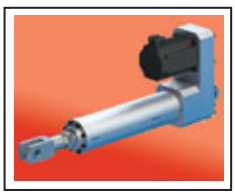
- These are available in a range of five models, developed with the main objective of attaining higher levels of corrosion resistant durability and interchangeability.
- These are simple in design, robust in nature and very reliable; less expensive than more exotic stainless steel and high alloy pumps for identical service conditions.
- Interchangeability of parts permits quick servicing of damaged parts in chemical plants and result in minimum spare part inventory.
- Simple external axial adjustment for impeller adjustment; standard dimensions cut layout design cost.

About the company: J K Pumps Sale & Services is engaged in the field of chemical and process industries for corrosion resistance, leakage free chemical process pumps.

Contact:

J K Pumps Sales & Services, Delhi
Mobile: 9711132398. Email: jkpumps3@gmail.com

ELECTROMECHANICAL ACTUATORS



Apex Precision Agencies offers electromechanical actuators.

Features:

- In electromagnetics, the air gap separates a stationary member & a moving member of the electromechanical actuators.
- The advantage of electrostatic is the higher switching rate and less energy loss; moves charged toner particles in electro photographic processes.
- Piezoelectric is the property of certain crystals that produces a voltage when subjected to mechanical deformation, or undergoes mechanical deformation when subjected to a voltage.
- The actuators are compact and cost effective; silent operation; control unit can be mounted to the actuator.

About the company: Apex Precision Agencies was established in the year 1990. Its product range includes linear motion guides, balls crews, roller screws and lead screws, linear guides and aluminium profiles used in various industries for automation.

Contact:

Apex Precision Agencies, Mumbai
Tel: 022-61464444, 25550900
Mobile: 09820040939
Email: sales@apexprecision.co.in

ANTI-SCALE COATING COMPOUND FOR HOT FORGING

Steel Plant Specialities offers ESPON-HF anti-scale coating compound which enables cost reduction and quality improvement in a forge shop.

Features:

- It protects steel against oxidation and scaling.
- It protects forging blanks even if they are to be retained in the reheating furnace for a longer time due to unexpected reasons like power failure or breakdown.
- It facilitates high-recovery while salvaging the rejected forgings by re-working where re-heating is involved.
- Shot blasting is easy and the rejections can be eliminated due to scale getting embedded into forged components. It improves the surface quality of the hot forged products and increases die life due to combined effect of scale prevention and specially developed lubricants. A number of leading forge shops have confirmed the benefits of ESPON-HF.

About the company: Steel Plant Specialities (SPS) manufactures coatings and lubricants for metal forming processes like hot forging, heat treatment, hot rolling, etc.

Contact:

Steel Plant Specialities, Mumbai
Tel: 022-6797 8060
Email: info@steelplantspecialities.com

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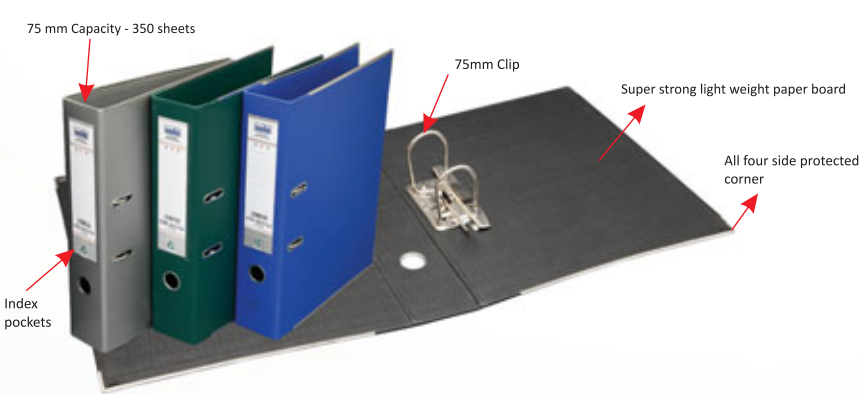

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LA 502, LA 512

World class quality lever arch file in both paper board & polymer sheet.
Imported paper board of light weight yet double strength.

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Red
Green
Grey
Black
Yellow
White

INDUSTRIAL SCREWS

Micro Metals is offering industrial screws which are designed and developed while taking into consideration the defined parameters of the industry.

Features:

- These are available in different sizes and specifications; stainless steel standards – Astm / Asme A/Sa 193 / 194; stainless steel grade – B 8 (304), B 8C (Ss 347), B 8M (Ss 316), B 8 T (Ss 321), A 2, A 4.
- Duplex steel standards – UNS No S 31803, S 32205; nickel alloy standards – Astm / Asme Sb 160 / 164 / 425 / 166 / 446 / 574 / 472.
- Nickel alloy grades – Uns 2200 (nickel 200) / Uns 2201 (nickel 201), Uns 4400 (monel 400), Uns 8825 (inconel 825), Uns 6600 (inconel 600) / Uns 6601 (inconel 601), Uns 6625 (inconel 625), Uns 10276 (hastelloy C 276), Uns 8020 (alloy 20 / 20 Cb 3).
- Alloy steel standards – Astm / Asme A/Sa 193 / 194 Gr; alloy steel grades – B 6, B 7/ B 7M, B 16, 2, 2Hm, 2H, Gr 6, B 7, B 7M.

About the company: Micro Metals is engaged in manufacturing, supplying and exporting a range of stainless steel black bars, bright bars, wire rods, etc.

Contact:
Micro Metals, Mumbai
Mobile: 09930772998. Email: info@micrometals.co.in

UNBALANCE WEIGHT MOTOR VIBRATORS

- **High Performance**
- **Maintenance Free**
- **Reliable**
- **Yet Cost Effective**

Mountings : Foot, Flange Wedge and Oscillating Base

PNEUMATIC BALL VIBRATORS

Beneficial features :

- Compact, simple and low cost.
- Easy to install, operate and maintenance free.
- Silent - less than 70 dB,
- Flameproof and intrinsically safe.
- Stepless and fingertip control to work near natural frequency.
- Suitable for warm and humid environments.
- Wide range of 8 models.

PNEUMATIC PISTON VIBRATORS

Types :
Single impacting.
Continuous impacting.
Air cushioned.

Eminently suited to :

- Boost material flow down bins hoppers/chutes/ducts etc.
- Dislodge material build-ups on walls of storage vessels, pneumatic conveying lines, cyclone separators, bag filter etc.
- Drive small screens, feeders, vibrating tables and vibratory devices.

Beneficial Features :

- Low cost.
- Compact and simple.
- Easy to install and operate.
- Maintenance free.
- Flameproof and intrinsically safe.
- Amenable to automation and remote control.
- Stepless and fingertip control of frequency and amplitude.

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Sinex

Sinex Primemovers
'Sinex House', Plot No. 127, Navghar Village,
VASAI East - 401 210, Near Mumbai on Western Rly.
Tele.: (0250) 239 3231, 239 1410.
Mobile: 09561467183
Email : sinexpm@gmail.com.
info@sinexvibratorsindia.com.

Dealer / Representation Enquiries Solicicated

INTERNAL LOCKING ASSEMBLY

Power Ace Engg Co offers premium quality internal locking assembly manufactured by TAS-Schafer, Germany.

Features:

- These are meant for highly stressed shaft-hub connections; it has a high degree of concentricity and easy removal by means of jacking screws.
- These assemblies are available in various standard ranges such as TAS-3003, TAS-3006, TAS-3012, TAS-3015 and TAS-3020, the difference in the higher ranges being larger flange of the internal bush, preventing axial movements of shaft and hub.
- Removal is simple as the cone angles prevent binding; the locking devices avoid backlash that is sometimes encountered with keyed connections; they allow generous tolerances on shafts and hubs.
- Benefits include: superior performance against reversing; dynamic and impact loading; ease of installation, assembly and disassembly; capable of transmitting high torques and axial loads; precise positioning and adjustments; and a wide variety of sizes and styles.
- The product quality is certified by EN ISO-9001: 2000 – Germany. This is a device which locks the shaft with the hub for further manufacturing activity.

About the company: Established in 1986, Power Ace Engineering Co., is a supplier of drive solutions. The company delivers engineering products like shaft locking devices and power transmission solutions including helical geared motors, precision planetary gearboxes, speed variators, shaft mounted reducer, etc.

Contact:

Power Ace Engg Co, Mumbai
Tel: 022-28205862, 56919028 Telefax: 022-28202478
Email: powerace@bom2.vsnl.net.in

GROUND BALL SCREWS

M M Huzeifa offers a wide range of ground ball screws.

Features:

- These screws are made through grinding process. On ground screws journal machining is performed prior to thread grinding which ensures precise concentricity with the ball thread.
- These products advantages are zero backlash, precision accuracy from C0 to C7. Low noise available in 9 mtrs in single length.

About the company: M M Huzeifa was established in 1973 in Mumbai. Today, the company has made a name for itself in the list of top suppliers of ball & roller bearings/bushes, rubber transmission belts in India.

Contact:

M M Huzeifa, Mumbai
Tel: 022-23423272, 23401096, 23461095
Fax: 022-23401096 Email: sales@mmhuzeifa.com

MECHANICAL POWER TRANSMISSION PRODUCTS

Albro Trading Company offers mechanical power transmission products.

Features:

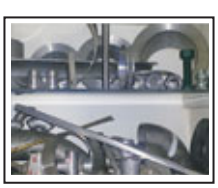
- These are available off the shelf as well as made to order according to given specifications and individual requirements as per sample in mild steel, cast iron, carbon steel, etc.
- Besides the usual range of mechanical power transmission equipment, the company has a complete range of various gears: hob cut spur, bevel spiral and helical gears, racks and pinions, ratchets and pawl, worm/worm wheels, etc.

About the company: Albro Trading Company is an authorised dealer for 'Diamond' super industrial roller chains and their genuine spares, connecting lock and half link, made by TIDC India, an ISO 9001 and ISO 14001 company. The company also provides helpful design assistance using exclusive gear design tables, simplified engineering tables and many money and energy saving ideas. As a one-stop-shop for all mechanical power transmission needs, the company has everything for mechanical power transmission under one roof.

Contact:

Albro Trading Company, Mumbai
Tel: 022-23424336. Email: albrotradingco@gmail.com

STAINLESS STEEL MATERIALS, GRADE 321



Pooja Steel & Alloys is offering stainless steel materials, 321 grade, in various shapes such as strips, sheets, pipes, tubes, etc.

Features:

- Type 321 is similar to SS 304, however, it contains a Titanium addition of at least five times the carbon content, this addition is made to reduce or eliminate chromium carbide precipitation – resulting from welding or exposure to high temperatures.
- Maximum stabilisation is accomplished by annealing between 1750°C and 1850°C; mainly used in aircraft exhaust stacks and manifolds, chemical processing equipment, welded equipment, jet engine parts, petrochemical and other fertilizer industries.
- Can be used for exhaust systems where operating temperatures are higher than 800°F and where corrosive conditions are not too serve, also because of its resistance to scaling and vibration fatigue.

About the company: Pooja Steel & Alloys is a dealer and importer of industrial raw materials. It also executes orders in all aspects of projects implementation, maintenance, modernisation etc.

Contact:

Pooja Steel & Alloys, Mumbai
Tel: 022-23872562.
Email: pseco93@gmail.com

CAPACITOR DISCHARGE WELD STUDS

Kalyani Sales Corporation offers a wide range of CD weld studs in MS copper coated as well as stainless steel (SS 304 / SS 316) materials.

Features:

- In capacitor discharge stud welding, the welding energy is obtained from banks of capacitors which have previously been charged to the voltage selected for the particular application.
- Energy is discharged through the stud itself, giving a high density current which disintegrates the small pip/projection on the base of the stud.
- This leaves an ionised gap between stud and work piece across which the welding current continues to flow, in the form of work piece, completing the weld.

About the company: Kalyani Sales Corporation provides every kind of industrial fastener and especially fasteners for thin sheet metal fabrication. Its range of industrial fastener includes metal fasteners, nuts fasteners, blind rivets and threaded brass inserts.

Contact:

Kalyani Sales Corporation, Kolhapur
Tel: 0231-2630143
Mobile: 09960550053
Email: kalyanisalescorp@bsnl.in

Twin/Tri Lobe Roots Blower

Applications

- Pneumatic Conveying System
- Central Vacuum Cleaning System
- Charging of Kilns in Cement and Steel Plants
- Aeration in Effluent/Water/Sewage Treatment Plants
- Aeration in Storage silos
- Blending
- Air Drying
- Aquaculture

Features

- Capacities from 20 CMH to 20000 CMH
- Pressures upto1000 mbar
- Positive displacement type
- Designed for continuous duty
- Vibration free running
- Accurate torque transmission

Other Products

- Cement/Fly Ash Feeding Systems
- Dust Collection Systems
- Pneumatic Conveying Systems
- Mechanical Vacuum Boosters
- Gas Boosters
- Dust Collection Systems
- Oil Sealed Vacuum Pumps
- Liquid Ring Vacuum Pumps

A FEW CUSTOMERS

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Zydus dedicated to life
PETRONAS
सेल SAIL स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड STEEL AUTHORITY OF INDIA LIMITED
Reliance Industries Limited
ADITYA BIRLA GROUP
इंडियनऑयल Indian Oil
इसरो ISRO
बी एच ई एल BHEL
नालको NALCO National Aluminium Company Limited

ACME AIR EQUIPMENTS CO. PVT. LTD.

Plot No. 57/3, 4, 5, 'B'-Road, Phase-1, G.I.D.C,
Vatva, Ahmedabad-382445 Gujarat, India
Phone : +91-79-25831985, 25835995, 40265999
Fax : +91-79-25832336, E-mail : info@airequipments.com
Website : www.airequipments.com, www.airequipments.in,
www.acmeairequipments.com

BALL TRANSFER UNITS

HVD Distributors offers ball transfer units manufactured by Alwayse Engineering, a UK-based company.

Features:

- These have become an integral part of the material handling industry. Alwayse ball transfer units are used in industries throughout the world.
- There are many possible applications for Alwayse ball transfer units. Loads need to be moved smoothly, precisely and with minimum effort.
- Some typical applications include cargo and baggage handling, assembly lines, as a castor, machine loading, sliding door systems, machine tables, etc.

About the company: HVD Distributors Pvt Ltd offers ball transfer units manufactured by Alwayse Engineering, a UK-based company established in 1939, and credited as the originator of this product. They cater to the domestic as well international market, in particular to the applications of turntables, robotics, man-lifts, material handling M/N's, cranes and excavators, machine tools, oil and gas and general engineering.

Contact:

HVD Distributors Pvt Ltd, Mumbai
Tel: 022-66655000, 23444236/37
Fax: 022-66555055
Email sales@hvdmails.com

LEVEL SWITCH, INSERSTAT

R K Dutt Concerns offers a wide range of level switch, Inserstat.

Features:

- Inserstat, a state-of-the-art multipoint level switch, offers some unique features for the first time in India.
- Inserstat level controller comprises of a doughnut type annular magnetic float, guided inside the tank by top entry blind dip pipe; as the level changes, the float moves over the blind dip pipe; switching cartridges with their leads (wires) are mounted on epoxy PCB strip graduated in centimetres.
- As the float passes the sensing cartridge positioned at set point, the contact changes and remains changed (latched) so long as the float is beyond the set point; when the float returns to normal, the contact also reverts to normal.
- Leads of each cartridge are terminated in a weatherproof terminal box at top of the blind pipe; total freedom from corrosion, single float – multipoint operation, no moving parts and stepless adjustment.

About the company: R K Dutt Concerns is a manufacturer of level, pressure and flow indicators and channel partner of Siemens Process Instruments.

Contact:

R K Dutt Concerns, Thane
Tel: 022-67248787. Email pisales@rkdutt.com

HYDRAULIC AERIAL ACCESS WORK PLATFORMS

Shalimar Engineering Company offers Mac-Lifton hydraulic aerial access work platforms.

Features:

- These access work platforms are the ultimate machines for overhead maintenance work, and can be used for maintenance of street lights, aircraft and also for tree trimming.
- They can be fitted on to standard commercial vehicles. Power is taken from the truck power take-off unit or from a separate prime mover. The boom system consists of two rectangular box sections.
- The lower boom is connected to the rotating column. The rotating column consists of heavy-duty bearings. 360 degrees continuous slewing is provided for quickly positioning the work basket. The slewing mechanism consists of a hydro motor fitted on to a worm reduction unit. Parallel links take care of basket levelling.
- These independent links ensure that the basket is always level. All cylinders are internally hard-chrome plated for long seal life. The cylinders are double acting and have seal of a very high quality. All cylinders are provided with valves which prevent it from coming down in the event of hose failure.
- These valves also prevent runaway situations when the boom movements tend to overrun the pump. The boom travel is limited to safe limits any operation beyond these limits will automatically cut off further movement. Duplicated controls are provided as a standard feature. Boom operations can be made either from the basket or from the base. Separate valves are provided for stabilisers with boom inter locks.
- The basket is made from tubular sections for extra strength and it insulated to withstand 3 kVA. The basket controls are protected against unintentional operation.

About the company: Shalimar Engineering Company, founded in 1973, manufactures Mac-Lifton brand of material handling equipment since. Mac-Lifton brand of material handling equipment are widely used across industries such as chemical and pharmaceutical industries, machine tools, tractor industries, electrical and electronic industries, steel and engineering industries, packaging and glass industries, defence sector, aeronautics and space research, rubber and cable industries, mining industries, municipal corporations, etc.

Contact:

Shalimar Engineering Co, Mumbai
Tel: 022-24221309, 24312141
Mobile: 09820060700
Email: shalimarenggco@gmail.com, ashwin@maclifton.com

HIGH TENSILE FASTENERS

Katariya Steel Distributors offers quality range of high tensile fasteners.

Features:

- These high tensile fasteners are made from very high quality raw material which ensures high durability at its user end.
- .Grade – ASTM A 193 GR B6, B7, B7M, B16, ASTM A 193 GR 2H, 2HM, IS (GR.6, 6.8, 6.9, 8.8, 10.9, 12.9,) BS (GR. R, S, T) ASTM A320
- Form – stud bolts, hex head bolts, anchor bolts, U-bolts, J bolts, mushroom head structural bolts, square nut, self locking nut, hexagon domed cap nuts, spring washer, heavy duty washer, socket head allen cap screws, threaded rod (stud), split pin, etc.
- Make – GKW, Unbrako, Kundan, APL, SPL, Sundaram Precision & EBY fastener; range – M10 to M100 and length from 15 mm to 5 mtrs long; test certificate – MTC, TC from government approved laboratory under third party inspection.

About the company: Katariya Steel Distributors is manufacturing, exporting, supplying, distributing, importing, servicing and trading pipes, fittings, flanges, sheets and plates, fasteners, and other steel products.

Contact:

Katariya Steel Distributors, Mumbai
Mobile: 09833405433. Email: sales@katariyasteel.com

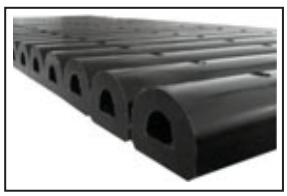
AVLOCK INDIA

Avlock International India Pvt.Ltd.
Plot No. A165/166, Road No. 27,
Wagle Industrial Estate,
Thane : 400 604, India.

Tel. : +91 - 22 - 25823404
Fax. : +91 - 22 - 66345622
Email : info@avlock.co.in
Website : www.avlock.co.in

ENGINEERED HARDWARE, SEALING TECHNOLOGY & FASTENING SYSTEMS

D-TYPE RUBBER FENDERS



Kiran Rubber Industries offers a wide range of D-type rubber fenders.

Features:

- D-type rubber fenders can be used widely as the hanged equipment of defending dash for all kinds of shipping, ports and docks.
- They can absorb sufficiently the energy when was dashed to the maximum to ensure the integrity and steadiness of all kinds of the shipping and docks.
- Excellent chemical and physical properties, excellent oil, high/low temperature resistance, wearing-resistant, oil-resistant, dust-resistant; with reasonable reaction it may absorb more energy than of cylindric type; convenient in installing.
- It is usually used for docks of frame work type and ships due to the small size of its bottom width; also used for railcars, automobile, industrial electrical equipment, building door and window, etc.

About the company: Kiran Rubber Industries Pvt Ltd is a manufacturer and exporter of moulded and extruded rubber products. Manufactured using latest technology, these products are efficient in performance and highly durable. These products are in accordance with ISO standards, regardless that they are not ISO certified yet.

Contact:

Kiran Rubber Industries, Mumbai
Mobile: 09769633732. Email: info@kiranrubber.com

HEAT SEALING MACHINE

St. Joseph Engineering Works offers a wide range of heat sealing machine.

Features:

- Easy location of plastic container underneath the heating pad; effortless compression spring pressing device/lever during the heating and sealing operation; easily operated sealing pad, it doesn't require any adjustments for different sizes of plastic containers.
- The heating pad can be easily altered to suit size of plastic containers; thermos-tat to adjust according to the thickness of plastic plug/diaphragm; maintenance is very simple.
- The operation of the machine is simple as it does not require special skills; on keeping the plastic container on the base plate/platform, the container along with the plug/diaphragm is pressed against the heating pad by the action of compression spring lever/handle.
- Any heat transfer paper i.e. butter paper/cellophone paper/teflon cloth is first placed on the plastic plug/ diaphragm to ensure even heat-sealing of the same.

About the company: St. Joseph Engineering Works is an exporter, supplier and manufacturer of automatic oil filling machines, packaging machinery, semi automatic filling machines, tin sealing machines, etc.

Contact:

St. Joseph Engineering Works, Mumbai
Mobile: 09819849926. Email: philiprebeiro@yahoo.co.in

HONEY COMB BELT STRIP CONVEYING SYSTEM

Wiperdrive Engineering offers honey comb belt strip conveying system.

Features:

- This can accommodate widths up to 2000 mm and lengths over 25 mtr.
- The system is available in SS 304, SS 316, SS 202, MS galvanised with safety torque limiter.
- These are used for conveying of products, parts, components and assemblies in heating, washing, packing processes under hygienic conditions and various other efficient methods of conveying.

About the company: For over 80 years, the Wiperdrive Group is engaged in the business of material handling systems, power transmission products, aviation ground support equipment, storage and racking solution, high-end technology products and project management. The company has a complete team of specialised engineers from hydraulics, pneumatic, electrical and electronics sector with 21 liaison offices in India.

Contact:

Wiperdrive Engineering, Mumbai
Tel: 022-22844307, 22871995
Fax: 022-22873597
Email: info@wiperdrive.com

SHEET STAMPING PRESSES

Marvel Machine Tools Pvt Ltd offers a wide range of sheet stamping presses.

Features:

- The product featured is a 300 tonnes capacity straight side double crank press of SATO Japan make. Machine is in excellent condition.
- These products technical specifications are: SSDC press model-DCP-300; Cap – 300 T; stroke – 350 mm; bolster area - 2150x1180mm; slide area-2000 x 1070 mm; die Ht – 600 mm; adjustment – 200 mm; SPM-22 with die cushion.

About the company: Marvel Machine Tools Pvt Ltd offers good quality sophisticated pre-owned CNC & conventional metalworking & sheet metal machine tools such as press lines, C & H frame presses, high speed presses, hot forging presses, trimming presses, knuckle joint presses, vertical & horizontal machining centres, turning centres, drill-tap centres, vertical & horizontal borers, vertical & horiztonal lathes, milling, machines, etc.

Contact:

Marvel Machine Tools Pvt Ltd, Mumbai 400 001
Tel: 022-22657481–82
Email: info@marvelmachinery.com

ALLEN BOLTS

Pee Vee Enterprises provides high quality allen bolts.

Features:

- Designed to meet challenging fastening applications in a variety of industries such as construction, automotive, and product manufacturing.
- Allen bolts are noted for their accurate dimensions; experts have made these using best components and advanced technology.
- Robust construction, exceptional finish standards, resistance to abrasion, ease of use and highly durable service life.
- Sturdy; free from flaws; quality approved.

About the company: Founded in the year 1979, Pee Vee Enterprises is a wholesaler, trader and manufacturer firm providing an extensive range of industrial fasteners. The company also provides an industry approved range of powercoil thread repair kit tools, helicoil thread repairing and thread repairing inserts. The company adheres to acute professionalism, strong technological background, timely awareness and adherence to strict quality control measures.

Contact:
Pee Vee Enterprises, Delhi
Mobile: 09811150326.
Email: pvent11@gmail.com

STAINLESS STEEL BOLTS

Citizen Metals offers stainless steel bolts.

Features:

- The product range is known for its compact design and less maintenances; the range has unique attributes such as durability, high tensile strength, rust resistance and sturdy construction.
- The offered ranges of stainless steel bolts are resistant to rust and designed as per the convenience of the user.
- They are highly appreciated among our clients for their superior performance; affordable prices, robust construction, easy to use.

About the company: Citizen Metal Depot was established in the year 1981. It is engaged in manufacture, supply and export a wide range of industrial products. The huge assortment of products offered includes stainless steel, carbon steel and alloy steel products. These products are manufactured using stainless steel, carbon steel and alloy steel, sourced from reliable vendors.

Contact:
Citizen Metals Pvt Ltd, Mumbai
Tel: 022-61905600.
Mobile: 09819448843
Email: exports@citizenmetals.com

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Avcon is come up with new Butterfly Valves. Available in Series '22' Design.

Size :
From 35mm to 600mm.
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✦Line Pressure range Upto 16 bar, Suitable for Water, Air, Oil, Gas.

Specially used for :
Water Treatment Plant, Sewage Water, Air, Drinking Water, Various types of Gas , Low Pressure Steam.

Tight Shutoff Damper type Butterfly Valves size upto 2000mm

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ISO 9001:2015

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Tel.No.+91 22 2834 9134, 2836 6298 Fax. +91 22 2821 6917/ 3298.

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Creative Concepts

Butterfly Valves Ad9/12-2018

AXIAL FLOW FANS

Vacunair Engineering Co. offers high efficiency axial flow fans.

Features:

- High efficiency can be achieved due to wide selection of sizes, hub ratio, number of blades and pitch angle; direct drive or vee belt drive; motor are standard foot mounted of desired degree of protection.
- The fan can be run series for higher pressure and in parallel for higher capacity; bifurcated fan design for handling high temperature and corrosive gases; housing is made of steel sheet with angle or flat iron flanges.
- Motor or bearing stand is welded to the housing; rotor is of aerofoil profile made from cast aluminium alloy; hub is cast aluminium alloy.
- Blades can be adjusted when at rest; shaft is of EN-8 steel; bearings are ball or roller bearings for longer life.

About the company: Vacunair Engineering Co. Pvt Ltd designs, engineers, manufactures and provides service of industrial equipment. These products include compressors, vacuum pumps, blowers, pneumatic conveying system, burners, heaters for process and other types of waste heat applications. These products find applications in petroleum, gas, pharmaceutical, chemical, processing and power generation industries.

Contact:

Vacunair Engineering Co. Pvt Ltd, Ahmedabad
Mobile: 09904003010. Email: info@vacunair.com

GEAR PUMPS

Fluid Tech Systems, offers 'Rotofluid' brand Gear Pumps, Model FTRN/ FTRB/FTRX.

Features:

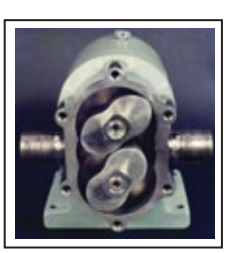
- These are heavy-duty foot mounting type positive displacement rotary twin gear pumps, having three-piece construction, and hence easy to clean and maintain; these pumps have a double helical refined gear and hardened, ground finished shaft.
- The double helical gear prevents axial load and side thrust, which is help to increase life and performance of pump; these pumps have flanges at the end of suction and delivery, which are available in 1/2" to 6" size; these pumps can be operated up to pressure of 10 kg/cm^2 with 8.30 LPM to 2083.00 LPM flow capacity.
- They are suitable for liquid up to viscosity of 1,00,000 SSU and maximum temperature up to 200°C; models available are: model FTRN/FTRB, model FTRX, model FTRBJ.
- Heavy-duty gear pump design for continuous application; herringbone rotor design eliminate side thrust; modified tooth profile enhances tooth life; floating gear design ensures uniform load distribution; optionally steam jacket available.

About the company: Fluid Tech Systems exports and manufactures a industrial gear pumps.

Contact:

Fluid Tech Systems, Ahmedabad
Mobile: 09879057200. Email: info@rotofluidpumps.com

TWIN LOBE PUMP



Master Seals Engineering offers a wide range of twin lobe pumps.

Features:

- These pumps are designed to meet the specific demands of cosmetic, pharmaceutical and food industry.
- Driven by hardened and ground gears profiles of the lobes are designed to deliver capacities without metallic inclusions.
- The casing & lobes are highly polished and the pump equipped with sturdy seals has smooth & noiseless rotation.
- This is very easy to maintain & run. The pumps have choice of lobe profiles to meet the demanding applications of the industry.

About the company: Master Seals Engineering has built a strong customer base through its specialisation in design and manufacture of wide variety of Industrial Pumps. Master Seals pumps are manufactured precisely to satisfy customers' varied requirements.

Contact:

Master Seals Engineering , Mumbai
Tel: 022-25960173/74. Email: msepumps@gmail.com

TRAY DRYER

Aero Therm Systems offers a wide range of tray dryer.

Features:

- The cabinet of the dryer is made from MS angle frame of double wall construction; The structure is made out of 65 x 65 x 6 mm thick MS angle, inside lining in SS 316 / SS 304 or aluminium sheet or FRP is available at an option.
- Aero Therm indirect fired hot air generators have been proved most economical and cost effective with faster drying and increased production with our dryers.
- The three pass hot air generators are fitted with our fully automatic oil/gas burners; liquid fuel can be LDO/HSD or furnace oil.

About the company: The Aero Therm is a quality company and has manufacturing facilities for air handling equipments like blower, axial flow fan, oil firing equipments like burner, oil pre heater, filter, etc.

Contact:

Aero Therm Systems Pvt Ltd, Ahmedabad 382 445
Tel: 079-25890158. Fax: 079-25834987.
Email: vadherad1@sancharnet.in

MS BOLT FASTENERS

Canco Fasteners is providing a range of MS bolt fasteners.

Features:

- These offered products are manufactured by using supreme quality raw material and modern machines.
- Material – carbon steel 4.8, 5.8, 6.8, 8.8 grade are all available.
- Finish – yellow/blue/white zinc plated, hot dip galvanised; stainless steel, grade 304, 316.
- DIN size – M6-M24; UNF/BSW size – 1/4"-1; bolt length made of carbon steel – From 40 mm to 300 mm.
- Bolt length made of stainless steel – from 40 mm to 400 mm.

About the company: Established in the year of 1987, Canco Fasteners is a manufacturer and exporter of heavy duty anchors, general fixing anchors, light fixing anchors, self drill anchors, pipe clamp, industrial safety products, packaging materials, etc.

Contact:

Canco Fasteners, New Delhi
Tel: 011-42525500
Mobile: 09811063537, 09811315315
Email: canco@vsnl.com,
info@cancofasteners.com

LEVEL UPS, GT CHALLENGER SERIES

Best Power Equipments (I) Pvt Ltd offers a wide range of Level UPS, GT Challenger Series.

Features:

- True three level rectifier and inverter technology; output power factor 1; on line-double conversion technology (Class VFI-SS-111); IGBT PWM rectifier and inverter technology; DSP control; ultra high efficiency up to 96.5 per cent; low input current THDi (<3 per cent).
- High input power factor (>0.99); dual input; optional DC/DC charger/booster; wide input voltage range (optional); advance battery management; short circuit and overload protection; paralellable modules up to 8 units; 500 real time event log with detailed parameters.
- Static and manual bypass operation; small footprint and easy maintenance; advance communication capabilities; perfect generator compatibility; strategic power.

About the company: BPE provides power solutions for IT, industrial and critical equipment, telecom, data centers and electro-medical gadgets.

Contact:

Best Power Equipments (I) Pvt Ltd, Noida
Mobile: 093119-95859. Email: sales@bpee.com

HIGH FINES RECOVERY DUAL SAND WASHERS

Nesans Mining and Automation offers premium range sand washers with high fines recovery for aggregates and other mineral processing industries.

Features:

- Underflow rubber lined slurry pumps; Rubber lined hydrocyclones; self-regulating cyclone tank.
- High frequency dewatering screen fitted with polyurethane modular mats; maximum recovery of material above 75μm (200 mesh).
- Removes silt, slimes and clays below 75μm (200 mesh); removes water following dewatering operation to 10–15 per cent of residual water content.
- Major reduction in saleable material discharging to the pond, thus reducing pond maintenance; heavy-duty robust construction ideal for rugged operating environments.
- Low maintenance; all wear areas rubber lined; walkway and access ladder; quick assembly time.

About the company: Nesans Mining and Automation Pvt Ltd is an aggregates processing, segregation, classification and automated control technology and services supplier.

Contact:

Nesans Mining And Automation Pvt Ltd, Coimbatore
Mobile: 09578799700. Email: info@thenesans.com

BALL VIBRATORS, PNEUMATIC

Sinex Primemovers has developed 'Sinex' pneumatic ball vibrators, essentially an ingenious version of the well known 'peristaltic' pumps.

Features:

- These are used for unlocking bottles, cans, caps and similar objects on or in their conveyors, tracks and feed cages; vibrating funnels to hasten material transfer in to narrow necked pharma and cosmetic containers; dislodging sticking/clinging material, a necessity in weigh hoppers and packing machines.
- Imparting vibrations to moulds and containers for material compaction densification and settling; aiding gravity to promote material flow down the feed chutes, ducts, small bins and hoppers; driving small screens, feeders, vibratory testing and material settling.
- Inexpensive and maintenance free device; compact and light weight for ease of handling and installation; silent among competing devices in the price range.
- Unaffected by dirt, dusty surroundings, splashing water and certain chemical environments; suitable for steamy and warm surroundings up to 90 °C temperature; hermetically sealed to suit hazard areas.
- Facilitates fingertip control of vibration frequency and amplitude – a great feature to work close to resonance condition for best results at minimal power consumption.

About the company: Sinex Primemovers is active in the filed of pneumatic vibrators.

Contact:

Sinex Primemovers, Vasai
Mobile: 09702882776. Email: sinexpm@gmail.com

LIBRATHERM THYRISTOR SWITCH MODULE

Libratherm Instruments offers a wide range of libratherm thyristor switch module(LTSM) for capacitor bank.

Features:

- Solid state noise less capacitor switching; available for 5,10,15,25,50 and 100 kVAR
- LED indications for switching, fault and over temperature status
- Protected against voltage transients; accepts digital and contact commands from APFC module
- Works on Auxiliary on 12 or 24VDC supply; compact, rugged and field proven design; natural/forced air cooled.

About the company: Libratherm has been engaged since 1991 in manufacturing various thyristor based power regulators and power switches for resistive, inductive and capacitive loads.

Contact:

Libratherm Instruments Pvt Ltd, Mumbai
Tel: 022-42555333. Mobile: 09870011544.
Email: sales@libratherm.com

SELF DRILLING SCREW, DOUBLE THREADED TYPE

Bharat Industrial Supplier offers quality approved double threaded self drilling screw.

Features:

- The offered product is ideal for the use in thin metal applications such as roofing, where they can be used to fix cement, asbestos and fiber cladding sheets.
- Offering high degree of resistance to water, dust and high temperatures, these products are highly demanded.
- Dimensional accuracy; easy to use; corrosion resistant.

About the company: Established in the year 1976, Bharat Industrial Supplier is a manufacturer, supplier, distributor, exporter, trader, wholesaler and retailer of fasteners. Being an ISO 9001:2008 firm, company provides best quality steel fasteners, metal fasteners and industrial fasteners. These products are using finest grade raw material and latest technology. In addition to this the company also provides quality based industrial fabrication services.

Contact:

Bharat Industrial Supplier, Chennai
Tel: 044-42157776.
Mobile: 07200058312, 08148058312
Email: info@bharatindustrialsupplier.com

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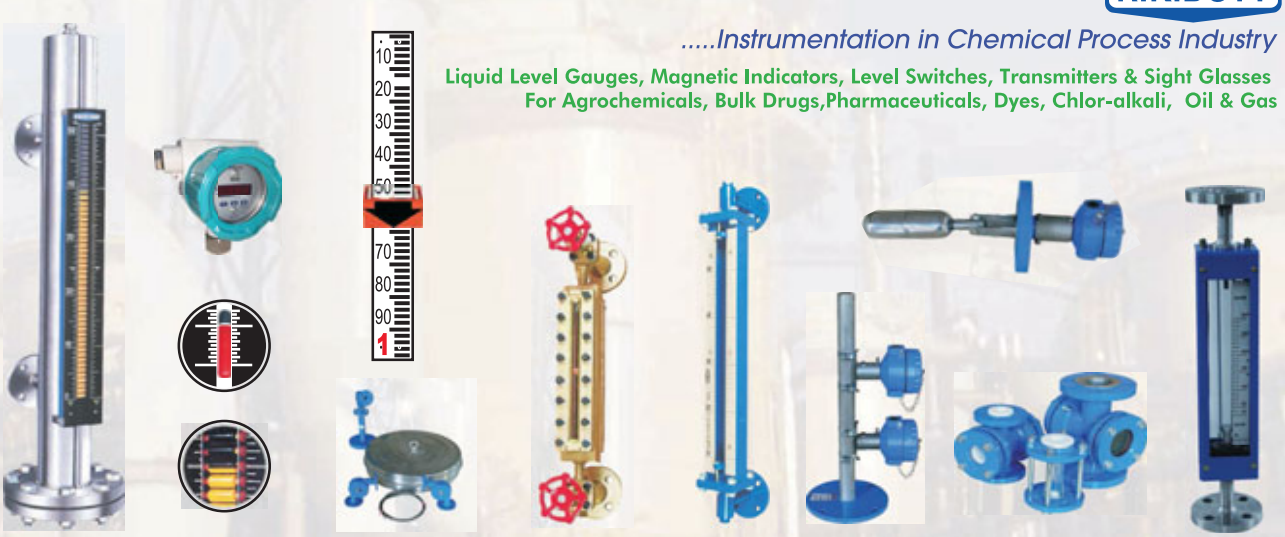

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Email: pisales@rkdutt.com / marketing@rkdutt.com

Website : www.rkdutt.com

RUBBER PRODUCTS

Moulik Rubber Industries offers high quality rubber items for electrical control and switchgear products.

Features:

- Its precision products like O-rings, seals, diaphragms and gaskets manufactured from high quality synthetic rubber like Viton, Silicone, Nitrile, EPDM and others.
- Food grade silicone products like T/C and body gaskets, envelope (c-type) gaskets, flat and round filter gaskets, silicone o-rings and washers.
- Effective sealing from water, oil, chemicals and other high/low pressure fluids with good flexibility and Temperature/abrasion resistance.
- Customisation to desired designs and sizes in required material and hardness.

About the company: Moulik Rubber Industries, established in 1990, are one of the leading manufacturers of high quality moulded and extruded rubber products. Being an ISO 9001:2015 certified company, they maintain strict quality control throughout the manufacturing process and provide excellent service for complete customer satisfaction. Right from electrical, mechanical, chemical to pharmaceutical, they are catering to various sectors of industries with utmost precision and accuracy.

Contact:
Moulik Rubber Industries, Mumbai
Mobile: 09820444582. Email: moulikrubber@gmail.com

INDUSTRIAL LIGHTS

Illuminato Lighting Technologies offers a wide range of industrial lights.

Features:

- Bay luminaire is a special purpose, energy efficient luminaires for medium/high bay lighting to meet industrial requirements. LM 80 certified LED chips are used to ensure high performance.
- It can be installed on the existing grid. There is no need to open the luminaire for installation or servicing.
- Features of Low Bay lights include wattage of 140W to 210W and dimension of 350 x 320 mm.
- These are high-quality lights with minimal loss and no glare.
- These products are energy efficient up to 130 lm/W. They reduce CO2 emissions and maintenance costs.
- Industrial lights have functional specifications such as overheating protection; power reduction; time-dependent luminous flux control; and constant luminous flux – CLO.

About the company: Illuminato Lighting Technologies provides a wide range of energy efficient industrial lights like Low Bay, Batten, etc.

Contact:
Illuminato Lighting Technologies, Coimbatore
Tel: 0422-2531642 Mobile: 08870440880
Email: info@illuminato.co.in

U BOLT

Excel Metal & Engg Industries offers a wide range of U-bolts.

Features:

- These are manufactured using premium quality raw material and can be availed with extra long nuts and in full round, half round and square profiles as per the request.
- Attributes include optimum quality, wear-tear resistance and corrosion resistance.
- Accurate dimension; corrosion resistance; high efficiency; high tensile strength; durability.

About the company: Excel Metal & Engg Industries was established in the year 1996. Since then the company is engaged in manufacturing, distributing, supplying, exporting and trading of quality products. The complete assortment of products consists of stainless steel pipes and tubes, stainless steel buttweld fitting, stainless steel forged fitting, stainless steel flanges, stainless steel wires, etc.

Contact:
Excel Metal & Engg Industries, Mumbai
Tel: 022-23892476, 66394004
Mobile: 09819459755, 09930005444
Email: iffnkc@ymail.com

STAINLESS STEEL DOME NUTS

Aanuraj Industries offers stainless steel dome nuts.

Features:

- Stainless steel is one of the most common materials used for fasteners due to its stability, strength and anti-corrosive and high heat properties.
- Its combination of the strength of steel with its superior anti-corrosion and heat-resistance properties result in a versatile, economic alloy.
- Stainless steel dome nuts is available in three main grades austenitic (300 series), martensitic and duplex.
- The 300 series of stainless steel is the most common and is used for sanitary applications due to its ease of cleaning and corrosion resistance.

About the company: Known for manufacturing and exporting a wide range of optimum quality industrial fasteners, Aanuraj Industries was set up in the year 2004. Offered industrial fastener range consists of hastelloy bolts, stainless steel fasteners, foundation bolts, etc.

Contact:
Aanuraj Industries, Vasai
Mobile: 09322106802, 09022702227
Email: aanuraj@gmail.com

SS HEX HEAD BOLTS

Trychem Metal And Alloys offers SS hex head bolt.

Features:

- Made of high grade steel, these products have a sturdy and strong construction; acknowledged for their resistance against corrosion and high durability.
- AISI grades 202, 304 and 316 are the more commonly used material grades; stainless steel of grade 202 contains nickel of 5% and chromium of 18% and is the cheapest of the three grades.
- Stainless steel of grade 304 contains nickel of 8% and chromium of 18% and is the most commonly used grade for the production of fasteners.
- Grade 316 contains nickel of 10% and chromium of 16% added with 2% molybdenum which gives the metal very high anti corrosive properties.

About the company: Since its inception in 2015, the manufacturing and supplying company 'Trychem Metal And Alloys', provides optimum quality stainless steel products.

Contact:

Trychem Metal And Alloys, Mumbai
Tel: 022-66595547
Mobile: 09833746609
Email: info@trychemfittings.com

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FIRE SEALANT

Join Leader Chemtech offers Joinsil 119 fire-resistant silicone sealant.

Features:

- It is a fire-resistant and weatherproofing product; it has excellent adhesion to porous and non-porous substrates used in the construction industry.
- High performance fire rated silicone sealant for fire sealing applications up to 40mm wide; neutral curing fire rated silicone sealant with excellent weather ability, flexibility and being odorless.
- Primer less silicone sealant offering a 4-hour fire rating to BS476 part 20 and 22
- It is designed for fire protection sealing of building facades, expansion joints, door frames and blockwork walls, etc.

About the company: Join Leader Group a manufacturer and marketer of quality adhesives and sealants, has been dedicated to the research and development of various functions and applications in adhesives.

Contact:

Join Leader Chemtech Pvt Ltd, Delhi
Tel: 011-22165640
Mobile: 09311145624
Email: sales@joinleader.in

ANTI-SEIZE COMPOUND

Universal Adhesives are instrumental in bringing a portfolio of anti-seize compound.

Features:

- It is used as a lubricant in gears, chains, cables, sprockets, rollers and hinges of machines and equipments; it eliminates galling and cold welding of threaded assemblies and prevents seizing corrosion in press fitted assemblies and fasteners.
- This compound is formulated with the help of supreme quality chemical compounds and advanced processing techniques in compliance with set industry standards.
- Anabond's anti-seize compound prevents seizure in bolts and nuts, studs due to extreme temperature in any object; anti-seize compounds are used as a lubricant in gears, chains, cables, sprockets, rollers and hinges of machines and equipment.

About the company: Universal Adhesives is a distributor and supplier of highly effective array of anaerobics product, RTV silicone, non curing rubber, acrylic sealant, lubricants product, industrial cleaner, polysulphide sealant, etc.

Contact:

Universal Adhesives, Ahmedabad
Tel: 079-26562948. Mobile: 09898598145.
Email: uniadhesive@satyam.net.in

PU SEALANT

Tuff-Bond Industrial Adhesives is offering PU sealants.

Features:

- These are quick setting, moisture cured, one part general purpose engineering and construction sealant.
- The offered sealants find their wide application in marine, automotive, engineering and construction industries.
- Application: sealing joints in concrete walls and floors; sealing and bonding fiber glass panels; bus and truck body panel construction; marine bedding of deck fittings; structural bonding and vibration damping.

About the company: Established in the year, 2001, Tuff-Bond Industrial Adhesives Pvt Ltd, is engaged in manufacturing and supplying adhesives. Manufactured using superior quality raw material, the range is designed in accordance with prevailing industry standards. These products are comprehensively demanded in plumbing and construction industries for various purposes like fixing pipe fittings, valves, fasteners and hoses.

Contact:

Tuff-Bond Industrial Adhesives Pvt Ltd, Mumbai
Tel: 022-24320839
Mobile: 09322260469
Email: apexinh@bomb5.vsnl.net.in

DOUBLE SIDED ADHESIVE TAPES

Prompt Packways offers double sided adhesive tapes.

Features:

- These tapes are manufactured in accordance with the industry laid parameters at vendor base and thus, are used in architectural cladding and packing of products.
- These tapes are highly adhesive and can be purchased at reasonable rates. Used for binding two surfaces such as paper, wood, metals and other products. Easy to use; water proof; excellent anti static property; longer service life, abrasion and corrosion resistance, robust construction and less maintenance.

About the company: Established in the year 2009, 'Prompt Packways', is engaged in distributing, wholesaling, trading and supplying a comprehensive collection of industrial packaging machines, tools and consumables. The products range include material handling equipments, packaging machines and pouches machine. These products are known for their self adhesiveness, moisture resistance and high tensile strength.

Contact:

Prompt Packways, Faridabad
Tel: 0129-4029769
Mobile: 09711179769
Email: promptpack@ymail.com

GASKET SEALANTS

Hitlock Adhesives offers a wide range of gasket sealants.

Features:

- Slow-curing connections are possible, as is high-strength or highly flexible anaerobic gasketing.
- Single-component; fills all voids – no fine surface finish needed; no shimming – no need for re-torquing; permits disassembly.
- Benefits are fast cure and high strength that eliminates flange re-tightening; a full range of viscosities for various gap-filling requirements; fast cure speeds for quick pressure testing; high-temperature resistant products available.
- Excellent flexural and vibration tolerance with no loss in seal integrity; liquid sealant provides greater surface-to-surface contact than mechanical fasteners
- Resistant to oils, solvents and other surface treatments; wide temperature range; from 55 to 230°C; gap fill capability from interference fits up to 0.5mm.

About the company: Hitlock Adhesives, Mumbai is a manufacturer, supplier, importer and exporter of a wide gamut of industrial adhesives.

Contact:

Hitlock Adhesives India, Mumbai
Tel: 022-26660890/4195. Email: info@hitlock.in

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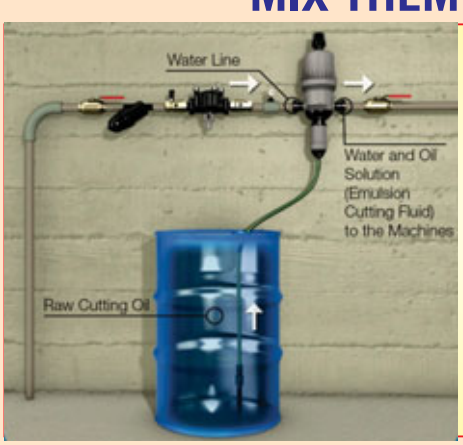

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HEAT SINK COMPOUND

Prathmesh Udyog offers thermally conductive heat sink compound.

Features:

- Thermally conductive heat sink compound's are single component modified silicone system.
- This product finds versatile applications like mounting studs of transistors, diodes and silicone rectifies to provide effective heat seal and to improve conductivity at heat sink junctions.
- It fills even minute air gaps between the mating surface and thereby reducing the thermal impedance; this product is a thermally conductive but electrically insulating system.
- This product finds application in mounting studs of transistors, diodes and silicone rectifiers to provide effective heat seal and to improve thermal conductivity at heat sink junctions.

About the company: Prathmesh Udyog is working in field of minimising/stopping leakages, seepages from oil, water and gas also supplying lubricants, welding consumables.

Contact:
Prathmesh Udyog, Korba
Mobile: 09826344480, 07987127752
Email: praveen@prathmeshudyog.com

THREAD LOCKER

Sang Enterprises offers thread locker.

Features:

- Thread locker is used to seal machinery fasteners against loosening due to vibrations; transverse shock vibration tests have proved beyond doubt that anaerobic adhesives are the best solution to prevent vibration loosening.
- It also seals the threads and prevents corrosion between the threads; being an acrylic adhesive the cured film inside the threads dampens vibration and ensure fail-safe assemblies.
- Eliminates conventional locking systems such as star washers, spring washers and nylok nuts efficiently; prevents loosening of nuts even under severe vibration and impact loads; protects from seizure of fasteners.

About the company: Sang Enterprises is engaged in wholesale, supply and trade of a comprehensive assortment of cutting tool, power tool, hand tools, rubber gasket, safety gloves, safety shoes, etc. The company also manufactures a wide range of silicone rubber gasket and wire brush.

Contact:
Sang Enterprises, Surat
Mobile: 08079485431
Email: sang_enterprise@yahoo.com

EPOXY ADHESIVES

Industrial & Construction Solutions offers an exclusive range of epoxy adhesive.

Features:

- The offered adhesive is processed with the help of excellent quality chemical compounds and advanced technology in compliance with set industrial norms; the adhesive does not shrink over a period of time.
- Fasto E400 is a very high strength and fast curing two part epoxy based adhesive, in ready to use 3:1 cartridge.
- Fasto E400 is formulated for bonding, sealing and holding various substrates like steel, aluminum, brass, ceramic, concrete, plastics and many type of rubbers
- Fasto E400 can also be used in maintenance for bonding and repairing steel, ceramic or plastic parts.

About the company: Industrial & Construction Solutions is a trader and supplier of a range of construction adhesive, construction polymer, flange sealant, UV curing adhesive, retaining compound, etc.

Contact:
Industrial & Construction Solutions, Coimbatore
Mobile: 08079407203
Email: gk@icsolutions.in

SELF ADHESIVE TAPE

Ashutosh Enterprise provides self-adhesive tape by coating an acrylic adhesive on biaxially oriented polypropylene film.

Features:

- It is extremely strong, very sticky and can withstand extreme temperatures which make it ideally suitable for automatic packing machines.
- It also makes cartons tamper proof because only the carton can be strapped with signature tapes, advantages are superb tack and adhesion to surface; the strong grip that is ensured because of an excellent adhesive backing.
- Quality processing equipment that guarantees consistent quality; assured, marked tape length; longer shelf life; peak performance even under extreme conditions of pressure and temperature.

About the company: Established in the year 2004, Ashutosh Enterprise is engaged in manufacturing, importing and exporting of adhesive tapes, printed labels, plastic mesh, shrink sleeves, polymer sheet, corrugated edge protector, packing rolls, etc.

Contact:
Ashutosh Enterprise, Rajkot
Tel: 0281-2446407, 3053435
Mobile: 09426900500, 09824043123
Email: info@plastpackagingworld.com, ashutosh@rishieximinc.com

HOT MELT ADHESIVE

Texyear Industrial Adhesives is offering wide range of hot melt adhesive for cosmetic mirror attachment.

Features:

- Hot melt adhesive for laminating the mirror on cosmetic box, makeup box, cosmetics case, make-up kit, etc.
- Texyear provides various hot melt adhesive, hot melt glue stick, and pressure sensitive hot melt adhesive (HMPSA) for cosmetic mirror assembly.
- Different types of hot melt adhesive for bonding different materials; different shapes of hot melt adhesive for various application of equipments
- Various specifications of hot melt adhesive to meet the requirements of every operating conditions; great heat resistance that is easy for storage and transport.

About the company: Established in the year 1988, Texyear Industrial Adhesives Pvt Ltd is engaged in offering quality range of hot melt adhesives (polymelt).

Contact:

Texyear Industrial Adhesives Pvt Ltd, Mumbai
Tel: 022-26281912, 26288872
Mobile: 09892213642
Fax: 022-26281912
Email: anil@tyiapl.com

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Web: - www.potentialengineering.com
Contact : - Mr.Deepam Sheth

MACHINED INVESTMENT CASTINGS

Gravity Cast offers a wide range of machined investment castings.

Features:

- Machined investment castings offered allows for stronger forged cast/machined parts and are developed using well defined process support so as to assure production of high-strength components.
- Further, these also provide for economical performance and are developed using modern machining processes like lathes, milling machines and drill presses for achieving flawless casted finish.
- Well developed turning and milling operations for achieving desired shape and form; faster and economical production operations; option of different surface finishes that are developed based on product's end usage.

About the company: Gravity Cast Pvt Ltd trades, manufactures and supplies investment castings. Its range encompasses variety of products like architectural castings, industrial castings, non ferrous metal castings, pump castings etc.

Contact:
Gravity Cast Pvt Ltd, Rajkot
Tel: 02827-253037 Mobile: 09375324868
Email: info@gravitycastindia.com

PRECISION INVESTMENT CASTING

B K Tech Enterprise Inc offers a wide range of precision investment casting.

Features:

- Used in various industries for lost wax process and investment casting, available in various custom-built forms; non corrosive, easy to install feature.
- Special wax is injected into metal die to make wax patterns; wax patterns (replica of part) assembled into a cluster around a wax runner system.
- The 'Tree' of patterns then coated with layers of a refractory material; assembly is heated to remove the wax and fired at high temperature to bond the mould.
- The mould is heated and molten metal poured; when cooled, the mould material is removed; castings are removed from the runner system for secondary process and final finishing.

About the company: B K Tech Enterprise Inc manufactures and supplies casting products, automobile casting, forging components, industrial flanges, etc.

Contact:
B K Tech Enterprise Inc, Rajkot
Mobile: 09662861959.
Email: sales@bktechenterprise.com

FORGED STEEL BARS

Sunil Forging & Steel Industries offers a wide range of forged steel bars.

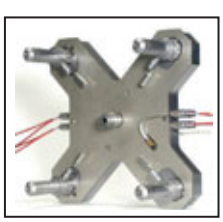
Features:

- The offered range of forged steel bars provide dimensional accuracy and corrosion resistance.
- These precision designed stainless steel round bars are designed with the aid of latest technology and fabricated using high grade raw material hence find numerous applications where strength reinforcement is necessary.
- Further, to suit the given specific requirements these stainless steel round bars are available in various customized sizes and dimensions.

About the company: Established in the year 2006, Sunil Forging & Steel Industries, is one of the 5 heavy open die forging companies in India, engaged in manufacturing, exporting and supplying quality-approved range of open die steel forgings. The offered range includes round shaft rolls, gear blanks, industrial shafts, industrial gears, MS circle, die steel blogs, industrial cylinders, industrial couplings, etc.

Contact:
Sunil Forging & Steel Industries, Navi Mumbai
Tel: 022-27401642.
Mobile: 09920329981.
Email: info@sunilforgings.com

HOT RUNNER INJECTION MOULD



Innovative Moulds & Dies offers a wide range of hot runner injection mould.

Features:

- The outside boundaries of the runners normally solidify, so the plastic material flows only in proximity of the internal heaters or 'torpedoes'; a hot runner controller is used to control the temperature in the hot runner.
- Advantages are elimination of the runner; cycle time reduction/lower processing costs.
- Hot runner technology have expanded the range of possible applications from micro-sized nozzles for inside gating and tight pitch applications, to the other end of the spectrum of large automotive parts and shipping containers.
- Improved molding system efficiency; optimal part quality; molding automation; design flexibility; balanced melt flow.

About the company: Innovative Moulds & Dies is engaged in presenting a rich array of industrial mould and dies.

Contact:
Innovative Moulds & Dies, Chennai
Tel: 044-42852146
Mobile: 09840914445
Email: info@innovamoulds.in

INJECTION MOULD

Axali Mould supplies high quality injection mould for manufacturing purposes, by injecting material into a closed mould.

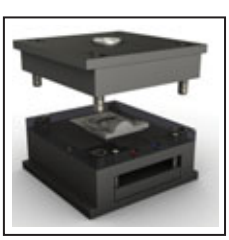
Features:

- Fast production; low labour costs; design flexibility; high-output production; post-production scrap produced is less; good dimensional control.
- The moulds is manufactured using high grade raw material with the help of latest tools and technology under the guidance of accomplished professionals.
- Good colour control; good product consistency; reduced requirements for finishing.
- This mould is widely used in different industries such as textile, automobile, engineering, etc.
- Durable finish standard and optimum strength.

About the company: Established in 2011, Axali Mould is a sole proprietorship firm engaged as a manufacturer and supplier of the best quality range of plastic die, injection mould, die mould, blow mould and hand mould die. The offered range is acknowledged for precise design and perfect finish.

Contact:
Axali Mould, Ahmedabad
Mobile: 08980194810, 09724380666.
Email: axalimould178@gmail.com

PLASTIC INJECTION MOULD BASE



Eltec Engineering is offering a wide range of plastic injection mould base.

Features:

- Manufactured using optimum quality raw material, procured from certified vendors, this range of product is in strict adherence with the global quality standards and norms.
- Moreover, highly competent engineers develop this range with the aid of advanced machines and with utmost precision so as to attain maximum efficiency
- Known for its supreme quality, sturdy construction, dimensional accuracy and high durability, this range is widely appreciated.
- Customised options; durable finish standard; optimum strength; robustness.

About the company: Eltec Engineering, was established in the year 2007. It is a manufacturer and supplier of casting mould and spare part such as standard mold base, custom mold base and casting mould base, etc.

Contact:
Eltec Engineering, Coimbatore
Mobile: 09500200069, 09500650999
Email: eltecengineering@gmail.com, eltecengcbe@gmail.com

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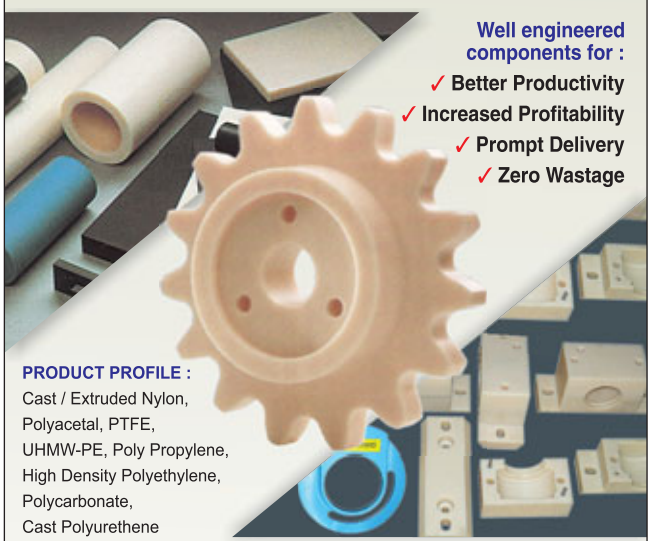

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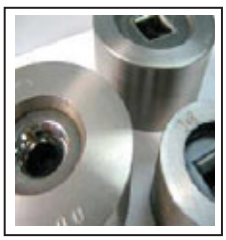
Email : Email : sales@smartsaa.com, akshay.belhe@smartsaa.com

WIRE DRAWING DIES



Regal Carbide Dies offers highly designated carbide wire drawing dies especially designed for wire drawing industries.

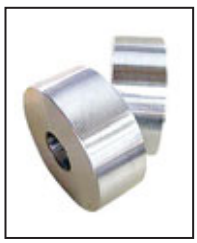
Features:

- These dies are used for MS, SS wire, brass, copper and aluminum wire drawing.
- Beside the common uses the dies are also applicable in the design of MIG wires and CO2 wires.
- These are manufactured using best grade raw material and sophisticated technology.
- Available in different size, corrosion resistant, affordable price.

About the company: Incepted in the year 1987, Regal Carbide Dies Pvt Ltd is engaged in manufacturing and exporting a comprehensive assortment of industrial dies. The offered industrial dies comprises of tungsten carbide wire drawing dies, PCD wire drawing dies, tube drawing dies, bar drawing dies, TC section dies, wire dies, r8 collets, carbide bushes, sector shape compacting, extrusion dies and diamond dies.

Contact:
Regal Carbide Dies Pvt Ltd, New Delhi
Tel: 011-22143278.
Mobile: 09811312738, 09311312739
Email: ankur@regaldies.com

CIRCULAR THREAD ROLLING DIES



Tool Masters India is offering high quality circular thread rolling dies.

Features:

- These circular thread rolling dies are manufactured using high-grade tool steel, which is procured from some of the most trusted vendors of the industry.
- Moreover, these products can be reconditioned and used again, as per given requirements.
- The products offered are widely used in thread rolling machines; they provide dimensional accuracy, durable standards, resistant to corrosion.
- Used for engineering sector, architecture sector, electronic industries and automobile industries.

About the company: Tool Masters India, was incepted in the year 2004. It is engaged in manufacturing, supplying and exporting of various precision cutting tools, gear cutting tools, gear hobs, spline hobs, gear shaper cutters, spline broaches, keyway broaches, sprocket hobs, scalping cutters, gear milling cutters, etc.

Contact:
Tool Masters India, Patiala
Tel: 0175-2352637
Mobile: 09815941718, 09876300890
Email: toolmasters@gmail.com

INVESTMENT CASTING

Supercast Industries is presenting a wide spectrum of investment casting.

Features:

- Widely appreciated for its durability, reliability and high strength.
- The casting that is produced has a very smooth surface, which is created without a parting line.
- Finished piece will need no welding or assembling thus saving on time and cost.
- Rugged, precised dimensions and easy to install; abrasion resistant casting
- Grades - corrosion resistant casting; heat resistant casting; wear resistant casting; corrosion and water resistant casting.
- Use for material nickel alloy; cobalt alloy; copper alloy; aluminum alloy; zinc alloy.

About the company: Established in the year 1999, Supercast Industries is active in manufacturing, trading, supplying and service providing a spectrum of products including ferrous and non ferrous casting and casting components services. These products are known for their reliability, ruggedness, high strength and elevated life.

Contact:
Supercast Industries, Mumbai
Mobile: 09665094970, 09326474970.
Email: response@supercastind.com

ALUMINUM FORGINGS

Best Forgings India specialise in manufacturing and supplying aluminum forgings.

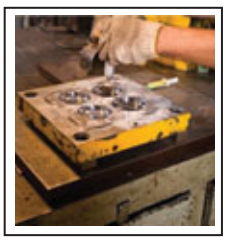
Features:

- Aluminum forgings are generally used in applications where the high integrity of the part is of utmost importance.
- They are used primarily for structural components such as the intake (front end) of gas turbine engines where light weight is crucial.
- The aluminum components manufactured ranges in weight from a few ounces to a few hundred pounds, and are forged into a wide variety of shapes and sizes with or without cores.

About the company: Best Forgings India Pvt Ltd, an ISO 9001:2008 certified company, is a manufacturer, exporter and supplier of premium quality ferrous and non ferrous forged components. Range of products offered consists of forged parts, forged pipe fittings, forged valves, automobile components, flanges, non-ferrous components, electrical parts, agriculture parts and machined components.

Contact:
Best Forgings India Pvt Ltd, Coimbatore
Tel: 0422-2673435
Mobile: 09894614860
Email: info@bestforgings.in, bestforgings@bsnl.in

MOULDING DIES



General Plastic Industries offers a qualitative range of moulding dies.

Features:

- Designed and manufactured by professionals using fine quality raw material and recent techniques in state-of -the art manufacturing facility.
- Processing method – punching and shearing mould; process combination – single-process mould.
- Manufacturing technology – automation technology; driving motor type – permanent magnet; mold cavity technology – CNC milling; milling speed – normal speed; size – 960mm*650mm*690mm.

About the company: General Plastic Industries is a provider of cutting edge plastic technology solutions since 1968. It serves the automotive, lighting and industrial segments. The company manufactures and supplies a collection of moulding components. The products range is plastic mould and dies, moulding products. It is also a service provider of injection moulding job work, injection moulding services, tool designing services, gear moulding services, insert moulding services, over moulding services, thin wall moulding services, etc.

Contact:
General Plastic Industries, Delhi
Mobile: 09999600619. Email: sales@generalplastic.in

EPOCH
Instruments & Controls Pvt. Ltd.
Mfrs. of Load Cell & Digital Indicator/Transmitter

EPOCH INSTRUMENTS & CONTROLS PVT. LTD., INDIA was established in 1985 by a team of Professionals to manufacture Load Cells, Pressure Transducer, Process Controller & various kinds of custom Built Industrial Weighing Systems to meet the various requirements of Process Industries, Cement Industries, general Weighing application etc.

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Email: sales@epochloadcell.com
Web: www.epochloadcell.com

RAVIK
RAVIK ENGINEERS PVT. LTD.

111/9, Kishangarh, Aruna Asaf Ali Marg,
Opp. B/4, Vasant Kunj, New Delhi 110 070, India
T. 011 - 2613 6184/85, 4101 2619
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PRECISION PLASTIC MOULDS

Tooling Temple offers precision plastic injection moulds for automotive industry, machinery industry, etc.

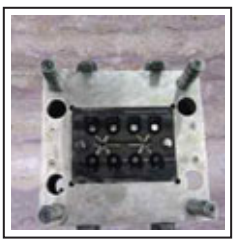
Features:

- Precision dimension tolerance through GD&T is achieved as per customer component drawing in these moulds.
- This is achieved through professional design, mold flow analysis, high quality mould steels, high quality standard parts used and precision machining.
- The injection moulding production shop process engineers use best processing methods and parameters to take correct samples from this mould.
- These moulds are gauranteed for high life.

About the company: Tooling Temple established in 1992, manufactures precision plastic injection moulds and injection moulded components. It has a design centre, tool room and plastic moulding production facility. The company possesses experience in design and manufacture of moulds for almost all sectors likes automobile, textile, electrical, electronics, defence, aviation, medical, household, etc.

Contact:
Tooling Temple, Coimbatore
Mobile: 09843016162. Email: info@toolingtemple.com

PIPE FITTING PPR MOULDS



R-Tek Mould provides an assortment of pipe fitting PPR moulds.

Features:

- The range is manufactured in strict accordance with the global quality standards by employing superior-grade raw material, which is procured from the reputed vendors of the market; these moulds have robust construction, high working speed and low maintenance.
- Further, the company employs modern machinery and latest production techniques during the fabrication process; low power consumption, smooth functioning, easy to operate.
- Used for installing or repairing piping or tubing systems that convey liquid, gas, and occasionally solid materials.
- Some of the major attributes of the range are corrosion resistance, high strength, dimensional accuracy and lightweight.

About the company: R-Tek Mould Pvt Ltd is an ISO 9001:2008 certified business entity engaged in manufacturing industrial moulds, die castings, plastic and aluminum components.

Contact:
R-Tek Mould Pvt Ltd, Ludhiana
Mobile: 09814216126. Email: filing.mca@gmail.com

DIE SPRING

Vardhman Dies & Mould Tools offers a range of die springs.

Features:

- Die springs are basically used in various pressure related equipment; die springs are made from latest available technology
- Spring masters' die springs are precision products manufactured on special equipment and under carefully controlled processes
- All of the manufacturing steps of these die springs are conducted under rigid quality control, inspection, and testing to assure that the long service life that has been engineered into every spring masters' die spring is not adversely affected.

About the company: Manish Engineering Company is active in the injection moulding, die casting and compression moulding industry. It manufactures, supplies and exports mould base die set, mould date indicator, parting locks, tunnel gate inserts, aluminium ball cage, brass ball cage, sprue bush, runner bushes, square ejector pins, etc.

Contact:
Vardhman Dies And Mould Tools, Thane
Tel: 022-30911015.
Mobile: 09324061804
Email: sales@vardhmandiesandmouldtools.com

ALUMINUM EXTRUSION DIES

Parekh Wire Cut is offering a wide assortment of aluminum extrusion die.

Features:

- These extrusion dies are provided in several sizes dimensions keeping in mind the requirements of customers.
- The offered extrusion dies are designed with the best quality material and hi-tech tools at advance manufacturing unit.
- These extrusion dies are checked in terms of quality so as to deliver a flawless range available at competitive rates.
- Precisely designed; long service life; optimum functionality.

About the company: Parekh Wire Cut is manufacturing and exporting a qualitative array of turret punch press tooling, calibration block, etc. These products are manufactured using high-quality raw metals and cutting-edge technology as per the set industry standards. These products are well-known for their corrosion resistance, durability, high strength and seamless operation.

Contact:
Parekh Wire Cut, Surat
Tel: 0261-2758113
Mobile: 09879485818, 09913320013
Email: parekhwirecut@gmail.com,
infopwc2004@gmail.com

INVESTMENT DIE CASTING

Sunsil Engineers offers quality range of investment die casting to provide a quality end product and rapid turnaround.

Features:

- This investment die casting is used in casting process for fabrication of various components.
- High production rates, particularly for small components; high dimensional accuracy and consistency; high integrity castings.
- Extremely good surface; highly complex shapes can be casted; long or short runs can be accommodated; almost any alloy can be cast.

About the company: Established in the year 1984, Sunsil Engineers is engaged in manufacturing and supplying various types of products. The product range includes hot runner mould, welding jig, plastic injection mould base, rubber mould, welding fixture, investment die casting, plastic injection moulding component and thermo injection mould, etc. Offered products are precisely designed by proficient engineers and manufactured using advanced methodologies, hence ensuring their unperturbed performance.

Contact:
Sunsil Engineers, Coimbatore
Tel: 0422-2457702
Email: sunsilengineers@yahoo.com

WIRE DRAWING DIES

Pragati Industries offers drawing dies for wires from size 0.15mm to 30.00mm. Mild steel casings are used for wire drawing dies.

Features:

- These casings are hardened for long life and maximum output from die; casings of EN 8 material are used for dies wherein the speed of machine is over 10m/sec.
- The profile of the die depends upon the grade of material to be drawn, speed of the machine, reduction on the die, lubrication used (powder or liquid), etc.
- Mirror polish is done for better surface quality of output wire from die; the automation used guarantees the tolerance in 0.001mm.

About the company: Pragati Industries, is a manufacturer, supplier and exporter of a comprehensive range of automatic nail making machine, nail cutter grinder, nail polishing machine, gripping die and wire nail, etc.

Contact:
Pragati Industries, Rajkot
Tel: 0281-2456683
Mobile: 09033001118
Email: pragatigati@yahoo.com

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e-mail : secontech@hotmail.com/ secontech2000@gmail.com

SPECIAL PROFILE DIES

Verma Dies Exports offers a wide range of special profile dies.

Features:

- Selectively used for unique industrial processing and machining to accomplish a target work.
- These special profiles dies are designed as per needs, specifications and requirements of the customers.
- Special profiles dies are of wide range because their designs and dimensions totally depend on their end use and type of products to manufacture from by using these special profiles dies.
- Highly customised with accurate precision; high-performance material; use of graded material according to nature of dies.

About the company: Verma Dies Exports incepted in 1975 is engaged in manufacturing, exporting and supplying of premium quality wire drawing dies, bar drawing dies, tube drawing dies, fastening dies, shaving dies, bar drawing machineries, wire drawing machineries, etc.

Contact:
Verma Dies Exports, Ludhiana
Tel: 0161-4624228, 4624228 Mobile: 09888498988.
Email: info@vermadiesexports.com, vermadiesexports@gmail.com

ZINC CASTING

Rajshi Technologies India offers a wide range of zinc casting.

Features:

- Zinc casting process is carried out in two sub-processes, namely die casting and gravity casting.
- Usually, the zinc die casting process uses three alloys of zinc, i.e. alloy 3, alloy 5 and alloy 7.
- These alloys of zinc are used because they have good ductile and malleability properties.
- Used for plated and highly decorative areas, because of its excellent finishing characteristics.

About the company: Rajshi Industries is active in manufacturing non-ferrous metal casting products. This company is ISO 9001:2008 certified by Max certifications by certificate No.10249-QMS-249. The company manufactures die cast components, aluminum castings and aluminum die castings by pressure die casting, gravity die casting, sand casting and shell moulding process. It also manufactures sand castings, pressure die castings, zinc castings, zinc die casting and chemical process equipment.

Contact:
Rajshi Technologies India Pvt Ltd, Greater Noida
Tel: 0535-2703762 Mobile: 09999240518
Email: abhinav@rajshiindustries.com

PLASTIC MOLDS

Vikas Industries provides a comprehensive array of plastic molds.

Features:

- The offered product is widely used in the designing of PVC blocks.
- It is precisely fabricated by expert professionals by utilising best grade components and innovative technology.
- The offered product goes through the stringent quality check before delivery to meet the guidelines laid by the industry and also to ensure its best quality.
- High strength; exact dimensions; précised finish standards.
- Reliable; lightweight; enhanced durability; fine finish.

About the company: Incepted in the year 2006, Vikas Industries is a manufacturer, exporter, supplier, trader, importer, service provider of an array of plastic molds and molded articles, etc. Its precision engineered range comprises of plastic injection molding washing machine cover, plastic injection molding AC cover, plastic injection molding heavy bust bin, plastic, plastic injection molding telephone set, etc.

Contact:
Vikas Industries, Mumbai
Mobile: 09821036215, 09821666215
Email: response@vikasindus.com

HEAT RECOVERY BOILER

Akshaya Enterprises offers high quality heat recovery boiler.

Features:

- These products have rugged construction and innovative designs.
- Additionally, these boilers are highly acknowledged for long life and efficiency; moreover, these boilers have large combustion volume, which assists in improving safety and output ratio.
- These can be availed in different sizes and specifications; assortment of boilers having superior radiation heat transfer area are also offered.
- These boilers are designed as per requisite norms and standards; boilers are fabricated under the supervision of skilled professionals utilising cutting edge technology.

About the company: Established in the year 1989, Akshaya Enterprises, is a manufacturer, exporter and supplier of industrial processing machines, equipment, and plants. These find wide application across garments, dairy, textile, power, processing equipment, erection work for boilers and vessels, reverse osmosis plant, boilers, industrial heat exchanger, cooling towers, etc.

Contact:
Akshaya Enterprises, Coimbatore
Tel: 0422-2410272. Mobile: 09629968102
Email: balanakshaya@yahoo.com

OIL FIRED STEAM BOILER

Heat Max Engineering offers oil fired steam boiler, which are designed and manufactured to deliver optimum functionality in the given environment.

Features:

- Backed by cutting edge features and special designs, these fully automatic systems provide complete ease of operations and maintenance.
- Package type, fully automatic, three pass and water tube design electric steam boilers; these industrial steam boilers are designed to efficiently meet the demands of instantaneous steam.
- For achieving perfect combustion, it includes precisely designed smoke passages and combustion chambers.
- Higher operational efficiency; instant steam generation; fitted with all safety tools and instruments; compact designs; fully automatic; fitted with all safety instrument; instant steam generation; higher efficiency.

About the company: Heat Max Engineering is a manufacturer of industrial thermic fluid heater, industrial steam boiler and hot water generators. The company also offers belt conveyors, pollution control equipment, industrial coils and hot air generators.

Contact:

Heat Max Engineering, Ahmedabad
Mobile: 09824052714. Email: hmevipul@yahoo.com

MOBILE STEAM BOILERS

Saz Boilers offers mobile steam boilers.

Features:

- Mobile steam boilers are designed as an enclosed structure that offer protection against all kinds of inclement weather.
- The major advantage of using these boilers is that these can be moved from one place to another as per requirements.
- High grade of components are used that are sourced from trustworthy vendors along with updated machines and high end technology.
- Automatic operation; optimal efficiency; silent operation; corrosion free surface; easy to install.
- Capacity (kg/hr) – 1000-2000; working pressure (kg/cm2g) – 10-15; voltage – 380V; usage – industrial.

About the company: Saz Boilers is a manufacturer, exporter, and supplier of steam boilers, hot water generators, thermal fluid heaters, hot air generators, etc. They are used in various industrial applications in the sectors like food industry, laundries, chemical process, textile industries, oil refineries, etc.

Contact:
Saz Boilers, Pune
Tel: 020-26970420 Mobile: 09822036995
Email: saz@vsnl.com

WOOD FIRE STEAM BOILER

Sanjivan Industries manufactures high quality steam boiler wood fire.

Features:

- These boilers are used for medium scale units for their use of woods in producing steam, which makes them cost effective and efficient in boiling water.
- The offered products are well known for resilient design and user friendly attributes, owing to their fabrication with contemporary technology.
- The company provides these boilers in different variants as per clients' needs at competitive market rates; rust proof; sturdy design; high functional efficiency.

About the company: Sanjivan Industries, is engaged in manufacturing and exporting a wide range of food processing machines and equipment. The range includes mava machines, khoya mawa machine, steam boiler, namkeen machinery, sweets and snacks machineries, ice-cream machine, mango pulper, potato chips cutting machine, vegetable cookers, chatni machine, thirmic plant machineries, milk boilling machine, etc.

Contact:
Sanjivan Industries, Vasai
Tel: 022-28116904 Mobile: 09820998248
Email: sanjivan@sanjivanindustries.com

POLYMERS HEAT EXCHANGER

Mark Engineers offers polymers heat exchanger.

Features:

- These heat exchangers also come with vacuum brazing finish at high temperatures that provides for permanently sealed working interface.
- Further, the system's working interface also supports removal of heat from high-temperature fluids using convection and conduction process.
- Suitable for meeting the processing needs of industrial polymers; heat exchangers comprising thin acid-resistant stamped stainless steel plates supported by brazed gaskets for optimum functional support.
- Comes with vacuum brazing finish at high temperatures that provides for permanently sealed working interface; strong and compact plate heat exchangers suitable for soft flow dying.

About the company: Mark Engineers manufactures, and trades heat exchanger, heater for textile processing machine, tray dryer for chemical industries, dryer for pharmaceutical machinery, heat exchanger for food processing machinery, etc.

Contact:
Mark Engineers, Ahmedabad
Tel: 079-40083134. Mobile: 09825012504
Email: markheatcool@gmail.com, info@markheatcool.net

HEAT EXCHANGERS, SMOOTH TUBE TYPE

HRS Process Systems offers ecoflux smooth tube heat exchangers.

Features:

- Ecoflux smooth tube heat exchangers (ESTHE) is one of the tubular type of heat exchanger that falls under recuperative category, widely used in industry; it consists of tube bundle within a common shell.
- Smooth tube HE can withstand high pressure and temperature used for various applications like heating/cooling, condensation, etc.
- USP - flexible in design; suitable for high temp pressure compatibility; can handle high level of particulate material; mechanically simple in design; comparatively low in cost.
- These type of HE used in various types of industries like, steel, fertilizer, pharma, process, paper, oil, power, petrochemical, oil refineries, cement, paint, polymer, distillery, refrigeration, etc.
- The heat exchangers can be used as heaters/coolers, condensers, chillers, vent condensers, sub coolers, gas heater/coolers regenerator, engine coolant cooler, etc.

About the company: HRS Process Systems Ltd is one of Europe's leading heat exchanger specialists.

Contact:
HRS Process Systems Ltd, Pune
Tel: 020-25663581 Mobile: 08600007412
Email: info@hrsasia.co.in, mktcom@hrsasia.co.in

HEAT EXCHANGER, NUCLEAR POWER TYPE

Aerotherm Products offers nuclear power plant heat exchanger.

Features:

- These nuclear power plant heat exchangers are used for high pressure and high temperature applications such as boiler feed water pre-heaters, for all types of power plants and special equipment for all circuits for nuclear power plant.
- The heat exchangers for nuclear power plant are designed for pressure ratings up to 600 bar and operating temperatures of 10000C and in specialised materials like nickel alloys and stainless steel construction.
- Rugged construction; corrosion resistant; available with customisation; high durability; low maintenance cost; trouble free operation.

About the company: Aerotherm products is an ISO 9001:2008 certified company involved with design, development, manufacture and erection of capital engineering equipment primarily used in process industries like refineries, fertilizer plants, chemical process plants, fabric industry, pharmaceutical industry, etc.

Contact:

Aerotherm Products, Ahmedabad
Tel: 079-25841663 Mobile: 09879104473
Email: info@aerothermproducts.com

RUBBER PRODUCTS

Kiran Rubber Industries Pvt. Ltd.
135, Shiv-Krupa Industrial Estate, LBS Road, Opp. Raj Legacy, Vikhroli (W), Mumbai 400 083. Tel: 022 4263 7400 • Fax: 022 4263 7499.
E-Mail: info@kiranrubber.com / Website: www.kiranrubber.com

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Aluminium Body Worm Gear Box

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Job 10.0 mm - 1400.0 mm Dia
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Fax: 28455982. **Email:** enquiry@sudarshangears.com

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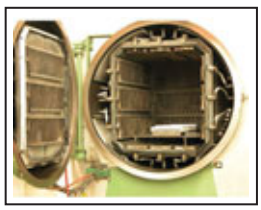
VACUUM HEAT EXCHANGER



Sparktech provides a quality range of vacuum heat exchanger.

Features:

- Making use of high-quality raw material and advanced machines, these are manufactured in strict adherence to set industry standards.
- Moreover, to meet the specific needs and demands of the clients, these products are also manufactured with custom designs and specifications.
- Offered at industry leading prices, the range is widely demanded due to following attributes: precision designs; robust construction; corrosion resistance; high performance and efficiency.

About the company: Established in the year 2007, Sparktech is engaged in manufacturing, exporting and wholesaling of machines and equipment for food industry. The range of products offered includes heat exchanger, vegetable oil refinery plant and solvent extraction plant. The company has also been the supplier of refining machines and equipment for the edible oil and margarine industry.

Contact:

Sparktech, Mumbai
Tel: 022-26465920 Mobile: 09820443509
Email: amitw@sparktech.biz, sparktech@sparktech.biz

PLATE HEAT EXCHANGER

Tavron Engineers offers a vast range of plate heat exchangers.

Features:

- These are extensively used for cooling and heating of various liquids; it has a capacity from 500 LPH to 200000 LPH.
- The frames and pressure plates are available in carbon steel and CS cladded with stainless steel; the plates are available in SS 304/SS 316/SS 316 L/ titanium.
- Some of the essentials of these products are semi welded PHEs for condensation; evaporation of refrigerant.
- Semi welded PHEs for handling other critical media; gaskets offered in nitrile/EPDM/viton, etc. depending on temperature.

About the company: Tavron is a specialist in designing and supplying of equipment that are widely used in chemical, food and beverage and dairy industries. The product range includes plate heat exchangers, spray dryers, beverage equipment, refrigeration equipment, stainless steel centrifugal pump, dairy equipment, etc.

Contact:

Tavron Engineers, Chennai
Tel: 044-25567211 Mobile: 09444015442
Email: samdev@vsnl.com, samuel@tavron.net

ALUMINUM HEAT EXCHANGER

Thermal Energy Systems provides high quality aluminum heat exchangers.

Features:

- The offered robust range of heat exchangers are suitable for power plants, textile mills, pharmaceutical and food processing industries.
- Designed especially to assure less fouling and lower operating cost, the range is developed under strict quality supervision.
- The corrosion resistant heat exchangers in 12 tons, 16 tons, 24 tons, 32 tons, 40 tons sizes at a leading price can be availed.
- Superior thermal efficiency; high temperature and pressure resistance; vibration free operation.

About the company: Thermal Energy Systems is engaged in manufacturing and exporting aluminium extruded finned tubes and heat exchangers. The product line consists of aluminium and copper finned tubes, industrial coolers and industrial heat exchangers. These products have features like unbreakability, high efficiency, longer service life, sturdy design, easy maintenance and user-friendliness.

Contact:

Thermal Energy Systems, Chennai
Tel: 044-42112599 Mobile: 09487117599
Email: thermalenergysystems@gmail.com

HEAT EXCHANGER, TUBE BUNDLE TYPE

United Cooling Systems offers tube bundle heat exchanger.

Features:

- An intermediate tube bottom, having insert tubes arranged concentrically in the tubes, is located in the inlet chamber, with these insert tubes projecting out on both sides from the tubes and forming annular spaces therewith.
- The heat exchanger has an inlet tube bottom and an outlet tube bottom, in which are fastened the ends of tubes which connect the bottoms and through which the medium of high inlet temperature flows.
- A tube bundle heat exchanger for cooling a medium having a high inlet temperature.

About the company: United Cooling Systems (P) Ltd is one of the world's largest total cooling tower and heat exchanger manufacturer, exporter and supplier apart. The wide product range includes cooling tower, heat exchanger, industrial cooler, etc.

Contact:

United Cooling Systems (P) Ltd, Coimbatore
Tel: 0422-2676082, 2673175
Mobile: 09443301342
Fax: 0422-2676082.
Email: info@unitedcoolingtower.com, coolingtowers@gmail.com

HEAT EXCHANGER, SCRAP SURFACE TYPE

Shri Yash Fabricators & Consultancy offers scrap surface heat exchanger especially for soya lecithin plants.

Features:

- These unicus dynamic scraped surface heat exchangers are specifically designed for high viscosity products with or without particulates, for fouling applications, evaporation and crystallization.
- These have low power consumption, require easy maintenance, allow hygienic or industry construction and gentle product handling.
- The range of unicus dynamic scraped surface heat exchangers is provided with a variety of scraper blades to match the product demands.
- Used for chemical industry, evaporation applications, treatment of waste residue, etc.

About the company: Shri Yash Fabricators, is engaged in manufacturing and exporting a wide range of industrial plant machinery and associated equipment such as thermic fluid boiler, heat exchangers, industrial heat exchangers and plate heat exchangers & pressure vessels.

Contact:
Shri Yash Fabricators & Consultancy, Indore
Tel: 0731-4281158 Mobile: 08818999901
Email: shriyash888@gmail.com

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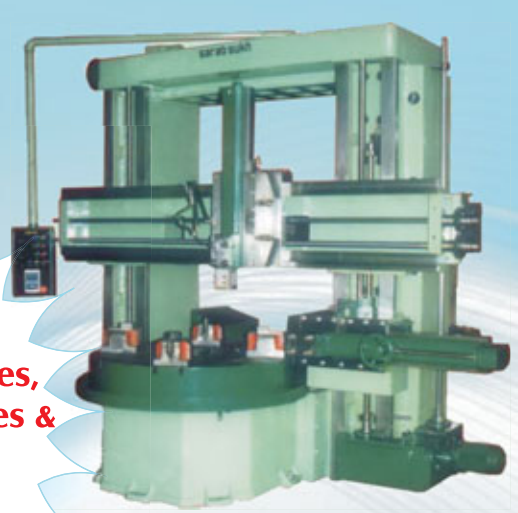

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Web: www.sarabsukhmachines.com

HEAT EXCHANGER, CYLINDRICAL GRAPHITE TYPE

Saishraddha Graphite Equipments & Systems manufacture and offer a wide range of cylindrical graphite heat exchanger (block type).

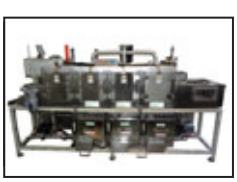
Features:

- These can work from full vacuum to maximum temperature of 7.5 bar (g) and provide optimum results.
- These are available in different models with specific surface area, process side and service side.
- Working pressure – full vacuum to maximum 7.5 bar (g) on both side; multipass construction ensure flexibility in design; self protected stirrup nozzle.
- Mounting-vertical/horizontal; polyblock construction adds more flexibility in case of modification; manufactured with standard blocks.

About the company: Saishraddha Graphite Equipments & Systems Pvt Ltd is engaged in manufacturing of graphite equipment, ejector system, dilution cooling unit, steam ejector system, sulfuric acid dilution cooling unit, etc.

Contact:
Saishraddha Graphite Equipments & Systems Pvt Ltd, Nashik
Tel: 02551-230691
Mobile: 09822624009
Email: saigraphite_equipments@rediffmail.com

BEARING CLEANING MACHINE



Ultramax Hydrojet provides bearing cleaning machine.

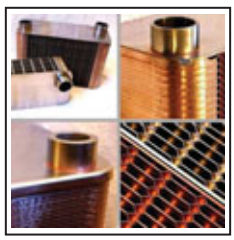
Features:

- Used for degreasing and pressure washing applications, these bearing cleaning machines are easy to operate and require low maintenance.
- Known for the low maintenance and consistency in cleaning, the bearing cleaning machine is used for rinsing and hot air blowing applications.
- High level of cleaning; fully automated in relay/PLC logic; consistency in cleaning level; energy efficient machine.

About the company: Established in 2006, Ultramax Hydrojet Pvt Ltd, is an ISO 9001:2008 certified company. It is a manufacturer, exporter, wholesaler, trader and importer of component cleaning machine, component washing machine, parts cleaning machine, degreasing machine, parts washing machine, etc.

Contact:
Ultramax Hydrojet Pvt Ltd, Chennai
Tel: 044-42852262, 42852264
Mobile: 08903335093, 8903335095
Email: marketing@hydrojet.co.in

WATER TO AIR HEAT EXCHANGER



Airec Energy India provides an extensive range of water to air heat transfer exchanger equipment.

Features:

- The offered range of heat exchangers is efficient to meet specifications of varied heat transfer applications with varied volume flows.
- Featuring round connections and sturdy construction the offered heat transfer equipment is finished with a plate design that works exceptionally well even in pressure drop.
- Open inlets and outlets; large volume flow; higher thermal efficiency.

About the company: Established in the year 2010, Airec Energy India, is a sole proprietorship firm engaged in manufacturing, exporting, importing, distributing, trading and supplying the heat exchangers.

Contact:
Airec Energy India, Vadodara
Tel: 0265-2363921, 2226270
Mobile: 09824057498, 09879120007
Email: info@airec.co.in

WOOD PACKAGE BOILER

Real Boilers provides all types of fully wetback wood package boiler.

Features:

- These heating systems come with the latest technology with high efficiency, minimum maintenance and user-friendly attributes.
- Advantech series of boiler consists of horizontal, shell type fully packaged, 3-pass, wet back design with wood/coal manual fired automatically controlled, tested and proven under rigorous conditions and subject to the strictest quality control procedures.
- Fully wetback steam boiler; large water holding capacity and steam space, to ensure steady supply at fluctuating loads.
- Large grate area and more heating surface facilitate quick steaming; adequate manhole, mud hole for easy maintenance from water side; high efficiency and low stack temperature; factory assembled and tested.

About the company: Real Boilers Pvt Ltd is a manufacturer and supplier of industrial boilers, vessels and fabrication service. To ensure high standards of quality, these boilers are manufactured using cutting-edge machinery and latest technology. The company also offers excellent repairing, fabrication and erection services of the offered industrial boilers.

Contact:
Real Boilers Pvt Ltd, Ahmedabad
Tel: 079-26577222. Mobile: 09825318255
Email: ibrboiler@gmail.com

MULTISTAGE ULTRASONIC CLEANER

Waveultrasonics offers optimum grade multistage ultrasonic cleaner.

Features:

- The offered cleaners are manufactured employing water based neutral cleaning media technology.
- Furthermore, customisation on the basis of the specifications can also be done; maintenance free; precision-designed; tank size (inch) – 10"x7"x8" to 46"x22"x28".
- System comprises of heavy duty generator and tank; electrical safety and protection; construction – SS316, 16 swg; models are available – 150 W to 2000 W.

About the company: Waveultrasonics is a manufacturer, supplier and trader of a range of cleaning machines and equipment. Ultrasonic tank, ultrasonic cleaning machines and laboratory cleaning machines, make up this range of products. Manufacturing of this range is done in accordance with the set industry norms and guidelines, utilising the finest raw materials and modern machines.

Contact:
Waveultrasonics, Bengaluru
Mobile: 09902910322
Email: waveultrasonics@gmail.com, info@waveultrasonic.com

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PACKED WET SCRUBBER SYSTEM

SG Enviro Technologies offers high quality of packed wet scrubber systems.

Features:

- These optimum quality products are developed and designed to be used in activated carbon industry.
- These products effectively wash dust and particles out of the air in an efficient manner.
- These products are rigorously tested by a team of experts before being dispatched.
- These products are used more commonly with acid gases; they provide fine quality, long life and efficient working.
- Dedusting efficiency – >98%; exit smoke speed – 8-14 m/s; static pressure of overflow box – 2-5 mm H2O; resistance of the tube – 90-120 mm H2O.

About the company: SG Enviro Technologies is a manufacturer, supplier and exporter of air pollution control equipment, waste water treatment plants and their spares. The product portfolio includes air pollution control system, water and sewage treatment plants among others.

Contact:
SG Enviro Technologies, Coimbatore
Mobile: 09363261222, 08883311414
Email: webmanager@pollutioncontrolequipments.net

INDUSTRIAL VACUUM CLEANER, DMX 80 1-22 SM

Inventa Cleantec offers industrial vacuum cleaner, DMX 80 1-22 SM.

Features:

- When working conditions and dirt type are extreme, dangerous or difficult to manage, inventa heavy-duty industrial vacuum cleaners facilitate non-stop operation.
- Innovative filtering system, with possibility of automatic filter shakers come with a tough construction.
- Machines can also be provided with automatic start stop system for using pneumatic or electrical tools, ensuring dust free area in body shop, while preparing surface, with possibility to work with dangerous dusts.
- Options of induction turbine motors is also available, these motors are superior to traditional carbon-brush motors in terms of safety, longevity and vacuum power
- These vacuum cleaners are available with different suction capacities to suit multiple waste removal requirements.

About the company: Inventa is a manufacturer of cleaning machines and has carved out a niche for itself in cleaning industry.

Contact:
Inventa Cleantec Pvt Ltd, Noida
Tel: 0120-4727210, 4727272
Mobile: 09910486950, 09910113504
Email: inquiry@inventa.in

BACKPACK VACUUM CLEANER

Magna Cleaning System offers a wide range of backpack vacuum cleaner.

Features:

- Backpack vacuum cleaners offered comprise high efficiency based backpack vacuum cleaners that comes with blower function and optional blowing kit support.
- Further, the use of latest technology also makes these deliver consistent performance.
- Some of its features include providing for easy and comfortable maneuvering support; recyclable shockproof polypropylene plastic-based construction which makes it safe to use, top model with single motor support, and polyethylene tank support among other choices.

About the company: Magna Cleaning Systems is recognised in the Indian market for offering a broad selection of heavy duty high pressure water jet cleaners, high pressure hot water and steam jet cleaners, ultra high pressure water blasters, industrial vacuum cleaners, scrubber driers, single disk machines, sweeping machine, dry vacuum cleaners, behind sweeping machine, wet vacuum cleaners and road sweeping machines.

Contact:
Magna Cleaning Systems Pvt Ltd, Navi Mumbai
Mobile: 09320033242, 09320021540
Email: info@magnacleaning.com

MANUAL ROAD CLEANER

Hindustan Road Equipment provides a road cleaner that has bucket system which helps out in collecting dust.

Features:

- This cleaner is fully examined against quality parameters for the assurance of flawlessness in it.
- Low fuel consumption; impeccable performance; excellent design.

About the company: Hindustan Road Equipments, commenced functioning in the year 2007, as an exporter and trader of this impeccable range of road construction equipment. The range comprises of asphalt drum mix plant, asphalt hot mix plant and drum mix plant. These products offered are known for their commendable performance, long functional life and high sturdiness. Manufacturing of this range is done in accordance with the set industry norms and guidelines, by trusted vendors, utilising the finest raw materials and modern machines.

Contact:
Hindustan Road Equipments, Ahmedabad
Mobile: 09725044815, 09081444815
Email: info@hindustanroadequipments.com

IVP-GOLD STEAM CLEANER

Aman Cleaning Equipment offers IVP-gold steam cleaner.

Features:

- Performances of single phase or vacuuming steam generators, normally, decrease consistently while continuous duty.
- With the company's technology, steam is at 6 bar (158°C) even after 5 minutes of continuous work: performances much higher than any other machine of the same category.
- After closing the steam gun, steam pressure and temperature return to top values in few seconds.
- Satured steam at 9 bar at a temperature of 175°C; made of AISI 304 stainless steel; pivoting wheels with brakes, suitable for use in food processing area.
- The boiler can be refilled from the tank provided (continuous duty).

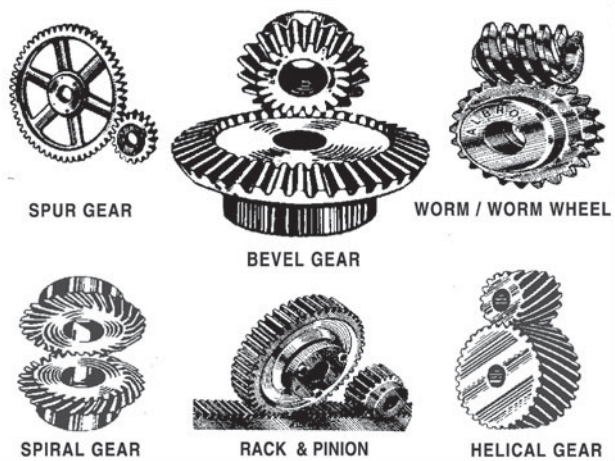
About the company: Aman Cleaning Equipments Pvt Ltd, is a manufacturer, importer and supplier of a highly effective range of floor cleaning and scrubbing equipment.

Contact:

Aman Cleaning Equipments Pvt Ltd, Noida
Tel: 0120-4265082
Mobile: 09810805828
Email: info@amancleaningequipments.com

ALBRO

GEARS - ALL TYPES



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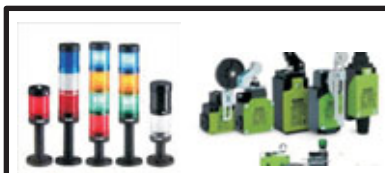

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WASHING MACH1INE, BATCH TYPE

Kelleys Engineering Works offers batch type washing machine.

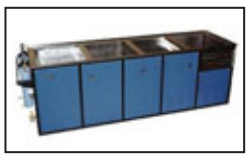
Features:

- Component to be cleaned are loaded on fixture manually/ auto transfer on actuation on switch, work basket moves insides the chamber and front door closes.
- Component indexes at jet washing station with oscillating header for internal component cleaning.
- Component indexes at air blow station for drying and after completion of washing cycle; separate washing and drying zone.
- Component/nozzle box oscillation during washing and drying; filtration: bag/cartridge filter, compact paper band, wedge wire drum filter.

About the company: Kelleys Engineering Works is engaged in manufacturing, supplying and exporting superior industrial component washing machine, phosphating plant booth and industrial ovens. The products are designed to meet the essential requirements of various industrial and commercial sectors.

Contact:
Kelleys Engineering Works, Faridabad
Tel: 0129-4083251.
Mobile: 09811037554, 09810752224
Email: kelleysvib@yahoo.com, kelleysvib@gmail.com

MULTISTAGE CLEANING SYSTEM



Highclean Ultrasonics are offering a wide range of multistage cleaning system.

Features:

- The offered systems are manufactured in line with international quality standards using premium quality materials.
- Multistage cleaning systems are ideal for degreasing, derusting, descaling, decarbonising and other cleaning requirements of automobile engineering, electrical and electronics and textile industries.
- The offered products are available in various customised options to suit the given requirements.
- These features include: rust free; accurate dimensions; toughness.

About the company: Highclean Ultrasonics is a manufacturer, supplier and exporter of ultrasonic cleaning system. The offered product range consists of industrial cleaning system, table top cleaner and immersible transducer. The stainless steel, which is best in the market, is used for manufacturing of these cleaning machines.

Contact:
Highclean Ultrasonics, Mumbai
Tel: 0250-2391340, 2391341
Mobile: 09320161271, 09322161271
Email: highclean9@gmail.com

BOTTLE CLEANING MACHINE, VERTICAL AIR JET TYPE

Medi-Pack Process & Technologies is offering a quality array of automatic vertical air jet bottle cleaning machine.

Features:

- That comes in compact design finish as well as in stainless steel matt finish body finish for lasting service usage.
- This machine features AC motor based main drive and conveyor drive so as to provide for reliable and consistent performance.
- The machine is known for easy operations, adjustable and diving type cleaning nozzles, automatic loading and unloading of containers, high capacity blower for optimum cleaning support among others.
- Individual control for air pressure and vacuum cleaning; higher capacity blower to clean properly; SS pressure meter.

About the company: Medi-Pack Process & Technologies is a manufacturer, exporter and trader of supreme quality bottle capping machine, bottle filling machine, bottle labeling machine, bottle washing machine, etc.

Contact:
Medi-Pack Process & Technologies, Ahmedabad
Mobile: 09979929599
Email: info@medipackprocesstechnologies.com

ULTRASONIC STENCIL CLEANER

Leela Electronics offers ultrasonic stencil cleaner.

Features:

- Ultrasonic stencil cleaner uses hi-tech ultrasonic technology during the cleaning action; the ultrasonic stencil cleaner is used in electronic and other industries.
- These are highly efficient, easy to use and environment friendly stencil cleaners, exclusively for cleaning PCB stencils and related components.
- Module ultrasonic cleaning system is used to achieve the required cleaning without using conventional stencil cleaning methods.
- The ultrasonic stencil washing process permits penetration of minute crevices to remove solder paste, flux or SMD adhesives more efficiently than spray washing or hand-wiping and without the use of harmful solvents or aggressive chemicals
- Tough enough for dried-on paste, gentle enough for fine pitch screens, stencils, and misprints.

About the company: Leela Electronics (Leela Sonic) manufacturies ultrasonic cleaners since 2007.

Contact:
Leela Electronics, Mumbai
Tel: 0251-6515131, 2212928.
Mobile: 09820574207, 09920432521
Email: leelasonic@gmail.com, sales@leelaelectronics.in

COMPACT SCRUBBER DRIER

Saakar Sales & Services offers a wide range of compact scrubber drier.

Features:

- Emerges as a product that is high-on performance and comprises of well-tested design.
- It is suitable for drying of thermal sensitive materials easily resolved, polymerised or deteriorated under higher temperature.
- These products are made available at extremely affordable rates in the market and as per the set industry standards.
- Sterilisation can be conducted prior to the drying process, during which no matter is allowed to enter the product.
- Dial type vacuum gauge; multiple indicators; view glass/light glass provided.

About the company: Sakar Sales is a manufacturer and supplier of industrial cleaning machines. The products includes cleaning machines, automatic vacuum cleaner, floor scrubber drier, ride on sweeping machine, road sweeping machine, automatic high pressure cleaner, etc.

Contact:

Saakar Sales & Services, Surat
Mobile: 09375750505, 07567414141
Email: smart_cleaner@rediffmail.com

GEARS, GEAR COMPONENTS & ASSEMBLIES

Eppinger Tooling Asia offers a wide range of gears, gear components and assemblies.

Features:

- The product range consists of spiral bevel gear sets – 10 to 1 ratio dia 457 mm; 2 to 1 ratio dia 406 mm, module up to 12.7; 1 to 1 ratio dia 323 mm; hobbed gear dia 500 mm x 8 m; hardened and profile ground spur and helical gears dia 330 mm x 5 m; internal gears dia 152 mm x 3 m.
- Custom built/non-standard gears and gear assemblies also can be provided.
- Applications include machine tools, railways, textiles, automation, automotives, engineering, pumps, compressors, printing machines, etc.

About the company: Established in 1925 in Denkendorf, Germany, today Eppinger Tooling Asia Pvt Ltd is well equipped to offer a wide range of gear assemblies, gear components and high precision gears - both standard and custom built. State-of-the-art manufacturing and quality control facilities ensure top quality.

Contact:

Eppinger Tooling Asia Pvt Ltd, Coimbatore
Tel: 04259-304032/33/34 Mobile: 08870013053
Fax: 04259-304018
Email: marketing@eta-tools.com; eppinger@dataone.in

VERTICAL DRUM PALLET, VDP-1313

Stakall offers vertical drum pallet, VDP-1313.

Features:

- Designed to store 4 drums per pallet; stack-able up to 3 high Gr+2.
- Compatible with all types of MHE; 2 way entry for hand pallet trolley.
- 4 way entry for forklift and stacker; static load capacity – 3000 kg; dynamic load capacity – 1000 kg; colour – black and blue.
- These are lightweight low maintenance, durable, cost effective and above all of consistent quality.

About the company: From steel pellets to heavy duty boxes, from drum pallets to mini containers Stakall manufactures a wide range of storage solutions. The company provides solution in design concept or construction, sample produce or mass production. It also fabricates pallets from mild steel, stainless steel and aluminium. The user can choose the type of metal best suitable to their plant environment.

Contact:

Stakall, Distt Palghar
Mobile: 08600047373.
Email: marketing@stakall.in

METAL STEREOS FOR MARKING, BIG STAR

Compete Tools Pvt Ltd offers Metal Stereos under the brand Big Star among its superior range of marking products.

Features:

- These are interchangeable steel types and batch coding metal stereos. The Metal Stereos, made of high quality imported tool steel, have controlled shank dimensions with very close tolerances. The products are scientifically heat-treated for longer life.
- It is also plated for rust prevention and for linger time storage. Special Metal Stereos are also available in dotted, low stress, reverse convex or concave variations. Large characters in Metal Stereos can also be made for different sizes. There are also hot types available wherever high temperature applications are needed. The products are available on round surface or flat surface and are totally tamper-proof.
- These Metal Stereos find wide applications in pharmaceutical and packaging industry. In packing, the applications include tube crimping, blister packing, carton coding, tetra pack, FPS, sachets and cardboard packing. Besides, special varieties for transmission towers marking are also available.

About the company: Compete Tools Pvt Ltd has been meeting the marking tool requirements of various industries since 1978.

Contact:

Compete Tools Pvt Ltd, Thane (W)
Tel: 022-25346203. Email: customersupport@competetool.co.in

PERMANENT MAGNETIC LIFTER

Daksha International offers a wide range of permanent magnetic lifter with Damar Brand.

Features:

- Damar brand permanent magnetic lifter can be used in a variety of industries for the transportation and lifting of steel, engine parts, semi manufactured goods and moulds. Due to its magnetic force there is no need to use slings, clamps, or other holding devices eliminating damage to the surface of lifted goods.
- The Magnetic Lifter's highest pulling force is 3.5 times greater than the rared lifting capability. Light weight, ranging from 100 – 5000 kg.
- It is safe, no electricity is needed to operate the magnetic lifter, once operated there is less than 1 per cent residual magnetism.
- The simple switch and safety button design allows for one handed operation. Larger sizes available, output upto 6000kg. Its to determine the right type of Magnetic Lifter for your application.
- The capacity of the lifting magnet is determined by the thickness and surface quality of the component.

About the company: Daksha International is a dealer of core cutters and material handling items.

Contact:

Daksha International , Mumbai
Mobile: 09323152244. Email: cordialm@gmail.com

REVERSIBLE HAMMER CRUSHER

Masyc Projects offers reversible hammer crusher.

Features:

- It has the unique design feature such as welded casing, screwed liner with high carbon steel plates, hammer heads made of chrome alloy cast steel or manganese steel depending upon the application.
- Rotor shaft is made out of forged steel, hammer grinding path with wear resistant plates which are mechanically/hydraulically adjustable and dust proof spherical roller bearing.
- It crushes material in two stages i.e. initially the material is reduced by impact between hammer and material followed by scrubbing action (attrition) against breaker plate; Masyc reversible hammer mill is used for hard coal, lignite, cooking coal, lime stone, gypsum and other soft and medium hard material
- These mills are rugged in structural, design and easy to maintain, having high throughput and low wear.

About the company: "Masyc" an ISO 9001:2000 company specialises in the field of bulk material handling system, conveyor equipment, crushers and screens, etc.

Contact:

MMasyc Projects Pvt Ltd, New Delhi
Tel: 011-28115453 Fax: 011-28116850
Email: masyc@masycproject.com

PID TEMPERATURE HUMIDITY CONTROLLER FOR AHU, MODEL-AHU-948

Libratherm offers PID controller, model AHU-948 for controlling temperature (T) and relative humidity (Rh) for the AHU and other similar HVAC applications.

Features:

- It is microcontroller based design; designed for HVAC/ AHU/DHU control application.
- It accepts direct input from T + Rh transmitter; PID/ On-Off Control output in the form of 4-20mA/0-10VDC.
- Accurate monitoring of T and Rh value of Process and Reactivated Air being delivered to the room or the hall.
- Accurate control of devices like 2 way or 3 way hot/ cold valves/damper Actuators, heaters to maintain the T and Rh in the Air flow processed by the AHU systems.
- It is RS485 serial port is available for interfacing to DCS or PLC or BMS.

About the company: Libratherm is engaged in manufacturing of electronic process control instruments.

Contact:

Libratherm Instruments Pvt Ltd, Mumbai
Tel: 022-42555333 Mobile: 09870011544
Email: sales@libratherm.com

INDUSTRIAL HEADS AND ACCESSORIES

Zenith Industrial Products offers industrial heads and accessories like Hex socket type, square hd and hex hd type, BSP straight, tapper plug, BSPT, NPT, NPTF, MM size, hex hd washers faced collar plug, hex socket type Allen plug, BSP copper washers, BSP hex nut, BSP/BSPT 1/8 to 1.1/2", NPT/NPTF 1/16 to 1.1/2" mm size 5 to 48 mm dia.

Features:

- It can be supplied as per IS, DIN, ASTM, JIS and GOST standards or as per party's samples or drawings.
- Threads: BSP, BSPT, NPT, NPTF, MM size, standard coarse and fine pitch.
- Material's grades: M.S., EN - 8, 8.8GR, EN - 19, 10.9GR, brass, aluminum SS 304 - 316 and 410, HTS, RSTV grade.
- These items are used at engineering industries, machine tools, automobiles, hydraulic, pneumatic, pump and valve, etc. and such other various industries.

About the company: ABC industrial fasteners is a manufacturer and supplier of industrial fasteners. The application areas include light to heavy engineering industries, electrical and electronics, telecom, automobiles, fertilizers and chemicals, air conditions, etc.

Contact:

Zenith Industrial Products, Mumbai
Tel: 022-28470806. Email: zenith@zip-india.com

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www.avconcontrols.com

R Star Series Ad10/12-2018

SAFETY PULL CORD SWITCH

Smart Sensors And Automations offers new and advanced range of safety pull cord switches.

Features:

- The switch works actuates contact when rope is pulled. The switch also actuates when rope is broken, slack. The switch provided with reset button for local reset.
- Single switch for long conveyors up to 160 Mtrs against multiple numbers of conventional switches. Its features include robust design, enclosure, totally sealed IP 67, optional LED indicator, compatible to EN418 norms and confirms to EN60947-5-5, IEC60947-5-1. It is available in Single side operation or both side operations.
- The rope is to be hooked around the work area and at convenient height such that the operator will find is convenient to pull when in an emergency by using turn buckle, spring and thimbles. The switch resets when rest push button on switch is pressed. Single side operation (left or right side) as well as both side operation options are available. Special switches with rope break indication contact are also available. LED indication lamp can be provided for remote indication.

About the company: Smart Sensors And Automations (SMARTsaa) is leading supplier of proximity switches, special sensors, safety switches, level switches, etc.

Contact:

Smart Sensors And Automations, Pune
Mobile: 07028376392. Email: sales@smartsaa.com

DBAN PRO COMPACT BREATHALYSER

Subtronics (India) has developed a digital compact hand held breathalyser which enables the user to check if the subject has consumed alcohol.

Features:

- The DBAn Pro does not require any physical contact with the subject, thus saving recurring cost of mouthpiece; its registered 'Three Status' technology makes it extremely easy for the user to take decision on the intoxication of the subject.
- The instantaneous checks have the facility to lock and hold the maximum value of the subject's alcohol levels, thus enabling a subordinate to show it to his superiors and take appropriate action.
- It is ideal for use in applications which involves sudden alcohol checks or entry and exit checks.

About the company: Subtronics (India) Pvt Ltd is a manufacturer of gas detection systems for over 300 gases and other safety equipment covering a range of applications.

Contact:

Subtronics (India) Pvt Ltd, Mumbai
Tel: 022-24224461, 2430 3047
Mobile: 09920821346.
Email: service@subtronicsindia.com

IMAFLEXXIE™ - PTFE LINED WITH SS 304 BRAIDING

Ami Polymer Pvt Ltd offers a wide range of PTFE lined with SS 304 braiding, covered with platinum cured silicone.

Features:

- Imaflexxie™ is PTFE tubing covered with SS 304 braid reinforcement having outer layer of platinum grade silicone, with capacity to withstand high pressure along with greater chemical resistance.
- The product has ultra-smooth bore which enhances superior flow properties and ensures least adhesion to particulates; the outer layer of silicone cover acts as insulation to high temperature and keeps outer surfaces dust free.
- Imaflexxie™ conforms to US FDA 21 CFR 117.2600 Food Grade Standard, USP Class VI and ISO 10993-1; it is certified by ROHS and Animal Origin Certification (free of animal derived material), free of restricted heavy metals.
- It is free of phthalate/bisphenol/volatile plasticizer; it has USFDA DMF accreditation #26201; complete validation package available upon request.
- Imaflexxie has excellent chemical resistance; it permits easy cleaning; its smooth silicone cover provides safety to operator while handling high temperature; it prevents operator from injury due to frayed SS braids.
- Its temperature range is -80 °C TO 230°C; available with SS316 L Tri-Clover end; sterilisable by Autoclave.

About the company: Ami Polymer Pvt manufactures and supplies silicon rubber products, mechanical seals, etc.

Contact:

Ami Polymer Pvt Ltd, Thane
Mobile: 08691013935. Email: mktg@amipolymer.com

EXTRUDER GEARBOXES

Sudarshan Gears offers a wide range of extruder gearboxes.

Features:

- Extruder gearboxes with tooth profile ground gears imported ZKL original thrust bearings, C-D- 90, 100, 140,160, 180, 200, 225, 250, 3mm
- Long life, compact structure, high efficiency
- Specifications include: input speed: 1500 rpm, output Speed: 8-20 rpm and rated Power: 5.5-540 kW

About the company: Established in 1985, Sudarshan Gears has German trained and qualified engineers for design, development and import substitution. It is an ISO 9001-2000 certified company with the latest full designed machining assembly and testing facility.

Contact:

Sudarshan Gears, Thane
Tel: 022-28455991/65065990/65665990
Fax: 022-28455982
Email: enquiry@sudarshangears.com

DIGITAL HIGH VOLTAGE INSULATION RESISTANCE TESTER

Kusam-Meco introduces a new digital high voltage insulation resistance tester model KM 2803-IN.

Features:

- This meter is used for measuring insulation resistance in EHV circuits. This meter is microprocessor controlled with advanced safety features & this meter can measure insulation resistance at 0.5 KV, 1KV, 2.5KV, 5KV (DC) voltage with insulation resistance 0 - 25 GΩ, 0 - 50 GΩ, 0 – 125 GΩ, 0-250 GΩ range respectively.
- The measuring accuracy is ± 5%. This meter gives audible and visual warning if external voltage is present, thereby preventing damage to the meter.
- The instrument has real-time bar graph to display the test voltage & voltage decay during discharge. The meter has large LCD display. It also show test time duration (up to 99.9s) for easy comparison.
- It meets safety standard IEC 1010-1 CAT III. This meter is compact & lightweight. Dimensions are 170 (L) x 120(W) x 95(D) & weight is 930 gm approximately. This meter's power supply is 1.5 volts x 8 batteries.

  About the company: Kusam Electrical Industries Ltd markets electronic test & measuring instruments.

Contact:

Kusam Electrical Industries Ltd, Mumbai
Tel: 022-24156638. Email: kusam_meco@vsnl.net

ELECTRIC LIFTING PLATFORM

Jay Equipment & Systems Pvt Ltd offers electric lifting platform.

Features:

- Electric lifting platform are for exclusive handling only and no persons are allowed to travel the lift cage/platform.
- The electric lifting platform is very useful to transfer goods from one floor to another floor and the platform can be flushed with floor level when pit installed.
- Ideal for stores and mezzanine area to transport material from one floor to another in a multi-level complex.
- ELP-10 design is offered with a single hydraulic cylinder. Hydraulic power pack with AC motor control panel and pendent stations form control function of the lift. It is suited for weighted application up to 1000 kgs & lift ht up to 10,000 mm.

About the company: Jay, is a manufacturer of intelligent and innovative storage solutions for wide range industry applications. Jay storage solution includes various types of pallet racking systems, shelving systems, and automated warehouses for any industry or distribution sector such as food, automobile, chemicals, etc.

Contact:

Jay Equipment & Systems Pvt Ltd, Dist Palghar
Tel: 09146054222/23/24/25
Email: sales@jayequipment.com

DOCK LEVELERS

Gandhi Automations offers a wide range of dock levelers.

Features:

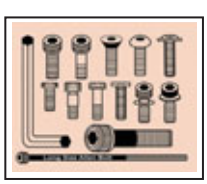
- Electro-hydraulic dock levelers facilitate fast, smooth and safe transition by compensating the difference in heights between the loading bay and the vehicle.
- Dock levelers are designed as per EN 1398 standard for the most demanding loading and unloading operations.
- Loading and unloading with lesser effort and minimal cost; equipped with secure safety devices and accessories.
- Radius lip dock levelers allow the dock to connect with the truck bed, thus making it possible to drive directly on and off with forklift trucks etc.
- Telescopic lip dock levelers are ideal for connecting vehicles unable to drive near dock, ie sea containers, side loading railway wagons etc; these types can be supplied with a lip extending up to 1 m.

About the company: Gandhi Automations Pvt Ltd manufactures, imports, distributes and installs entrance automation systems and loading bay equipment.

Contact:

Gandhi Automations Pvt Ltd, Mumbai
Tel: 022-66720200, 66720300
Email: sales@geapl.co.in

INDUSTRIAL HEADS



ABC industrial fasteners offers industrial heads like hex socket type Allen bolt, standard head, CSK head, button head, low head, shoulder head, washers forged, thin head, washers fitted, oval head and raised.

Features:

- Standard reference: it can be supplied as per IS, BS, DIN, ISO, ASTM standards.
- Threads: mm size standard coarse and fine pitch, BSW, BSF, UNC, UNF, BA and No. size - 4 to 12 no., NC/NF and BSP threads.
- Material's grades: EN - 8, 8.8GR, EN - 19, 10.9GR, EN - 24, 12.9GR, SS 304 - 316 and 410.
- These items are used at machine tool industries, automobiles, textiles, hydraulic, pneumatic, plastic injection molding machine plants, etc. and such other various industries.

About the company: Established in the year 2000, ABC industrial fasteners is a manufacturer and supplier of industrial fasteners. The application areas includes light to heavy engineering industries, electrical and electronics, telecom, automobiles, fertilizers and chemicals, air - condition and refrigeration, cement, sugar, machine tools, packaging, textile, pharmaceutical, etc.

Contact:

ABC industrial fasteners, Mumbai
Tel: 022-28470806. Email: zenith@zip-india.com

PIPE CHAMFERING MACHINE

Hydropower Engineering Systems offers pipe chamfering machine.

Features:

- This machine is designed for edge preparation of pipes. The machine can simultaneously carry out facing and chamfering operation.
- This machine is equipped with pneumatic clamping system and multi tool holding device. This job is stationery and cutting operation is performed by rotating tool.
- The machine also has AC variable frequency drive for selection of infinite cutting speed. Cutting feed rate is controlled manually. Optional hydraulic/pneumatic feeding can be given.
- Specifications of this product are maximum diameter of the job is 101.6 mm; minimum diameter of the job is 38.1 mm; RPM range is 45 to 350 RPM; and maximum power consumption is of 5 HP.

About the company: Hydropower Engineering Systems is engaged in design and manufacturing services of hydraulic equipment and machinery. Established in 1996, it is a manufacturer of cable crimping machine, de-coiling cum straightening machine, hydraulic press, hydraulic scissor lift and hydraulic and pneumatic machines.

Contact:

Hydropower Engineering Systems, Bangalore
Mobile: 984513451. Email: info@hydropowerengineers.com

WIRELESS GAS DETECTOR, WGD 100 SERIES

Ambetronics offers a wide range of wireless gas detector, WGD 100 Series.

Features:

- The gas detector uses electrochemical/ catalytic Pellistor/ NDIR/ PID gas sensors that effectively detects the smallest leakage on gas pipelines, tank farms, oil and gas industries, etc.
- With an accuracy of ± 5 % of full scale, the detectors are capable of detecting the gas concentrations with a response time of less than 30 secs.
- The most unique point of these detectors is that they can be powered using solar panel.
- The WGD 100 gas detectors are wirelessly connected to control unit (WCU 100 model) that enables remote real time monitoring of gases concentration at the concerned site.
- The GSM module also enables daily SMS notifications at fixed time intervals for indicating battery percentage, status of the device, fault condition, GSM network status and sensor readings with alarms.
- The WGD 100 wireless gas detectors can be used to detect toxic, combustible or asphyxiant gases.
- The weatherproof (IP 65 compliant) and flameproof (IP 66 for gas gr. IIC) enclosure of the WGD 100 gas detectors makes it suitable to be used at any hazardous locations.
- As the need for wired connection is eliminated, the installation and maintenance of wireless gas detector is much cost effective and time saving.
- The key features of wireless gas detectors are: reliable gas detection: accuracy: ± 5 % of full scale with sensor accuracy; response time: < 30 secs;
- Resolution: 1, 0.1, 0.01; Long Lasting: up-to 8 years of sensor life; affordable: as the product is "Make in India" compliant the pricing is affordable compared to import prices.

About the company: Established in 1992 as a small unit manufacturing digital panel meters and digital gas detectors and indicators, it has now established itself as a manufacturer, supplier and exporter of electronics equipment in the fields of human safety like gas detection and monitoring systems along with other industrial process automation and integration systems. It is an ISO 9001: 2015 certified global company in the field of gas detection systems, process control instrument systems, data acquisition software systems, cold chain storage, clean room monitoring and vibration monitoring systems.

Contact:

Ambetronics Engineers Pvt Ltd, Mumbai
Tel: 022-61673000, 66995525, 28371143
Fax: 022-28226570
Email: sales11@ambetronics.com

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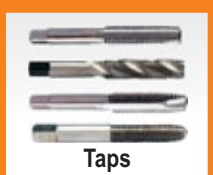
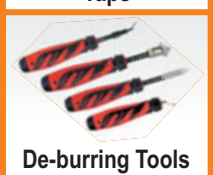

Taps

Turnmax

HSS & Carbide End Mills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FEATURED PRODUCT

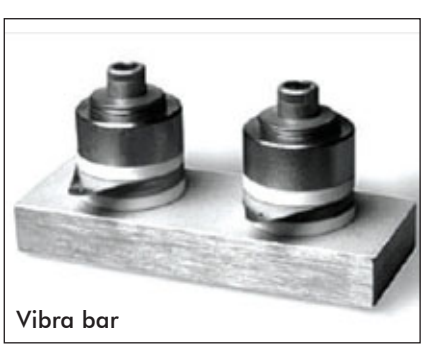
Metal part cleaning systems

Crest Ultrasonics offers innovative and advanced cleaning solutions for automotive industry.

Metal parts cleaning, like most metalworking processes, is experiencing ever-tightening specifications. Owing to the constantly increasing requirements in terms of efficiency, quality and environmental protection the cleaning of industrial parts has become absolutely essential in modern manufacturing processes. It is highly critical especially in case of automotive components, aerospace parts and medical implants.

Crest Ultrasonics offers the right solution in metal part cleaning to achieve the required cleanliness level with consistency, without spoiling environment. Having the latest technology with several patents and innovation in ultrasonic cleaning technology, the lab versed with sophisticated equipment to understand and measure the contamination, as well as to find out the suitable process along equipment, Crest understands customer requirement precisely and suggests the most suitable system (as per Millipore standards or Particle counts), maintaining zero rejection level along higher productivity.

Tank, genesis generator and immersible transducers



Vibra bar

Aqueous based 4 or 5-station cleaning systems

The 4-station wash-rinse-rinse-dry is ideal for cleaning at the microscopic level. The 5-station wash-wash-rinse-rinse-dry system is configured for dual process or semi-aqueous precision cleaning applications.

Standard tanks sizes (for manual and automated consoles) range from 10″ (L) x 14″ (W) x 10″ (D) to 24″ (L) x 36″ (W) x 20″ (D). Custom tank sizes are also available. The Crest Ultrasonics Optimum Console is a cost-effective, highly flexible solution for all industrial precision cleaning applications. Engineered with a compact, space-saving design and rugged, stainless steel tubular frame, it offers the convenience of an all-in-one, wash-rinse-dry design with a single-point facility connection for easy installation.

> The Crest Ultrasonics Optimum Console is a cost-effective, highly flexible solution for all industrial precision cleaning applications.

Solvent-based precise cleaning system

Crest solvent-based precise cleaning systems are passed from pollution board in California and known for negligible solvent emission with small footprint, less energy consumption and inbuilt refrigeration.

Model F-100-1010 consumes hardly one litre solvent per week and electrical energy consumption is hardly 2-3 kW only.

Push pull resonator

Ultrasonic immersion box: Rectangular immersion box can create ultrasonic energy in an existing cleaning solution tank. Crest ceramically enhanced transducers with true sweep technology ensures consistency in cleaning with long life.

Push pull resonator transducers: These patented solid resonators are great invention in transducer technology. It is solid rod transducer which can be immersed in any liquid tank. These transducers can't get puncture or leak as these are solid rod transducers.

Crest Ultrasonics can offer variety, small bench top models to large 100,000 litre tanks and aqueous/solvent-based with 25 kHz, 40 kHz, 68 kHz....132 kHz,198 kHz.....1 MHz frequency. IPF

(Communication provided by the management of the company)

ENERGY SAVING VALVES

Mercury Pneumatics has designed and developed a range of energy saving valves for pneumatic applications.

Features:

- These valves can be used in air blow guns and larger bore pneumatic cylinders for reducing air consumed by these products thus saving energy and reducing operating costs of an organisation.
- The ESB model for air blow guns are lightweight products which fit directly on the blow gun and regulate the air pressure so that a fixed pressure is given to do work irrespective of the line pressure.
- This ensures that there is no wastage of air and thus saves close to 40% of the energy currently consumed by a regular air blow gun. The ES2 and ES4 models are designed for pneumatic cylinders wherin the product regulates the pressure in the return stroke of the cylinder and that is the low force stage of the cycle.
- This ensures that you are not generating more force than required thus saving energy in the process.

About the company: Mercury pneumatics Pvt Ltd is a manufacturer and supplier of pneumatic valves, pneumatic cylinders, air preparation units, etc.

Contact:

Mercury pneumatics Pvt Ltd, Mumbai
Tel: 022-40344200. Email: mercurypneumatics@vsnl.net

SILICONE RUBBER

Rane Elastomer Processors offers Silicone Rubber.

Features:

- Silicone rubber retains its physical organic elastomers particularly when subjected to extremely low or high temperatures; it solves design problems that demand elastomers to stay rubber after long exposures of high temperatures.
- Good tensile strength at elevated temperatures in comparison to organic rubber silicone rubber retains a much greater percentage of its room temperature tensile strength at high temperatures; good elongation characteristics, ultimate value range to 700%.
- Wide range of hardness 15 to 80 Durometer; the designer is free to select the desired hardness that best fits a specific function; good tear strength – up to 250 ppi and resistance to tear propagation; excellent resistance to compression set at elevated temperatures up to 200°C.
- Good resilience – quick recovery after deflection; electrically, long-term aging at high temperatures produces only minimal change in properties; and dielectric stability is relatively unaffected by frequent or extreme temperature fluctuations.
- Because silicone rubber retains its physical integrity in environmental extremes, electrical failures due to cracked insulation are sharply reduced.

About the company: Rane Elastomer Processors is a manufacturer and exporter of rubber products like dock fenders, silicone rubber products, sheets, profile, tubing, mounting and other moulded rubber products.

Contact:

Rane Elastomer Processors, Mumbai
Tel: 022-28488241. Email: info@ranelast.com

SNOUT END BINS

Stakall offers a wide range of snout end bins.

Features:

- Suitable for storing of articles of very small in size.
- Lightweight yet sturdy design; ideal for use on the assembly lines.
- Self stackable; carrying capacity up to 30 kg; colour – blue / yellow

About the company: Stakall manufactures a wide range of storage solutions, from steel pellets to heavy duty boxes and from drum pallets to mini containers. The company provides solutions in design concept or construction, sample produce or mass production. It also fabricates pallets from mild steel, stainless steel and aluminium; the user can choose the type of metal best suitable to their plant environment.

Contact:

Stakall, Palghar
Mobile: 08600047373 Email: marketing@stakall.in

VIBRATING TABLE

Good Earth Engg Industries offers vibrating tables.

Features:

- The major uses are in: consolidation of concrete, foundry shake-out, weighing and filling systems, packaging, spray lubrication transfer system in cement industry, etc.
- Vibrant vibrating tables are available in two types: electro magnetic and electro mechanical; the choice of proper type depends on the characteristics of the material being handled, the maximum weight, the actual application, etc.
- Electro magnetic type table vibrators vibrate at 3000 VPM and have low amplitude of vibration whereas electro mechanical type table vibrators have low frequency of vibration and higher amplitude.
- A variety of models are manufactured in different sizes and capacities for different applications, for handling weight from few kg to about 5 tonne over table top; variable frequency vibrating tables and vibration simulator tables can also be manufactured as per given requirements.

About the company: Good Earth Engg Industries is an exporter, manufacturer and supplier of vibration simulation machines, vibration simulators, etc.

Contact:

Good Earth Engg Industries, Mumbai
Tel: 022-28320061. Email: flextool@gmail.com

SOUND LEVEL METER

ACD Machine Control Company offers sound level meter that provides the essential basic instrument for sound investigations.

Features:

- It measures, on an internationally standardised decibel scale, the value of the alternating pressure waves of the air which are caused by the sound.
- ACD is making available instrument 'S-3000' which confirms to the requirement of 'Type-2' instrument as per IS 9779-1981.
- Other features are 40 db to 140 db range; A and C weightage; regular logging of this parameter provides early warning of breakdown; offered as portable instruments for individual parameters as well as an integrated meter; long operational life; trouble-free functionality; rugged design.

About the company: ACD Machine Control Company Pvt Ltd is a manufacturer and wholesaler of a qualitative assortment of air velocity monitoring, field failure relay, dynamic balancing equipment, etc.

Contact:

ACD Machine Control Company Pvt Ltd, Mumbai
Tel: 022-66921091, 66921092, 28323676
Fax: 91-22-28221736
Email: info@acdmachines.com, acd@vsnl.com

PORTABLE RAILCAR VIBRATOR, HCP

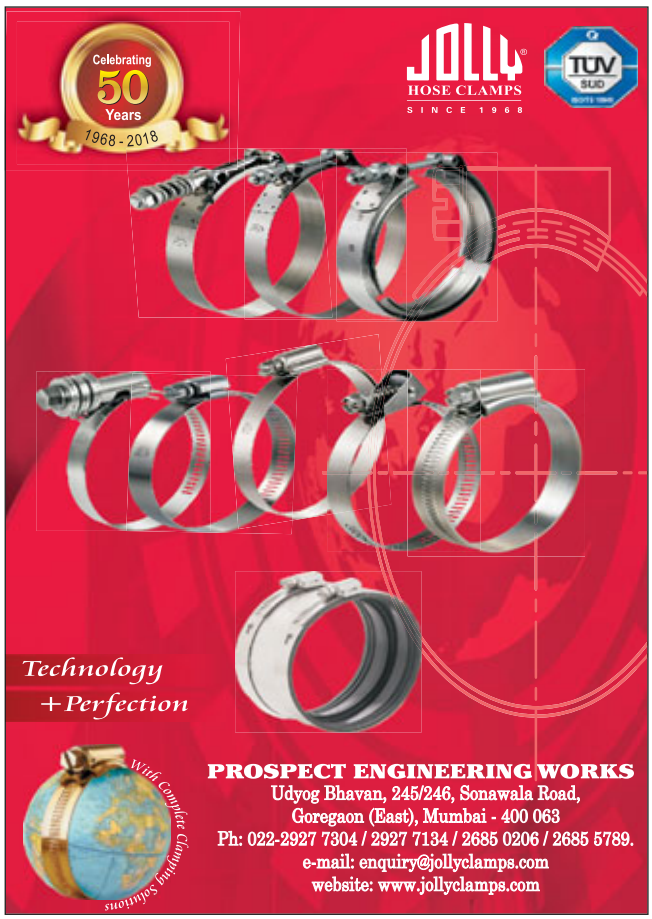
NAVCO India LLP offers a complete line of portable pneumatic hopper car vibrators for railcar and other portable industrial applications.

Features:

- The NAVCO HCP railcar vibrator is designed to provide portable, reliable and effective performance in difficult applications and environments.
- The NAVCO HCP ensures railcar unloading is an efficient and safe process; all HCP units come standard with Teflon coating on all internal surfaces – providing optimum service life.
- Rugged mounting head fits all dovetail brackets; and faster unloading of even the most stubborn material; the exclusive 'free ride' design is the most efficient means to transmit vibration energy.
- Benefits: minimises unloading time while significantly reducing material carryback; low air consumption results in utility savings over comparable products; reduces material build up at the opening of the railcar.
- Eliminates damage inflicted to railcars by sledge hammering and increases personnel safety.

About the company: NAVCO India LLP manufactures pneumatic import substitute products since 1982.

Contact:
NAVCO India LLP C/o KJN Enterprises, Mumbai
Tel: 022-28342079. Email: sales@navcoindia.com



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Electro Mechanical Relay

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Panel Accessories

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Phone No.: +91-80-2720 4213, Mobile: +91-9480692726, Fax: +91-80-2836 1335

HOMOGENISER, HIGH SPEED

Sahyog Enterprise developed Cyclone brand high speed homogeniser/ disperser can be used for high speed dispersion, homogenisation of high viscous liquid or pasty material.

Features:

- The mixing shaft is supported by heavy-duty bearing housing and Teflon bush at the bottom for vibration free performance; tie bars are also provided for extra rigidity and trouble free performance; the homogeniser is complete with standard electric motor – 3-phase 220 V, 380 V – and flame proof construction is available as per requirement.
- The contact parts are manufactured from SS 304/SS 316/SS 316L construction as per requirement; high speed homogenisers can be manufactured as per GMP norms for pharmaceuticals or bio applications; two different speeds are available – 2800 and 1400 RPM – for various applications and volume.
- Different types of impeller like saw tooth cutter and stator-rotor are used for various dispersing applications; different mounting arrangements like flange mount, hanger mount are available; the mixers can be mounted on specially designed heavy-duty fabricated lifting lowering stand for ease of operation.
- The homogenisers find applications in various industries.

About the company: Sahyog Enterprise manufactures geared drive liquid mixers, direct drive liquid mixers, etc.

Contact:
Sahyog Enterprise, Mumbai
Tel: 022-28200559. Email: flextool@gmail.com

ABSOLUTE ENCODER

P G Electronics offers a wide range of absolute encoder.

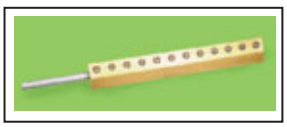
Features:

- Absolute Single turn Encoders up to 13 bits
- These Encoders have various output codes like parallel-gray, binary and serial SSI as well as analog modes
- Additional features like latch, F/R and reset are available to user; economical encoders ENA 8- up to 8 bits are meant for low resolution requirements.
- They are ideal for applications like radar antenna, solar-mirror-concentrators, robotics, crane, gate or level indicators.

About the company: Established in 1981, PG Electronics is engaged in manufacture of inductive, capacitive sensors, wide range of shaft encoders. With constant technology update the firm now makes incremental encoders up to 10000 ppr and Absolute Encoders up to 13 Bits.

Contact:
P G Electronics, Mumbai
Tel: 022- 26763587, 26763831, 66943788.
Email: info@pgelectronics.net, pgelec1981@yahoo.co.in

SILENT AIR KNIFE



KJN Enterprises offers a silent air knife.

Features:

- This compressed air knife finds wide range of applications in many industries particularly to replace drilled pipe, or rows of nozzles used for blow-off, cleaning, drying or cooling.
- The silent air knife produces a 'laminar' flow of air along its length using the 'Coanda' effect which 'entrains' a large volume of air from the surrounding area along with the small amount of compressed air from the silent air knife to produce an output flow up to 30 times.
- This helps reduce both compressed air consumption and noise levels compared to drilled pipes or rows of nozzles; payback on compressed air savings can be as soon as a few weeks in some applications.
- Used for automotive, bottling, chemicals, food; control application of some materials to the food product such as sugar, icing, etc; and open pouches in bagging operations, dry food.

About the company: KJN Enterprises is a manufacturer, supplier, trading company of air blow gun, FRL unit and pneumatic filter.

Contact:
KJN Enterprises, Mumbai
Tel: 022-28342079. Email: info@kjnenterprises.com

AIR BOOSTERS

Mercury Pneumatics offers air boosters.

Features:

- Mercury's air booster is an indigenous product designed to be a compact, portable, efficient and low cost solution for boosting shop compressed air pressure by 2, 3 or 7 times.
- Cyclic pressure/life testing of pressure gauges, pressure switches, hoses, etc; burst strength testing of pressurised vessels such as LPG/nitrogen/oxygen gas cylinders, storage tanks, hoses, pipes, etc.
- Seat leakage test of control valves; operation of pneumatic cylinders, clamps, etc. for applications where limited quantity of high pressure air is required; portable source of compressed air at pressure higher than plant pressure
- Easy servicing; cost sawing as it eliminates requirement of a high pressure compressor.

About the company: Mercury Pneumatics Pvt Ltd, commenced producing pneumatic products in 1980. The product range consists of pneumatic cylinders, hydro-pneumatic presses, hydro-pneumatic pump and special products for OEM applications.

Contact:
Mercury Pneumatics Pvt Ltd, Mumbai
Tel: 022-40344200
Email: mercurypneumatics@vsnl.net

GROUND WORM SHAFTS

Malkar Industries offers ground worm shafts in any steel, ferrous or non-ferrous material.

Features:

- It has in-house manufacturing facility for profile grinding of worm shafts on WMW, Matrix and Reishauer thread grinding machine. It can offer ground worms in bulk quantity due to large number of thread grinding machines.
- Profile ground worms are the most accurate worm profiles compared to hobbing or milling or thread whirling process. Capacity: diameter – up to 300 mm, module up to 25 module, length 500 mm, lead up to 200 mm and number of starts – 10.
- Apart from ground worms, the company also manufactures lead screws, knurling tools, thread rolls, spur and helical gears, worm and worm wheels, serration cutters, hob cutters, ground gears, etc.

About the company: Malkar Industries manufactures precision gears and allied items, and has achieved a name for quality essential in precision gearing for gearboxes, actuators, wiper motor fans, instruments, etc.

Contact:

Malkar Industries, Navi Mumbai
Tel: 022-27612404
Email: malkar.samir@gmail.com, sales@malkargears.com

ProMinent
Sensors & Controllers

ProMinent Sensors and Controllers are available for measurement and control of various parameters like pH, ORP, Conductivity, Chlorine, Chlorine-di-oxide, Ozone, Hydrogen-Peroxide, Dissolved Oxygen, Paracitic Acid, Fluoride, etc.

The controllers can be connected to Prominent Dosing Pumps where required, to be able to maintain the required levels of the parameters. The controllers can emit pulse or 4-20mA signals which can be accepted by Dosing pumps to adjust the addition of the required chemicals with the system.

For further details please contact:
Heidelberg ProMinent Fluid Controls India Pvt. Ltd.
(Fully Owned Subsidiary of ProMinent GmbH, Germany)
2/2, MES Road, Yeshwanthpur, Bangalore - 560 022
Tel: 00 91 80 23578872 / 73 / 74 / 23370730 / 23374954
Fax: 00 91 80 23477984 / 23573743
E-mail : prominent@hpfcindia.com Website: www.prominentindia.com

ProMinent

DIGITAL ANALOG CONTROL SOLID STATE RELAYS

Satronix offers a wide range of digital analog control solid state relays with special embedded features.

Features:

- Microcontroller based Phase Angle Control (Proportional Controller) 0-100% Linear; burst fire control; soft start/soft stop; status monitoring; control input of either 4-20ma built-in vcc or 0-10vdc external vcc of 5 - 32 vdc required or external potentiometer, varying the control input linearly varies the ac output power from 25-530 vac. models of 25a, 50a, 90a thyristor based.
- A control input of 4mA or 0VDC corresponds to zero output power whereas a control input of 20 mA or 10VDC corresponds to full output power (0-100% Linear).
- The phase angle controller varies the firing angle on the output SCRs proportionally to an analog control signal, effectively varying the power delivered to the output load.
- It is frequency 50 Hz to 60 Hz. These Control relays can provide added flexibility and reliability to your application with all the known benefits provided by the use of solid state switching technology. Offering precise power control suitable for numerous Factory Automation applications our relay can reliably control resistive loads like heaters, lighting and slightly inductive loads.
- The relay can also be used for soft turn-on of high-power incandescent lamps The analog series is ideal for temperature control, tungsten lamp dimming and universal motor control too.

About the company: Satronix is a manufacturer for solid state relays and digital scr power controllers, digital pfc thyristorised modules, etc.

Contact:

Satronix (I) Private Limited, Mumbai
Mobile: 09820143488. Email: satronix@gmail.com

BOX FILTERS

Pioneer Filters offers a wide range of box filters.

Features:

- These are normal box type air filters produced in large quantities as these can be fitted to a range of blowers.
- The finish is silver ash and the filter media is again based on the application.
- These filters also have long life and the cartridges inside can be replaced easily after usage with a new one without changing the frame thereby saving time and money.

About the company: Pioneer Filters manufactures air filters for trucks.

Contact:

Pioneer Filters, Bangalore
Mobile: 0973113774. Email: raghu@pioneerfilters.in

PIV GEAR BOX

Britex Industries offers a wide range of PIV gear box.

Features:

- It has been manufacturing PIV (positive infinite variable) gearboxes for variable speed applications for the past forty years.
- These gearboxes have today replaced German make PIVs not only in India but also in countries such as Australia, South Africa and the Middle East.
- These also provide spares such as PIV chains, cones, shoe brackets, etc., along with torque limiters for safety purposes.

About the company: Britex Industries in 1958 for manufacturing machine tools accessories such as PIV Gearbox, precious machine tools in 1965 for manufacturing a broader, more speciliased spectrum spares such as whole range of couplings pulleys, sprockets, reduction gearbox etc. It also undertakes repairs and servicing of PIV gearboxes of any make.

Contact:

Britex Industries
Tel: 022-22844307, 22871995 Fax: 022-22873597
Email:info@wiperdrive.com

PROGRAMMABLE CONTROLLERS

Rechner Automation Systems Pvt Ltd offers a wide range of programmable controllers sourced from global manufacturers.

Features:

- It provides various ranges of programmable controllers to suit individual requirement and specifications of the plant, including: high range PLCs, mid range module PLCs, micro PLCs, logic modules, soft PLCs, motion controllers, failsafe PLCs, and redundant PLCs.
- These range includes: Siemens – Simatic S7-200, Simatic S7-300, Simatic S7-400 and WinAC; Allen Bradley – Pico Controllers, Micrologix, SLC 500 system and PLC 5 system; GE FANUC – Versamax Series 90-30, Series 90-70, RXR3i PacSystem and RX7i PacSystem; Schneider – Modicon M340, Modicon Premium and Modicon Quantum; and ABB – AC 500, AC 300, S 500 and AC31.

About the company: Rechner Automation Systems Pvt Ltd sets standards with its innovative methodologies in control and instrumentation solutions. The company has clearly steered miles ahead in the field of industrial automation, setting standards, providing total automation solutions based on the needs of the industry trends at the right time and is one of the leading system integrators.

Contact:

Rechner Automation Systems Pvt Ltd, Mumbai
Tel: 022-24057880, 24054012 Email: rechner@vsnl.in

COBALT DRILLS

Orient Hardware & Tools Corporation offers a wide range of "Cobalt Drills" with brand Soyer.

Features:

- It is 5% cobalt drill bits gives high heat and wear resistance. Alloyed with Cobalt to improve heat resistance which will perform and outlast normal HSS bits particularly if your work involves tough metals.
- It can be used on hand drill, pillar and CNC machines. Wedged centre point eliminates need for centering. Material: HSS-Co M35 , 5% cobalt HSS. Its sizes are available from 1 to 13mm.
- These product applications: include cobalt bits are also superior for their resistance to heat and hence can be used on tough and hard jobs. They are ideal when used to drill stainless steel, titanium and even cast iron.

About the company: Orient Hardware and Tools Corporation is one of the largest tool stores in India and authorized distributors & for most of the renowned brands in the field of tools and equipments.

Contact:

Orient Hardware and Tools Corporation, Coimbatore
Tel: 0422-4072222, 4072284 Mobile: 09789533433
Email: ctdorient@gmail.com

Mfrs. of Metal Gaskets/Valve/Pump Components

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- Serrated Gasket
- Plug Gasket
- Rolled / Forged Ring
- Valve Seat Ring
- Seat Retainer Ring
- Bonnet Ring / Seal Ring
- Valve Stems • Bush
- Yoke • Gland
- Seat Rings, Overlay Welding, Hard Facing
- Valve Components
- CNC / VMC Machined components
- Pump Sleeves
- Pump Seals

Materials:
SS304/316, Duplex 2205/2507, Inconel 625/825, Alloy 254 Hastelloy, Aluminium Bronze, Nickel Aluminium Bronze etc.

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Email: sales@acs.co.in
Official Address: G-220, Purva Nagari, Pune Sholapur Road, Hadapsar, Pune 411 013. Tel.: 020-30505233

COMPRESSED AIR DRYER – REFRIGERATION TYPE

Delair India Pvt Ltd offers compressed air dryers.

Features:

- Compressed air dryers are must for pneumatic controlled tools and systems. If the compressed air is not dry there will be corrosion in compressed air pipe line, pneumatic tools and systems which will lead to their malfunctioning.
- In most cases refrigeration dryers are suitable for 40°C-45°C ambient temperature. A major problem in compressed air systems is the presence of water, dust particles, oil (oils particles are introduced by lubricated air compressors) and solid contaminants which can adversely affect air quality.
- It offers both ranges of compressed air dryers, i.e., refrigeration type and Adsorption type. Refrigeration dryer is ideal for general instrumentation and controls, where pressure dew point is 3°C- 6°C are considered adequate. Adsorption dryers provide a much lower atmospheric dew point from (-)20°C to (-)60°C at a relative compressed air humidity of only 0.1%. Refrigeration dryer operates on the method of cooling the air near to freezing point to remove the moisture and reheating it to approximately 10°C below the incoming compressed air temperature at nominal conditions.
- It is designed for just the right quality of air at the most economical costs. It has wide instrumentation air where requirement is between 3°C PDP to 6°C PDP. It uses less energy and hence low operating cost. The FDI series air dryers a packaged self contained unit, fully automatic and produces a steady level of dewpoint.
- There is complete dryer operation overview from Delsmart Card MIMIC display, available in air and water cooled versions. Its energy saving, low power consumption and easy acceptability for maintenance. It can be specially designed for high pressure applications with optional features such as filter suitable for high pressure application, dryer with bypass line and valve. Refrigeration dryer ranges from 17 m3/hr to 34000 m3/hr (10 to 20,000 cfm).

About the company: Delair India specializes in designing, engineering and manufacturing of compressed air and gas drying systems – refrigeration & adsorption type. The company is largest in compressed air treatment in terms of numbers of units sold, customer base, sales & service network, and capacity of single unit. Delair manufactures refrigeration dryers, desiccant dryers, gas dryers, air receivers, after coolers, moisture separators, air filters and auto drain valves.

Contact:

Delair India Pvt Ltd, Gurgaon
Tel: 0124-4091111
Fax: 0124-4091100
Email: delairmarketing@pahwa.com

STEEL BAR BENDING & CUTTING MACHINE

Orient Machinery offers a wide range of "Steel Bar Bending & Cutting Machine" with brand Peak.

Features:

- Steel bar bending machine is fully automatic steel bar bending machines. All gears are made of steel and rated for continuous working.
- Components are made of special graded alloy steel and precision machined. Machine can be moved on its 4 steel wheels within your work sit.
- Steel bar cutting machine is inside gear is made of steel, can cut upto 35mm (flat, round and square steel). The blade is made from special steel and hardened to give along life all 4 sides can be switched for cutting. These gears are made of special alloy steel.

About the company: Orient Machinery is authorized distributors & for most of the renowned brands in the field of equipments and machinery.

Contact:

Orient Machinery, Coimbatore
Tel: 0422-4270300 Mobile: 09500777485
Email : info@orientmachinery.net.in

DUPLEX FILTER HOUSINGS

S & C Invotek manufactures duplex filter housings.

Features:

- Its design permits continuous operation as the flow can be directed to either housing while the other is serviced.
- One lever controls all the valves in the system, which seals the bubble tight and multi stage strainers are also available in these housings for cost saving. These are user-friendly filter housings and manual backwashing of strainer design is also available.
- The company is a leading manufacturer of simplex and duplex filter housings in CS, SS 304, 316, etc., depending on the liquid parameters. The company offers both 3 way port design and butterfly design for an easy changeover during the chocking of the bag.
- It is engaged in designing and manufacturing filtration products for engineering and process industries. The product line consists of a variety of filters used for various applications and can be utilised for any system whether liquid, air or gas.

About the company: S & C Invotek is engaged in designing and manufacturing filtration products for engineering and process industries. The company also offers Mobile Filter System and Liquid Filtration Systems.

Contact:

M/s S & C Invotek, Bangalore
Tel: 080-26697112, 26797001
Email: info@invotekfilters.com

AIR SHOWERS

Sam Products Pvt Ltd offers a wide range of air showers.

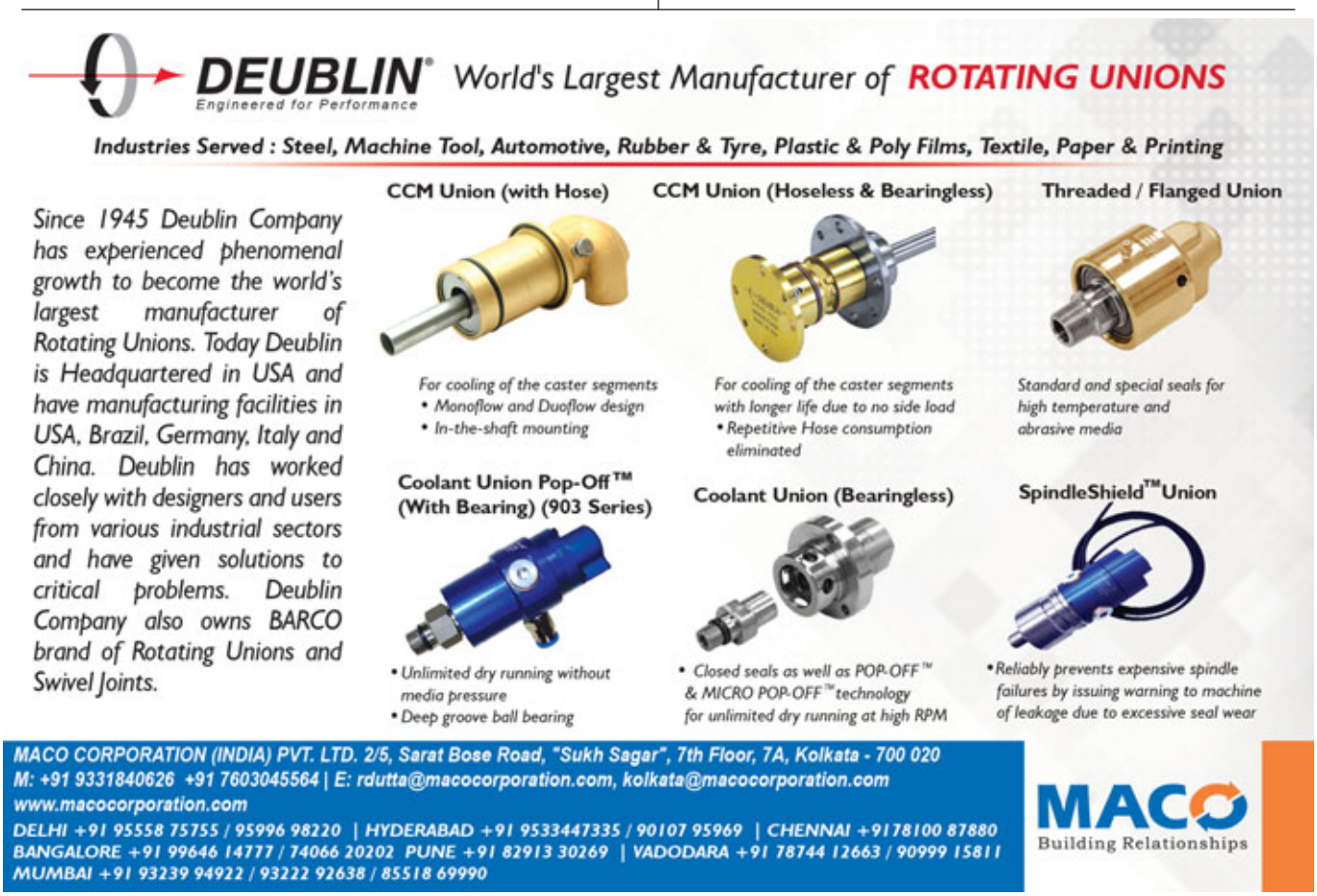
Features:

- The new generation air showers besides having all facilities of the existing Sam air showers, now facilitates the user friendly functions. These new hybrid air showers A.K.A negex have more built in safe features & incorporate better end user requirements.
- Negex are provided with Industrial grade Electromagnetic Locks having single body no moving parts. Even the Doors have Strong & Robust Stainless Steel Striker operating at static olding force of 1,360 kg.
- Electrical main breaker switch are mounted on inside the work zone for rapid shutdown of the system & all doors are immediately unlocked. Electronic ballasted lights ensure reduction of energy costs. Permanantly lubricated direct drive centrifugal blowers.
- Interlocking of both exit and entry doors ensures both doors from being opened. All doors are unlocked automatically in case of power failure.

About the company: Sam Products Pvt Ltd offers plastic air curtains, air showers, etc.

Contact:

Sam Products Pvt Ltd, Noida
Tel: 0120-4357039, Mobile: 09810065139
Email: samproducts1992@gmail.com



ECOFLUX* CORRUGATED TUBE HEAT EXCHANGER

HRS Process Systems Ltd. India, is part of UK based HRS group of companies a leading heat transfer technology provider.

Features:

- The high demand for heat transfer equipments in industries like chemical, pharmaceutical, agrochemical, petrochemical, oil & fats, fertilizer, food and beverages, engineering and others is driving the advancement in heat transfer technology.
- During heat transfer process, over a period of time, deposition of substance occurs. Formation of this boundary layer is referred to as fouling, a factor which poses resistance to product flow. Fouling is typically high in shell and tube (smooth tube) heat exchangers and significantly impacts the heat transfer process.
- It offers ECOFLUX*corrugated tube heat exchanger (CTHE), which is a shell and tube heat exchanger where "corrugated tubes" are used instead of plain tubes.
- This is a definitive option to tackle fouling seen in regular shell and tube heat exchangers. The tubes in ECOFLUX* CTHE are corrugated to induce turbulence in both the flows (product and service) even at lower velocity. Corrugated tube thus, boosts heat transfer multifold even at low Reynold's number with minimum increase in pressure loss. This enables efficient heat transfer even in liquids with high viscosity, large fibers or particulates.
- ECOFLUX corrugated tube heat exchangers are compact in yet give significantly enhanced performance over smooth tube heat exchanger. It can be customized according to the process needs with wide choice of MOC like SS304L, SS316L, 904L, 321, Titanium, Duplex, Hastellloy, Alloy 20 and Copper depending upon compatibility of process fluids.

About the company: HRS Process Systems Ltd is a part of HRS Group, which operates at the forefront of thermal processing technology and is one of Europe's leading heat exchanger specialists. It is equipped with a strong network all across domestic and international market like UK, Spain, USA, India, Australia, New Zealand and Malaysia to fulfil technology needs of process industries. This proves to be a versatile, economical and energy efficient equipment for multiple process industries.

Contact:

HRS Process Systems Ltd, Pune
Tel: 020 25663581/82/ 66047894
Email: info@hrsasia.co.in

SYSTEM MONITORING RELAY

Electronics Relays (India) Pvt Ltd offers a wide range of system monitoring relay.

Features:

- System monitoring is designed keeping in mind complex control systems in a large processing unit where number of such relays are high number, need to be monitored to detect the faults and control the process. The new design is built to sense the faults &to ease monitoring of the relay or the overall function of the system electronically.
- The harsh electrical environment is the cause of failures at the controller and load(field) side. The conventional relays without the sensing functions tend to fail due to over voltage/current and any other errors. In order to overcome such failures a relay which is unique in function is designed with sensing capabilities.
- Relays generally fail as short /open circuit may be in the i/p or o/p circuit. Probability of relay failing as short is very high compared to open circuit failures. Rarely the output open circuits, but still such fault is not ruled out . It may be due to insufficient trigger to the device or the device or open path in the output circuit. In order to make the relay safe and fail proof, the voltage and current are sensed and faults are indicated to alert and monitor the processes.
- This new design is available in the hockey puck style package and rated for 25/40/50 Amps at 240 Vac. Unique SSR IN 17.5 mm built in DIN clip.
- Normally SSRs require an external heat sink beyond 5 Amperes. But this unique design manages the thermal conditions in such a way that it does not require an external heat sink even at 10 Amperes. The product can handle 10 A AC and 15 A dc currents. Mounting is DIN rail compatible and due to its slim style, more relays can be packed in the control panel.

About the company: Electronic Relays India, an ISO 9001:2008, established in the year of 1979, manufacturing solid state relays. ERI is the first company to design an innovative product with looks alike switch gear parts.

ERI began its endeavor by exporting a major part of its production to the united states subsequently; it expanded activities and began catering to the huge demand in the domestic market too.

Contact:

M/s. Electronics Relays (India) Pvt Ltd, Bangalore
Tel: 080-22354189, 22354190
Email: sale@eri.co.in

AIRCRAFT WARNING LED LIGHT

Geltronix avails aircraft warning LED lights.

Features:

- Optical lens arrangement to provide 360o illumination by high-intensity red LEDs; special design for over 10 year life; current through LEDs under all conditions 20mA 20 %; voltage across LEDs under all conditions 2V 10 %.
- Photocell auto on/off (internal fitted) no extra cost; sealed water-proof unit conforming to IP-65 standards; casing made of special aluminum alloy (LM6), painted with UV paint for atmospheric protection.
- UV stabilised polycarbonate lens to protect the LEDs; bird - spike to keep away the droppings; fire retardant; withstands impact of up to 5J.

About the company: Established in the year 1988, Geltronix, is a manufacturer, wholesaler and exporter of broad range of aviation lights. The broad product array is made strictly according to the industry specific norms. The company uses high quality PVE insulated cover for the entire array of aviation lights.

Contact:
Geltronix, Ahmedabad
Tel: 079-25623610 Mobile: 09426573374
Email: geltronix@gmail.com

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Email: sales@solidwheels.com, info@solidwheels.com Website: www.solidwheels.com

D&B 860266190

SOLIDON

AVIATION TOOLS

S H Industrial offers a wide range of Stahlwille aviation tools.

Features:

- Highly durable aircraft hand tools are designed with durability and strength in mind; their mobility and tool-storage products ensure that you never lose another aircraft tool again.
- Aircraft maintenance tools are specialist products designed to last longer; they are made from high tensile strength steels, heat resistant alloys and compound-layer materials.
- Their products have a reputation for quality are a designed to last a lifetime; they have a lifetime warranty on all Stahlwille tools.
- Specialists tools are of a premium quality and are used for the manufacture of aerospace components.

About the company: S H Industrial Needs, is a leading and well recognised name as manufacturers, exporters, importers and dealers of engineering and industrial hand tools and associated accessories.

Contact:

S H Industrial Needs, Chennai
Tel: 044-25218485, 42178485
Mobile: 09840196225, 09840952712
Email: sales@shindustrial.in

AIRCRAFT SEATS

Royal Nag Aviation offers aircraft seats.

Features:

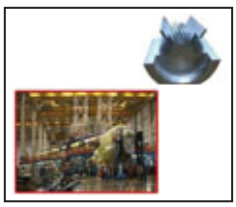
- This is cockpit chair of boeing 747, specially designed and manufactured by royal nag aviation for our complete 1:1 scale functional aircraft models, back rest tilts back and front locks in any position.
- The handle right or left locks in any position, any angle for your comfort; the seat front edge or back edge slides down and up locks at any comfortable position.
- The entire seat slides back and front 6 inches smoothly and locks for your comfort
- Rotating a knob the seat lifts 6 inches up and down and locks in any height for your comfort.

About the company: Royal Nag Aviation established in 2013 is in close proximity to all the major public and private sector aviation Industries at Bengaluru. It based as a sole proprietorship firm. Company is a pioneer manufacturer and supplier of models of functional aircraft made of either composite or sheet metal both for large scale or small scale production.

Contact:

Royal Nag Aviation, Bengaluru
Mobile: 09886009174
Email: royalnagaviationblr@gmail.com

AIRCRAFTS COMPONENTS



Meru Precision Industries offers aerospace components for aircrafts.

Features:

- These are manufactured utilizing quality materials and exactness building procedures.
- Submit to global quality models and offer these products with superb execution, erosion safety and more administration life characteristics.
- These products according to the particular prerequisites.

About the company: Meru Precision Industries is a well acclaimed name in the field of manufacturing, supplying and exporting of industrial gauges, aerospace components, jigs and fixtures, industrial gear boxes, special purpose machines, instrument boxes, lead screw nuts and splitting machines.

Contact:

Meru Precision Industries, Bengaluru
Tel: 080-23324085, 23284708
Mobile: 09986465377, 09620223786
Fax: 080-23525559
Email: merushiv@yahoo.com

SHEET METAL ENCLOSURE

Swati Precision Tool Room offers a wide range of precision sheet metal enclosure especially for aerospace.

Features:

- These enclosures are produced form high grade raw materials like stainless steel, aluminum, etc.
- Sheet metal enclosures are widely used for various electrical and industrial purposes; these are widely used to protect electrical parts, instruments, computer components from dirt, oil and corrosion.
- These sheet metal enclosures for indoor and outdoor applications; angle, bar, channel and tubing are used for production and locks are provided to these enclosures to ensure high security.
- These sheet metal enclosures are used in food and beverages industries
- Sturdy construction; corrosion resistance; precision made; high strength and longer shelf life; these enclosures are epoxy coated to ensure good quality
- Applicable for electrical and industrial purposes; construction and engineering industry; automobile industry; pharmaceutical industry; aerospace.

About the company: Swati Precision Tool Room was established in the year 2003 and is a manufacturer and supplier of precision machined components.

Contact:

Swati Precision Tool Room, Bengaluru
Tel: 080-23584177 Mobile: 09341254424
Email: info@swatiprecision.com, mahadev@swatiprecision.com

DOOR ACTUATION

Eaton Technologies offers door systems and components across the aerospace market.

Features:

- The electromechanical capabilities are central to Eaton's large cargo door product line - a line that continues to provide superior performance.
- Eaton's systems, sub-systems, and components are used to control, open, close, lift, latch and/or lock all types of doors, including cargo, passenger.
- Environment control systems (ECS), landing gear, engine cowl, weapons bay, canopy, thrust reverser, ram air, and other types of aircraft doors.

About the company: Eaton is a diversified power management company providing energy-efficient solutions that help customers effectively manage electrical, hydraulic and mechanical power. The company is a global technology leader in electrical products, systems and services for power quality, distribution and control, power transmission, lighting and wiring products; hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulics and pneumatic systems for commercial and military use; and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety.

Contact:

Eaton Technologies Pvt Ltd, Pune
Tel: 020-66337000
Fax: 020-66338585
Email: enquiryindia@eaton.com

AIRBORNE STRUCTURES

Hemkund Engineering offers airborne structures.

Features:

- Complete manufacture processes include heat treatment, annnealing, forming, solutionising, check and straighten.
- NDT test, age hardening, anodising, painting and assembly.
- Partnerships with various NADCAP approved special process vendors for airborne components.

About the company: Hemkund was established in the year 1983 to cater to the niche segment of precision engineering and manufacturing. Hemkund today has evolved in the Indian aerospace segment, providing solutions for the manufacture of complex aero structures and tooling.

Contact:

Hemkund Engineering, Bangalore
Tel: 80-25092106, 25092107
Mobile: 09845011089
Fax: 080-25594200
Email: pradeep@hemkund.co.in

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AIRCRAFT BATTERY, SILVER ZINC TYPE

HBL Power Systems offers silver zinc aircraft battery.

Features:

- HBL's silver oxide zinc batteries are used in military aircraft for emergency supply of reserve electrical power to aircraft avionics and weapons systems when the output of the aircraft generator is insufficient or the generator is out of service.
- It ensures continued combat capability of the aircraft independently by starting the aircraft engine without ground support units ensuring the aircraft is never stranded and will be available when called upon.
- The silver oxide zinc battery type HBL-SZ-45 manufactured by HBL is specially designed for use on MiG aircraft.
- This battery also fully meets the requirements of DTD & P (air) specification E&I 300, issue-3 issued by the Indian defence.

About the company: HBL Power Systems Ltd is active in business since 1977, with a focus on engineered products and services. The first products selected and successfully developed were Aircraft batteries - eventually leading to HBL offering the worlds widest range of specialised batteries.

Contact:

HBL Power Systems Ltd, Hyderabad
Tel: 040-66167777
Mobile: 08096907149
Email: sankaran.balasubramanian@hbl.in

POWER STEERING OIL FILTER

Clair Filter Systems offers a wide range of power steering oil filter.

Features:

- These correctly outlined oil filters helps in greasing up moving motor parts.
- Oil filters are accessible with wellbeing valves, which sidestep over-prohibitive stream and keeps the motor from being oil starved and increment motor life
- These power guiding oil filters in fluctuated determinations at pocket amicable costs in the business sectors.
- Easy to install; easily operate; high work capacity.

About the company: Clair Filter Systems is a sole proprietary firm, established in the year 2004, which is engaged in the manufacturing and supplying of a wide range of oil filters, automobile air filters, and fuel filters.

Contact:

Clair Filter Systems, Pune
Tel: 020-27672525 Mobile: 09881620899, 07745090899
Email: clairfilter@gmail.com

AEROSPACE COMPONENTS

Kazi Industries offers aerospace components.

Features:

- These components are available in a wide variety of materials i.e, stainless steel, titanium, nickel alloy, heavy alloys, 316, 304 stainless steel, aluminum, copper, brass, bronze, aerospace special steel.
- These are used for a wide range of applications including aerospace, telecommunications, avionics, sub-contract engineering selected conventional equipment provides simple to complex component manufacture from a single to batch production in the most efficient, cost effective and consistent manner possible.

About the company: Kazi Engineering produces components in ferrous and non-ferrous materials. It also offers sub-contract, multi axis CNC machining services, and this latest technology provides customers with CNC Milling capability up to 30 mm in length, together with CNC turning facilities up to 250 mm in diameter barfed.

Contact:

Kazi Industries, Pune
Tel: 020-25381995 Fax: 020-25381232
Email: feeroz@kaziindustries.com, info@kaziindustries.com

AUTOMOBILES SCANNER

Newtech Equipment offers automobiles scanner.

Features:

- This is compact and diagnostic scan tool for all Asian and European vehicles.
- User interface – fast downloading, compact size, bright display backlight; memory capacity – 256 MB built-in memory (max 1 GB)
- LCD – LED backlight 320x240 resolutions, 40 columns x12 lines; keypad – soft touch keypad type, total 25 keys button; power consumption – 3.6 watts; operating voltage – 7-36 V DC input
- Operating temperature – 0-50; internal battery – max 2 hr; user-friendly function – connector location, auto searching mode; scan function – current data, flight record, actuator (wherever applicable).

About the company: Newtech Equipment is a manufacturer and trader of wheel balancer, computerised wheel aligner and automatic tyre changer. These products are developed by employing cutting edge technology and machinery. The offered range of products have advantages like easy installation, accurate design, compact size, high operating speed, among others.

Contact:

Newtech Equipment, Ahmedabad
Mobile: 09327123141, 09426068557
Email: newtechequipment@gmail.com

3D-STL WHEEL ALIGNMENT MACHINE

Sarveshwari Technologies, offers 3D-STL wheel alignment machine.

Features:

- It plug and play machine; 5 mega pixels Sony camera made for fast and accurate alignment; adjustable camera exposure to align super big vehicles; microsoft window XP compatibility alignment program.
- It is compatible with alignment pit/lifts; operate: mount the clamps-roll vehicle back or pull forward-obtain all; alignment readings in under dynamic measurements without rim; compensation, the basic parameters can be done in less than 2 minutes.
- In addition to the traditional basic parameters, certain extensive functions; like steering wheel, single wheel, and vehicle lift, etc; chassis align data online facility; precise measurements too can be done.

About the company: Sarveshwari Technologies Ltd(SARV) offers solutions for the tyre maintenance, with latest technology from the world's renowned OEMs and good stock of spare parts.

Contact:

Sarveshwari Technologies Ltd, Delhi
Tel: 011-27023750, 27021499. Fax: 011-27011629
Email: info@garageequipments.com

AUTOMOTIVE AIR DUCT HOSE

Ace Engineering & Chemicals, offers automotive air duct hose.

Features:

- Automotive air duct hose offered are FRP based that makes these non corrosive in terms of finish and long lasting in usage.
- Designed to deliver lifelong services, these are also water proof as well as come in light weight finish, thus making these ducts easy to handle while cleaning and during general maintenance.
- Meets up to the demands of cross ventilation; being made of FRP material, these are also superior in constructed finish and provide for superior ventilation for exiting of air and heat; no water absorption; excellent weather-ability.

About the company: ACE Engineering & Chemicals Pvt Ltd, established in the year 1998, is a manufacturer, distributor, exporter and supplier of a superior range of engineering moulding products/ components.

Contact:

Ace Engineering & Chemicals Pvt Ltd, Indore
Mobile: 09826061669
Fax: 0731-2857481
Email: director@aceengineerings.com

ELECTRIC OVERHEAD TRAVELING CRANES

Reva Industries Ltd offers a wide range of electric overhead traveling cranes.

Features:

- This EOT Cranes are fine examples of practical, intelligent, reliable, and economical and balanced solutions for overhead handling of loads.
- It for a foundry shop or a godown, our cranes have been designed and manufactured for all needs.
- It embracing high level of standardisation and continuous evolution of our components for the past 5 decades, they have come to serve an honourable clientele, which includes, BHEL, SAIL, Tata, L&T and many more.
- These cranes are available in capacities ranging from 1T to 250T and span upto 50 Mtrs confirming to IS 3177 / IS 4137 / IPSS and IS 807, other International standards. Designs for circular path of travel, cranes for hazardous areas (Atex Certified), Underslung cranes are also manufactured.

About the company: Eicher's material handling division manufactures EOT cranes, double girder cranes, single girder cranes, underslung cranes, among others.

Contact:

Reva Industries Ltd, Faridabad
Tel: 0129-4185400. Email: reva@revacranes.com

GANTRY / GOLIATH CRANES

Reva Industries Ltd offers a wide range of gantry/goliath cranes.

Features:

- These cranes, often called goliath cranes or portal cranes, are suitable for indoor and outdoor usage.
- They are self-standing members (they are cranes with legs, and do not require support from walls or rigid columns of buildings.
- They are available in a wide range of capacities between 1T till 150T. They are majorly used in open ware houses or buildings where the column or structure is weak.

About the company: Established 1963 with auto parts for escorts, Eicher. In 1979 the material handling division was initiated to manufacture EOT cranes, double girder cranes, single girder cranes, underslung cranes, underslung double girder cranes, electric hoists, high lift hoists, low headroom hoists, jib cranes, pillar mounted jib cranes, wall mounted jib cranes, goliath cranes, stacker cranes, traverser, tandem operation cranes, flame proof cranes, circular cranes of different sizes and capacities.

Contact:

Reva Industries Ltd, Faridabad
Tel: 0129-4185400
Email: reva@revacranes.com

HOSE CRIMPING MACHINE, MODEL HP/TRM2

Iso Hose & Engineering Works Ltd offers Flexon make hose crimping machine, model HP/TRM2.

Features:

- These machines is versatile and most rugged machine most simple operation and optimum accuracy of crimping of hose assemblies are the added features of the machine which is economically priced.
- The machine is beautifully painted with chrome plated supporting rods. Machine has digital display and operates with power switches and foot-operated valve (optional).
- Hose crimping-hose cutting-hose skiving- hose testing with impulse tests ranging from 7500 psi to 40000 psi working pressure. Flexon hose crimping machines are available in various variants and sizes ranging from ¼" Size to 1".
- It is manually hand operated and motorized and ¼" to 2" size motorized hydraulically operated horizontal.

About the company: Flexon Machines provides hydraulic flexible hoses and hose connectors mostly against original part nos.

Contact:

Iso Hose & Engineering Works Ltd, New Delhi
Tel: 011-42137604/25990574
Email: isohose1974@yahoo.co.in

PANEL LOCK

ABS Corporation offers newly launched weather proof panel lock.

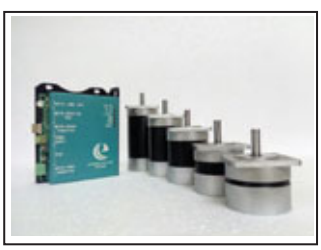
Features:

- It is weather proof lock with IP 65 AND IP 67 rated & it is 18", 20", 24" networking rack, mobile rack, available in mild steel and stainless steel.
- It is available in mild steel & stainless steel.
- It can be locked with 3 position at one time; available in 120mm, 160mm and 200 mm.

About the company: ABS Corporation is one of the leading manufacturer of all kinds of panel lock, hinges and handles. It was established in 2002 and exports to more then 30 countries.

Contact:
ABS Corporation, Thane
Mobile: 09324076522, 09970868395.
Email: info@lockmanufacturer.in

BRUSHLESS DC MOTOR WITH DRIVE



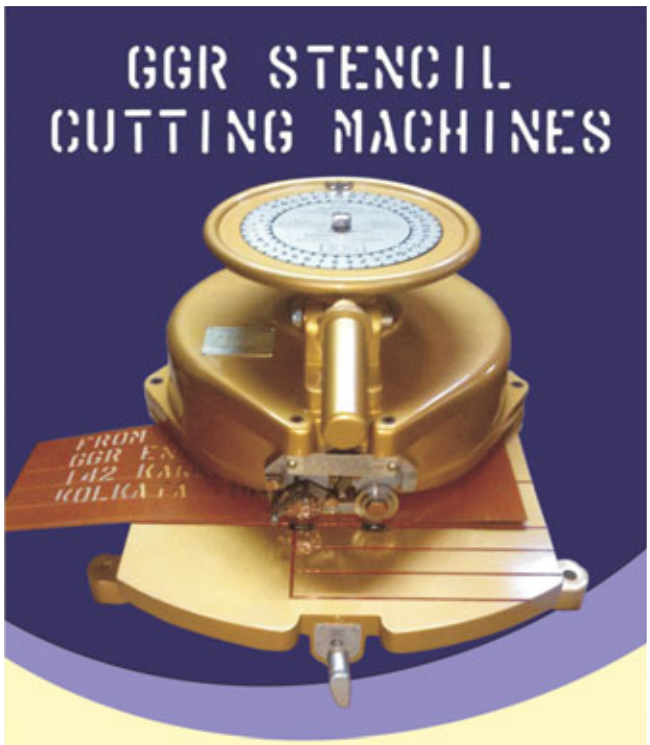
Chandra Electric Company offers a wide range of brushless dc motor with drive.

Features:

- This product offers NEMA 23 frame size BLDC motors from 10 to 120watts in 24vdc, 36vdc and 48vdc (Custom Voltage motor also can be manufactured) using rare earth magnets as rotor.
- It is offering 4pole motors with and without hall effect sensors. End Shields are aluminum pressure die cast. Motor shafts (machined in CNC m/c) made of Carbon steel 40C8 as per IS: 1570.
- Specially designed bearings are used to withstand frequent change in acceleration, deceleration or sudden change in speed.
- This motor and drive work in closed loop system. Drive also offers serial communication with basic feature on potential free contact like start/stop and Frwd/Rev, speed control thru POT or PLC (0-5Vdc/10Vdc) as per customers' choice.
- It is 24Vdc operated speed 3000-12000 rpm, wattage:- 10 to 120 watts.

About the company: Chandra Electric Company manufactures electric motors (BLDC, PMDC, universal, shaded pole, AC motors) for import substitution.

Contact:
Chandra Electric Company, Mumbai
Tel: 022-25961016
Mobile: 09322505913, 09702208929
Email: pillai@cemotors.co.in,
cemotors@gmail.com



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Email: sales@cmdindia.com / response@cmdindia.com
URL: www.cmdindia.com

TENSION SPRINGS

Aditya Industries offers tension springs, also known as extension springs.

Features:

- The main use of a tension spring is to absorb or store energy along with creating a resistance to the pulling force, the spring gets stretched as the lood is applied to it.
- These are helical wound coil springs usually designed with hooks, loops or end coils.
- Tension springs are attached at both ends to other components, when these components move apart, the spring tries to bring them together again; tension springs absorb and store energy as well as create a resistance to a pulling force.
- It is the initial tension that determines how tightly together an extension spring a coiled; the initial tension can be manipulated to achieve the load requirements of a particular application; these are wound to oppose extension.
- They are often tughtly wound in the no load position and have hooks, eyes, or other interface geometry at the ends to attach to the components they connect; they are frequently used to provide return force to components that extend in the actuated position.

About the company: Aditya Industries manufactures coil springs for use in stone crusher machine, vibrating screen, construction machine, mining, elevator, agriculture, switchgear etc.

Contact:
Aditya Industries, Ambernath
Tel: 0251-2620027. Email: aditya_springs1@rediffmail.com

BREAKSTEM BLIND FASTENERS

Avlock International India Pvt Ltd offers a wide range of breakstem blind fasteners.

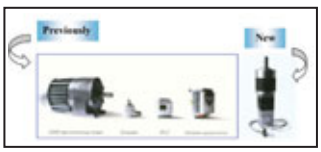
Features:

- These are available in various types & different materials. These are widely used in all sheet metal industry.
- It is ideal for use in thin sheet materials where access is limited to one side of work surface only.
- Compensates for irregular, oversized, slotted or misaligned holes. Provides strong, vibration resistant joints.
- It is high corrosion resistance & high shear and tensile strength.

About the company: Avlock International is the world's leading manufacturer and distributor, in specialized fasteners and installation equipments. They are an Indo-South African joint venture company having ISO 9001:2015 certification for manufacturing and supply of rivets and installation tools.

Contact:
Avlock International India Pvt Ltd, Thane
Tel: 022-25823404, 1118
Email: info@avlock.co.in

BRUSHLESS DC MOTOR



InnoVista Sensors India Pvt Ltd offers a wide range of brushless DC motor.

Features:

- Users can use these motors to simplify the design: just enter the direction and the speed, and this brushless motor will handle the rest. Crouzet motors combine the variable speed drive, encoder and motor all in a single compact and homogenous unit.
- These product features are: high-performance at your fingertips – the compactness and constant torque at all speeds of BLDC motor; the instantaneous start/stop; the silence and service life of a BLDC motor; and the ease of installation and wiring of a monobloc product.
- With a Crouzet brushless DC motor with built-in controller, users can remain one step ahead and take advantage of optimum performance levels at an affordable price.

About the company: InnoVista Sensors is an industrial specialist of sensors, controllers and actuators for automated systems. Its brand Crouzet, InnoVista Sensors offers a wide range of reliable, efficient and customisable components dedicated to the aerospace and defence, transportation and industrial market and segments. InnoVista Sensors brings performance enhancing solutions to its customers worldwide.

Contact:

InnoVista Sensors India Pvt Ltd, Bangalore
Tel: 080-67624516. Email: india@crouzet.com

OIL SEALED ROTARY HIGH VACUUM PUMPS

Shenovac offers a wide range of oil sealed rotary high vacuum pumps.

Features:

- These pumps are oil immersed, rotary vane types. The main assembly consists of a main body with a rotor mounted eccentrically in it.
- The rotor is provided with two vanes opposite each other with springs in between, which press them against the inner wall of the main body. When the rotor revolves, the vanes move-in and out of the rotor and sweep the air space twice per revolution.
- These pumps are better known for their outstanding and trouble-free performance. The product features include high efficiency and accuracy, compact and sturdy design, reliability, uninterrupted supply of vacuum, easy maintenance and trouble free performance.

About the company: Shenovac Engineers is equipped with sophisticated high-tech machines enabling in producing high standard quality products.

Contact:

Shenovac Engineers, NewDelhi
Mobile: 09810480220, 09818347008
Email: shenovacpumps@yahoo.in

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Instamod Airpipe offers energy saving compressed air piping system

AIRpipe as names suggest is used for transmission of air through pipe, which is made of various alloys that help to avoid corrosion, have laminar flow, light weight and many more advantages as comparison to normal GI/MS pipes. From past experiences most of the companies rely on cost saving by putting energy saving on back seat but this can also save cost and can be also contributor for environment by saving electricity by using updated products available such as AL pipe for air. In India, many compressor manufacturers suggest using efficient piping and now customers are getting awareness through compressor manufacturers as well. There are so many government/private agencies who are conducting seminars about "save energy, save money" campaign which are been taken seriously by big companies, who have even installed AL Pipe in their factories.

Instamod Airpipe came into Indian market in January 2015. Its share rose from 0 per cent to 15 per cent in three and half years and recorded turnover in double figures. The company has 37 dealers from J&K to Kanyakumari.

The company's strength increased to 32 including all departments. While its HO is located in Delhi, it has warehouses also at same places. Many big customers from different sectors like mobile manufacturer, automobile, automation, pharma, wood industry, machine tools, textile, foundary, printing, packaging, food industry, etc rely on Airpipe.

Santosh Kumar, MD, Instamod Airpipe

Airpipe offers advantages such as:

- Aluminum tube (supplied in single lengths available in 2.9 and 5.8 meters from 20 to 200 mm
- Installation is flexible, quick and easy
- Resistant to corrosion, vibration and heat, the air is preserved throughout the system up to point of use
- Performance of the AIRpipe system differentiates itself through outstanding design, quality material and efficient production processes
- Integration with existing compressed airing main systems is possible with the extensive range of pipe and fittings available
- Peace of mind knowing AIRpipe is supported with a manufacturer 10 year warranty
- Energy efficient low friction inner surface eliminates airflow restriction, reducing pressure drop

The company has another product to offer for compressed air and for water "AQUA pipe" in its product range.

The company has already got good number of installations in Indian market. The technology is unique what others are giving in India like from 15.50 mm Dual pressing fittings, uniform ring grab steadiness quick and modular and from 63-25 mm Clampshell Union Connector for quick install & re-assembly. The company has both variants for water Silicon seal and for Air NBR seals. In addition to this, it can offer AQUA- pipe in 304 & 316L and also as per customer demand. "With this product also we are eyeing big business in India since others still have welding technology in SS but AQUA pipe have edge over the technology. We hope to have impression in the market of SS very soon," says Santosh Kumar, Managing Director, Instamod Airpipe Pvt Ltd.

Recently, the company started a new branch office at Coimbatore that can be used as mini warehouse to ensure better delivery in the South Instamod is planning to open more branch offices cum warehouses in different parts of India in coming years.

Instamod Airpipe has many certification such as ISO 8573-2010 Class: I, CE, ISO 9001.2000, UL94-2013, updated TUV certificate. "We have been judged third most known brand in this market when other two brands are in the market from last 20 years and 8 years respectively with plastic fittings as against metal fittings by us. Achieving this within span of three and half years would not have been possible if we do not have good products to offer," says an Instamod Airpipe official. IPF

For details, contact Instamod Airpipe Pvt Ltd on Tel: 011 4953 5588, 4175 5588, or santosh.kumar@airpipe.in/sales@airpipe.in, or visit www.airpipe.in

(Communication provided by the management of the company)

ANTI-CORROSIVE PRIMERS AND INTERMEDIATES

Hempel Paints (India) Pvt Ltd offers a wide range of anti-corrosive primers and intermediates.

Features:

- Can provide a reliable anti-corrosive system for almost any structure or piece of equipment, from bridges and port equipment to offshore wind turbines and oil-gas constructions
- All our coating solutions are designed with durability in mind, to ensure you benefit from longer asset lifetimes and efficient maintenance; the primers and intermediates have been tested according to Norsok and ISO 12944 standards, and
- The range of primers and intermediates includes: avantguard activated zinc primers, hempadur epoxy coatings, galvosil zinc silicates, versiline CUI 56990, hemudur waterborne epoxy primers, hemucryl waterborne acrylic primers.

About the company: Hempel is a coatings supplier for the decorative, protective, marine, container and yacht markets. These coatings protect man-made structures from the corrosive forces of nature.

Contact:

Hempel Paints (India) Pvt Ltd, Mumbai
Tel: 022-61392555, 2520392123.
Mobile: 09821412315. Email: prta@hempel.com

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Ph: 01123219790, 23216169, 23213218
Fax: 91-11-23219790, Resi.: 27243412
Mob.: 9313647109, 09891293546
E-mail: ashokabearings@gmail.com

◆ **Goa**
Hemmady Regency, 12/14, Malbhat,
Margo, Goa-403601, Ph: 0832-2715780
Fax: 0832-2730167, Mob: 09822487301
E-mail: abegoa22@gmail.com

◆ **Haridwar**
L-59, Shivalik Nagar,
Bhel, Haridwar (UK)
Ph: 01334-233145,
Mob: 9760329899
Fax: 01334-231749
E-mail: abeharidwar@gmail.com

◆ **Rudrapur**
P-14, Opp. 2nd Pac Gate,
Awas Vikas Nainital Rd,
Rudrapur (UK) Mob: 9359944750
Ph: 05944-242566 Fax: 05944-243049
E-mail: abeuttar@gmail.com

◆ **Mumbai**
64, Mohammad Ali Road,
Mumbai-400003
Ph: 022-23447109, 23473106
Mob: 09320035334
Fax: 022-23420728
E-mail: ashoka.bem@gmail.com

◆ **Bhilai**
I-b, Light Industrial Area, Near Chawni Chowk,
Nandini Road, Bhilai-490026. CG.,
Mob: 7898917901/02/03/04 / 09310633814
E-mail: ashoka.cgh@gmail.com

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Clients : MAHINDRA & MAHINDRA, SONALIKA TRACTORS LTD, DMG MORISEIKI, MAZAK LTD, MARSHALL MACHINES LTD, TBRL, SONA GROUP, SIGMA ELECTRIC LTD, ROCKMAN INDS LTD, RICO AUTO LTD, DANA INDIA PVT LTD, SHIVAM AUTOTECH LTD

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98150 94342
81465 74342
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saipkl@yahoo.com

Neotech Equipments offers innovative equipment

Neotech Equipments was established in New Delhi in 1993 with a clear intent to diminish the wide gap between the users and manufacturers of high quality technical components and machinery in the production & process industry. The company has successfully positioned itself as a reliable trade and service partner for numerous companies in India.

Right from the beginning Neotech has concentrated on an assortment of products and over the years, this product range has been constantly updated and adapted to current market developments, in line with its motto “Moving Ahead With New Technologies”. This motto enables the company to give its customers a benefit of “Everything from one source”.

In order to live up to its commitment - a guarantee of quality and performance - Neotech continues to invest on employee training sessions, work with its engineers and experts on innovative and solution-oriented products and services.

It has partnered with such as Olaer, Parker Hannifin, Power Team, SPX Flow, Chicago Pneumatic, etc.

The company is proud to be associated with many strong brands from the industry; known for exceptional quality and innovative technologies which benefit its customers. Neotech partners see it as a reliable and competent partner

High pressure hydraulic tools and accessories

High pressure hydraulic tools and accessories

to recommend and supply their products to its customer.

Wide product range for selection

Neotech’s extensive product range includes an assortment of nearly 30,000.00 articles and is divided into few selected groups. Snapshopt of its product range is given below:

1. High pressure hydraulic tools and accessories: Various types of lifting jacks, pumps, pullers, bolting products, specialty tools like spreaders, punches etc, accessories – hoses, gauges, couplers, fittings etc.
2. Hydraulic accumulators and air oil coolers: Bladder/diaphragm/piston type accumulators, charging kits, safety blocks, air oil coolers, plate type heat exchangers etc.
3. Pneumatic hand tools: Air driven impact wrenches, drills, die grinder, sanders, screw drivers, hammers, cutters, riveter.

Neotech also undertakes service contracts and AMCs for its supplies. Its in-house servicing team is always dedicated to assisting customers in any break-down with a minimum turn-around time.

Neotech offers following advantages:

- The company consults and assists customers in selection of technical products as per their requirement, by visiting their site and understanding their actual requirement.
- The customer gets planning security through Neotech’s solid inventory and in-time delivery schedules.
- The customer gets an outstanding assortment from one single source for both standard and non-standard products.
- The customer handles all orders with one contact person – dedicated sales representative.
- The customer benefits from Neotech’s prices as a wholesaler.
- With a dedicated service team, the customer will have minimum downtime with Neotech’s supplies.

Neotech serves industries such as oil & gas, heavy engineering, power sector, automotive and ancillaries, farm engineering, fertilisers, cement and many others.

Pneumatic hand tools

User orientation, reliability and speed are decisive for Neotech. More than 2,000 satisfied customers in India have already decided on a long-term business relationship with Neotech. Over the years, the company has developed trusting partnerships with customers and suppliers. For the company, this is proof that the path chosen by it is the right one. For the customer, it is the guarantee that Neotech will continue to be a responsible, competent and reliable partner in the future. IPF

For details, contact Neotech Equipments Pvt Ltd, New Delhi, on Mob: +91 95400 62568 India, email: mail@neotechworld.com or visit www.neotechworld.com.

(Communication provided by the management of the company)

CF POWDER COATING EQUIPMENT

Triologics Surface Finishing Equipments offers a wide range of CF powder coating equipment.

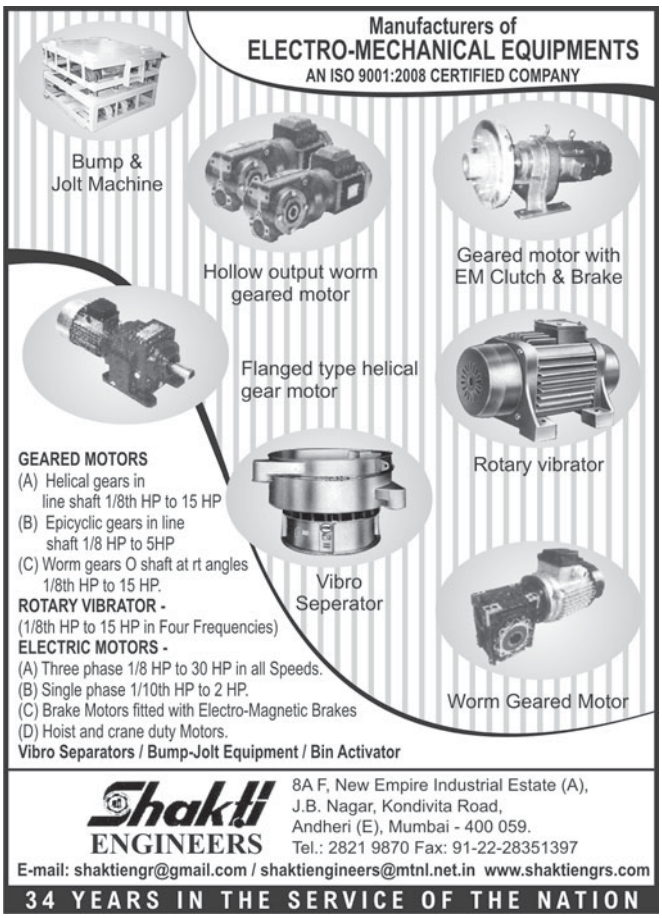
Features:

- This is a constant power unit, which ensures voltage and current ratio to ensure proper charging of powder with good coverage and wrap around at different distances from gun tip and the job to be coated, which results in highest first pass efficiency for better coverage.
- A variety of powder flow patterns are possible due to special vortex type nozzle design without changing nozzles; the Corona-CF is a typical electro-pneumatic design with two stages, which can be used depending on the job profile.
- The difference in charge tackles the faraday cage effect and stops repelling of powder, which is an advantage when painting corners and intricate shapes.

About the company: Triologics Surface Coatings is a manufacturer, trader and exporter of a range of finishing equipment and system.

Contact:

Triologics Surface Finishing Equipments, Pune
Mobile: 09423003832, 09422027596
Email: response@triologics.com



Fire-rated shutters: The unsung heroes of fire safety

Fire shutters play a vital role in fire safety of buildings and industrial premises. Their correct specifications, installation and use is paramount to the safety of all those who use the facility. Fire shutters are the unsung heroes of the fire safety because for most of their working lives they just work like any other doors. However, if fire breaks out, a fire shutter must fulfill its role as an engineered safety device, in order to hold back the spread of fire and smoke and to save lives and property.

Fire rated doors/shutters are applied in various places such as industrial, commercial, institutional, and retail projects where fire protection is required. We take fire shutters for granted. We need to regularly check that all parts continue to function correctly without compromise.

We expect a jobbing builder or small contractor to be able to install a complex engineered fire safety device. What he doesn't realise is all of the components have to be able to work together to ensure the shutter assembly will work effectively in the event of a fire. Certified fire shutters with proper fitting is necessary to avoid any damage to property and lives.

Importance of fire rated rolling shutters

If you are running a business, then you should be very careful regarding fire incidents. At that time fire protection systems are a fundamental necessity in running a business as fire can easily sweep away everything you have worked so hard for. It is one of the greatest enemies of various organisations, especially organisations including shopping centers, hospitals, school canteens, restaurants etc.

A proficient framework for fire prevention must be created to

secure the business property against fire. Different sorts of equipment should work hand in hand to limit the damage that fires can cause. Our fire rated rolling shutters are among the modern equipment that is used to compartmentalise a building in order to help prevent the fire from spreading. Only here you get the best fire rated rolling shutters!

Our organisation is delicately engaged in the business of supplying fire rated rolling shutters. It is manufactured using high grade galvanised steel, our whole range is planned in consistence with worldwide quality measures.

Fire shutters/doors by Gandhi Automations are engineered carefully with feature below:

- **Auto-closing mechanism:** Fire doors/shutters designed by Gandhi Automations Pvt Ltd are equipped with fusible link mechanism. Upon sensing a temperature of 74°C, the fusible link mechanism releases the brake of the motor and allows it to descend by gravity. The operating system can be directly wired for activation by fire alarm system or smoke detectors.
- **Sturdy construction:** Fire doors/shutters are constructed from cold rolled galvalume/galvanised steel/stainless steel laths with a minimum thickness of 0.9 mm. The interlocked profiles are securely held using specially designed profile ends which act as a curtain alignment system thus eliminating lateral movement of the profiles. Fire shutters/doors designed by Gandhi Automations Pvt Ltd can resist fire up-to 4 hours.
- **Maintenance:** Frequent inspection/maintenance of the components is of utmost importance. At Gandhi Automations our maintenance team checks that all parts continue to function correctly without compromise.

Designed and constructed to suit a full range of industrial and commercial applications. All doors are provided complete with electric operation and normally linked to the fire alarm system or local smoke detectors to initiate the dropping of the shutter curtain.

Industrial: Self closing by means of a fusible link activated at a temperature of 68°C and fitted to the underside of the hood. Shutter closing is initiated by means of a 24-V solenoid release device connected to the fire alarm or smoke detector system and which automatically resets when the shutter curtain is fully opened by pressing the "up" button and when the alarm has been turned off. Option of mechanical fused link back up is available.

Commercial: Fused link activation activated at 68°C which sends a signal to a relay to close the shutter under power down from the mains supply or from the battery backup unit. Shutter closing is initiated by means of a fire alarm relay which mimics the action of a solenoid on a conventional shutter and powers down the shutter from the mains supply or from the battery backup unit. A volt free normally open signal is required from the fire alarm. IPF

(Communication provided by the management of the company)

COLD GALVANIZING ZINC COATING

Arihant Corporation offers a wide range of cold galvanizing zinc coating.

Features:

- It works electro-chemically on all ferrous metals, providing rust and corrosion protection indoors and outdoors.
- Provides a tough, flexible coating that will not crack or peel even in extreme heat or cold; it is a 98% zinc-rich galvanized coating that works like a hot-dip on ferrous metals indoors and outdoors.
- The coating withstands water temperature up to 100°C and continuous dry heat up to 400°C; flash rust prevention on welded areas.
- Applications include air conditioning systems and fans, fencing, piping, sumps, water tanks, gutters, metal roofs and buildings, structural steel bridges, buildings, off-shore rigs, steel windows, etc.

About the company: Arihant Corporation, established in 2007, is a trader and supplier of lubricant oils, lubricant spray, synthetic lubricant, aerospace lubricant, grease lubricant, release agents, etc.

Contact:

Arihant Corporation, Ahmedabad
Mobile: 09426035613, 09978923163
Email: aricorpo@yahoo.co.in

EPC SERVICES FOR SOLAR/ WIND POWER PLANTS

Powermax Energies Pvt Ltd offers a wide range of EPCservices for solar/wind power plants.

Features:

- Solar/wind power plants are fully integrated power plants, with PV solar modules, wind generators, solar mounting systems, PCUs and other electronics that wire the grid and provide an independent source of energy.
- The range includes control panels, electrical control panels, DC drives, electrical DC drives, lift inverters, online UPS systems, commercial UPS systems, home inverters, sinewave inverters, servo stabilisers and Exide batteries in Thane, Mumbai.

About the company: Incepted in the year 1978, Powermax Inverters & UPS Systems is an ISO certified organisation. It is engaged in the manufacturing, exporting and trading of wide assortment of home UPS systems and batteries. Moreover, it is the authorised dealer of Bajaj home UPS systems and Exide batteries, Prestolite batteries and Amco batteries in Maharashtra.

Contact:

Powermax Energies Pvt Ltd, Mumbai
Tel: 0251-2446592
Mobile: 09322282181, 09769319621
Email: sales@powermax.co.in

NEOTECH EQUIPMENTS PVT. LTD.
Moving Ahead with New Technologies

Manufacturing, Sales & Servicing of Industrial Products

High Pressure Hydraulic Tools

We offer Hydraulic Jacks, Pullers, Toe-Jacks, Hand Pump, Electric Pumps, Torque wrenches, and many more high pressure tools and accessories

Maintenance Tools for Rotary Products

We offer -
Chain Oilers,
Air Breathers,
Induction Heaters,
Oil Level Indicators etc.

Pneumatic Hand Tools

We offer Impact Wrenches, Screw drivers, Drills, Angle Grinder, Sander / Grinder, Riveters, and many more specialty tools.

Hydraulic Accumulator and Air Oil Coolers

We offer Bladder type Accumulators, Piston Accumulators, Charging Kit, Diaphragm Accumulator, Safety Blocks, Heat Exchangers, air oil coolers etc

Delhi Office:
401, Gagandeep - 12,
Rajendra Place,
New Delhi 110 008.
Tel: 011 – 25740364, 41537923
Mobile: +91 9540062568

Vadodara Office:
Ananda 10, Ahsray, Geri Road,
Gotri, Vadodara 390 021.
Tel:+91 7405006382, 7405052681
Mobile: +91 9891799850
Email: mail@neotechworld.com

Authorised Distributor for:
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Power Team
Parker
Chicago Pneumatic

Associates in Pune, Mumbai, Bangalore, Chennai and Kolkata

www.neotechworld.com

Phoenix Contact: A strong partner for machine building

Machine building is a global and very dynamic market. The competition you are facing as a supplier is tough. For you, it is important that you meet the requirements of your customers and develop a range of products and services that allows you to be sustainably competitive. The focus is on the cost-effectiveness, quality, flexibility, and performance of your machines.

Phoenix Contact offers you an extensive portfolio of products and services – the decisive contribution to your competitiveness.

Safety for every function: Utilize PSR safety relays if your machine requires few safety functions and logical links to be implemented. The combination of innovative connection technology, space-saving style and clearly arranged design contributes to the quick and economic implementation of the safety- related application.

Protecting network and data: The FL MGUARD security routers and firewalls protect your machine and your network against unauthorized access by people or malware.

Reliable power supply: QUINT POWER with SFB technology trips circuit breakers magnetically and quickly with six times the nominal current. Only faulty current paths are switched off selectively, important machine parts remain in operation.

Intelligent motor switching: Switch and reverse motors quickly and reliably with CONTACTRON compact hybrid motor starters.

The micro processor control enables wear-free switching. This means that the service life of devices is up to ten times longer than that of purely mechanical devices.

Intelligent motor protection: The CONTACTRON motor manager combines overload and underload detection in a single device. This allows you to detect all critical load states.

Securely connecting the field level to the controller: VARIOFACE system cabling connects the controller to the field - easy and error-free. Phoenix Contact provides the corresponding front adapters, system cables, and interface modules.

Protection against surge voltages: Surge voltages pose a risk for machines and can lead to the destruction of important function groups. Increase the safety and machine availability with effective surge protection in the supply and before signal interfaces.

Reliable connection with sensor/ actuator cabling: The easiest way of performing the signal wiring in the field consists of the use of sensor/ actuator cables and corresponding junction boxes. With M8 and M12 lines in variants for all different types of requirements, you can connect individual sensors and actuators as quickly and as safely as modularly designed system components.

Space-saving and safe cable entry systems: CES is the cable entry system for assembled cables and lines. It allows routing all types of different cables in a space-saving way from the control cabinet to the field.

One system – fewer parts: The HEAVYCON EVO plug connector system features a standardized mount for cable glands from size M20 to size M40. The cable outlet direction can easily be determined on site. This allows up to eight conventional sleeve housings to be replaced.

All connection technologies, one system: With CLIPLINE complete, you can freely choose the connection technology. Whether screw, push-in, spring-cage, quick, bolt or plug connection: Combine all connection types using the same accessories.

Optimum marking material for your application: The manifold product range covers all the requirements of terminal, cable and conductor marking as well as device and system marking.

The right tool for every application: The Toolfox tool program offers excellent hand tools and machines for cutting, stripping, crimping, screwing and testing. Our ergonomically-designed tools convince through simple handling, high service life and best working results. IPF

For details, contact Phoenix Contact India Pvt Ltd, New Delhi, on email: adverts@phoenixcontact.co.in

(Communication provided by the management of the company)

TOP WINNING STRATEGIES FOR MANUFACTURING SECTOR

According to the World Economic Forum (WEF), India's manufacturing sector has grown by over seven percent annually on average in the past three decades and accounts for 16-20 per cent of India's GDP at present.

A recent report by McKinsey & Company, states that, if Indian firms adopt Industry 4.0 across manufacturing, supply chain, logistics and procurement, they can boost profits by 40 per cent at less than 10 per cent of the planned capital expenditure. Hence, going forward, Indian companies will have to continuously explore and look for new exponential breakthroughs to succeed and thrive in the digitally disruptive market. Enterprise leaders will also have to re-imagine the ecosystem and drive differentiated capabilities, new business models and revenue streams while upskilling the talent for shaping the future. While on a path of advancements, it is of utmost importance for companies to develop sustainable model of manufacturing practices for better tomorrow.

With the Indian manufacturing sector aiming to reach $ 1 trillion by 2025, the question is: Are we ready to embrace the future? The "Cover Story" attempts to answer this query as industry experts deliberate on ways and means to make India a global hub for manufacturing and R&D.

They also discuss strategies to be adopted by Indian manufacturing industry to overcome challenges and emerge winner. Read on...

Adopting a winning strategy for the Indian manufacturing industry

While manufacturing remains a critical force in driving economic growth, the sector has changed radically, bringing new opportunities and challenges to business leaders. The future looks bright. The question is are we ready to embrace the future, ask **Abhay Kulkarni** and **RN Kulkarni**.

About the authors
Abhay Kulkarni (left) is the Global COE Director (Physical Integration), while R N Kulkarni (right) is the Associate Vice President (Manufacturing) at Tata Technologies which makes product development a reality by designing, engineering and validating the products for the world's leading manufacturers. Tata Technologies is the manufacturing industry's premier partner for engineering, R&D, product lifecycle management consultancy and software, and connected enterprise IT solutions.

The manufacturing industry has traditionally been a driver of growth for the Indian economy. The good news is that the potential for further grown remains undiminished – a Deloitte study estimated that India would be among the top 5 manufacturing nations by 2020, joining the United States, China, Germany and Japan. Buoyed by a governmental push towards manufacturing, especially the flagship 'Make in India' initiative, Indian manufacturing is on the cusp of becoming a global hotbed of innovation. As evidenced by the opening of the world's largest mobile factory in Noida by Samsung recently, the nation is becoming a manufacturing hub for global giants such as, GE, Siemens, HTC, Toshiba and Boeing, besides others.

Data from the World Economic Forum (WEF) suggests that India's manufacturing sector has grown by over seven per cent per annum on average in the past three decades and accounts for 16-20 per cent of India's GDP. Home to the second-largest population in the world and one of the fastest growing economies, India ranks third, in market size, fifth in demand environment and ninth in terms of the scale of production. The good thing is demand for Indian manufactured products is continuing to rise as the nation is moving towards a more connected economy with about $59 billion investment in infrastructure in 2017.

The growing global component sourcing market has also been a driver of growth for the automotive component industry, thereby also driving related manufacturing growth in the country. While China has historically been at the forefront of this market, in recent years, Indian manufacturers have established themselves as an attractive choice for their competitiveness, quality and consistency. As per data provided by the Automotive Component Manufacturers Association of India (ACMA), the auto component industry's turnover stood at $51.2 billion in 2017-18, a growth of 18.3 per cent from the last financial year. Export of auto components also saw growth by 23.9 per cent to $13.5 billion.

Adoption of agile technologies

With the increased convergence and adoption of disruptive technologies like artificial intelligence, simulation, additive manufacturing or 3D & 4D printing, IoT, Industrial Internet of Things (IIoT), cloud, AR, big data, VR and autonomous machines like robots, connected vehicles, appliances, homes and smart cities, manufacturing as we know is undergoing exponential

change. A report by the Tata Strategic Management Group on the readiness of Indian manufacturing suggested that four technologies will be particularly important, going forward: additive manufacturing, advanced robotics, the IIoT and augmented reality. It is imperative therefore that Indian manufacturers and Tier-1 OEMs embrace and adapt to these changes.

As the manufacturing industry's premier partner for advanced engineering, research and development, product lifecycle management and connected enterprise IT solutions, Tata Technologies recognizes the impact of these disruptive technologies. Through its advanced connected enterprise IT offerings, Tata Technologies offers various services including digital transformation, extended manufacturing solutions, data intelligence, Customer Experience Management (CXM), Supply Chain Management (SCM), etc. to digitally enable the entire manufacturing lifecycle.

Embracing an automated world

As we step into the fourth industrial revolution, we are seeing increased adoption of automation in the workspace to improve productivity. For instance, lights out manufacturing, or fully automated factories run by robotics where materials and products are produced round-the-clock with little human workforce is proving to be a game-changing innovation for the manufacturing sector, delivering high productivity, enhanced quality, lower energy requirements and reduced labour costs. Such technologies are changing the approach from Just-in-time (JIT) delivery to JIT manufacturing.

Human and machine collaboration is also shaping the future of manufacturing. Fuelling this growth requires a fusion of machine efficiency and human intuition. Powered by AI, self-learning, human friendly, collaborative robots (cobots) will empower us to work in sync with machines, driving high performance,

synergy and scale – thereby accelerating the pace of growth. This in turn will lead to a huge growth of safer, supportive, affordable, adaptable and easy to install cobots in small and medium-sized enterprises, allowing humans to be more creative. Machine learning will radically change the manufacturing sector as cobots will be able to diagnose, predict and prevent any technical issues to complete work more efficiently.

Connected computers will intuitively communicate with people and device to make decisions without human involvement. The combination of cyber-physical systems – IoT (things) and the IOS (systems) – will make the smart factory a reality. This will lead to the emergence of smarter machines, making factories more efficient, productive and less wasteful. As the digital transformation initiative gets all pervasive, it is imperative to identify opportunities, convert data into an asset, analyse data to identify patterns and provide real time insights without human bias.

Changes at a policy level

While these new technologies will add a new dimension of growth to Indian manufacturing, there must be a recognition of the fact that change has to come from a policy and a strategy level. It is imperative that the Indian government continues to support this sector by setting up new industries and creating ancillary facilities, infrastructure while linking existing facilities. Side by side, regulatory roadblocks like land and labour laws must be updated while investing in sufficient infrastructure for transport, communication and energy must be created.

To stay competitive and remain an attractive hub for foreign investments in the manufacturing sector, our business leaders must embrace forward thinking strategies. They must modernise legacy systems into digital neural systems. Driven by collaboration and co-creation, such digital transformation can help deliver sustained innovation, agility and higher value. This will boost operational efficiencies, optimise asset utilisation, improve yield, ensure end to end supply chain visibility, improve quality, enhance customer experience and drive strategic business value.

To succeed and thrive in the digitally disruptive market, our enterprises must embrace continuous exploration, look for new exponential breakthroughs, and adopt a culture of bold innovation rooted in excellence. A systematic and outcome-driven digital transformational approach will help enterprises, big and small, drive competitive business differentiation. This necessitates transforming the core operation, integrating diverse enterprise systems, product engineering, and design and experiential platforms. Enterprise leaders need to reimagine the ecosystem and drive differentiated capabilities, new business models and revenue streams while upskilling the talent for shaping the future. Certainly, the manufacturing sector of India has the potential to reach $1 trillion by 2025. The future looks bright. The question is are we ready to embrace the future? IPF

Eight stages of the industrial development in India

While Indian industry jumped from Stage 1 to Stage 5, and is now on to Stage 6, it is yet to fully appreciate and absorb the benefits of the new work standards, which global companies are adopting to do business across country lines. **Prof R Jayaraman** believes India is uniquely poised to adopt Stage 7, in view of the 'knowledge bank' of highly educated and trained IT personnel, with vast global experience.

Prof R Jayaraman, who is currently serving as a Professor of Operations and Supply Chain Management at SP Jain Institute of Management and Research (SPJIMR), Mumbai, has spent almost 30 years in the Indian industry, in various capacities. For 25 years he has worked with companies such as Tata Steel and Tata Communications. He continues teaching post graduate students at SPJIMR in Mumbai.

In the 19th century, India contributed to almost 30 per cent of the world GDP, with no organised manufacturing whatsoever. Industry itself was in a nascent stage. Subsequently, India's GDP went down dramatically, after the colonisation by the British. Recovery actions, initiated by the independent country's first Prime Minister soon stanched the slide, and brought the downward momentum to a halt. We are where we are today, due to the efforts of many Prime Ministers, government administrators, private industrialists, the huge many entrepreneurs who toil day and night in the unorganised sector and the never tiring worker, both skilled and unskilled, who work with largely low technologies even today. The 'industry' sector has contributed about 25 per cent to 30 per cent each year, in the last five years, to the GDP of India, however, the declining trend continues.

Stage 1

Indian economy is a law unto itself. It does not obey many of the conventional thought processes, as to how an economy should progress. For example, the industrial revolution started off as a craft based activity, characterised by highly skilled individuals, who would innovate something like an electric loco or the telephone, and, with others, produce small quantities.

Stage 2

Over time, the activities would increase in volume, with the introduction of more machines and equipment. However, the expansion was limited. And then, Henry Ford happened. The era of mass production dawned on the world, and, with it, a new paradigm was created. Henry introduced mass production, using the automotive assembly line. His black Ford 'Model T' revolutionised industry.

Stage 3

The next concept to be adopted was the 'product mix'. While Henry Ford insisted that everyone should buy only the Model T, Alfred Sloan, at General Motors, saw things differently. He gave a first level freedom of choice. He boosted the idea of the product mix by his policy of 'a car at every price point'. This was sophisticated marketing stuff, for those days. Naturally, this feature whetted the appetites of a growing market, and, soon, technological advancements and operations management driven manufacturing succeeded in creating a

new clientele. Products were streaming out of new plants. Different varieties, different shapes and sizes to meet newly emerging needs. Mass production had matured. The seller's market was in full swing.

Stage 4

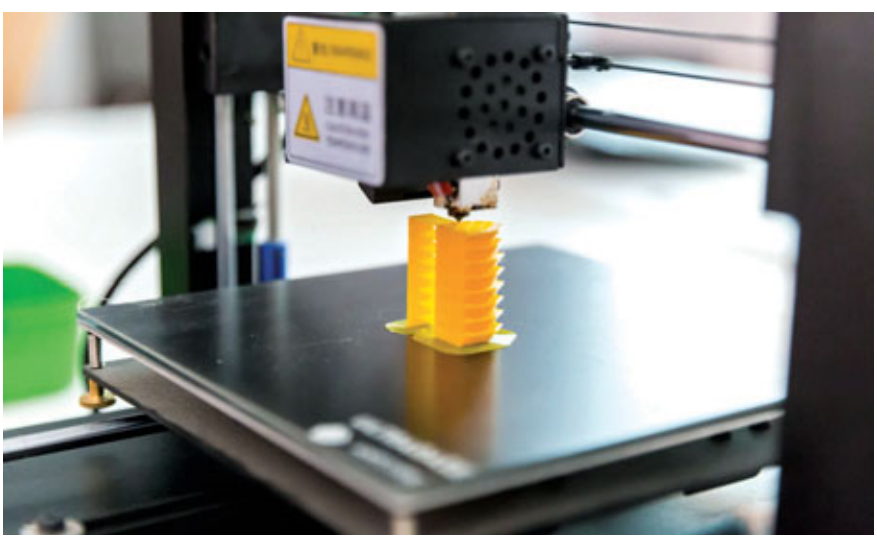
Some years later, Fiegenbaum and Shewhart proposed PDCA (Plan, Do, Check and Act) as a weapon for developing competitive advantage. They sensed that the days of 'seller's market' were coming to an end, and soon buyers will start dominating the market. Thus was the 'customer is king' era welcomed by the manufacturing fraternity.

Stage 5

Dr Deming, Dr Crosby and Dr Juran followed in their footsteps. These quality gurus, along with a slew of Japanese luminaries, like, Ishikawa, Kano, Imai, Taichi Ohno, Eichi Toyoda were responsible for the next revolution in the manufacturing industry. Concepts like statistical quality control, continuous improvement, quality circles, team work, total quality were introduced in quick succession. The Japanese were in the forefront during this era of 'quality revolution'. American companies were growing through new products introduction, expansion of capacity, superior marketing techniques and developments in the transport sector. They captured frontier markets, coming out of the pre-World War II isolation, and became globally active. The American economy grew enormously, as did the Japanese. Globalisation was the next revolution. Japanese plants like NUMMI, the Georgetown plant to manufacture Camrys, takeover of many American companies was a significant development during these years. The legend of Toyota and lean manufacturing flowered.

Indian manufacturers, meanwhile, were shackled by the 'licence permit raj', and could not find any opportunity to grow. The licencing regime was designed with the assumption that every businessman is out to profiteer, in preference to making a profit, and profit became a dirty word. Black marketing, corruption, poor productivity, low availability of goods, together with a pathetic transport system made life difficult for all Indians. It is to the credit of all Indian businessmen that they managed to survive this phase, which lasted from 1947 to 1990. In fact, between 1950 and 1990, the 'industry' and 'services' sector contribution grew from 45 to 65 per cent of the GDP, while the GDP itself was growing.

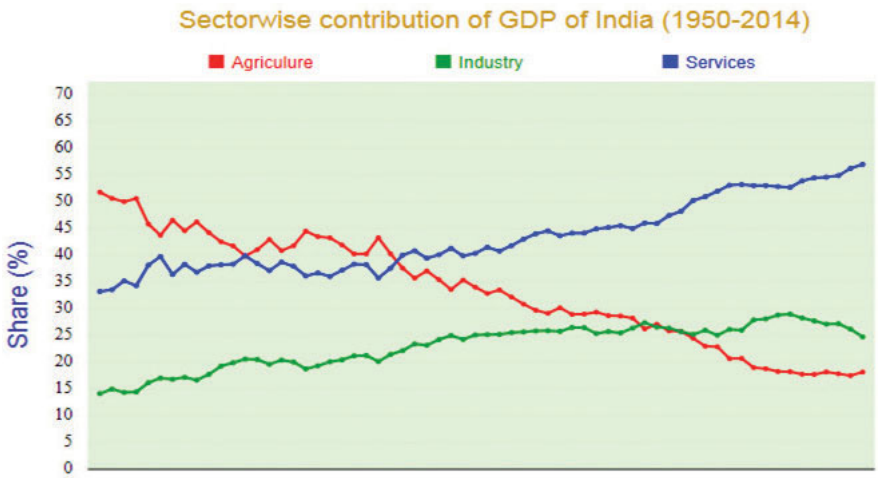
The inefficiencies which were the hallmark of those days left an indelible scar on the industrial culture of the country. However, the business community kept its efforts on. One



such significant action was the visit of an Indian business delegation to Japan, under the leadership of that doyen of public sector management, Dr V Krishnamurthy, to observe TQM and Toyota Production System (TPS), in the land where these originated. They came back with a desire to get into these movements. Soon, many other industrialists followed suit, and over the next twenty years, many large industrial houses adopted the latest Japanese methods to ramp up production. Owing to this peculiar growth path – from large inefficiency to adopting techniques which would give very high levels of performance – there was a leapfrog effect. The Indian industry did not go through the pains of the regular growing up pattern adopted by the American, Japanese and European industries, and went from stage 1 to stage 5. In a matter of about 10 years, Indian industrialists caught up with some of the best in the global business scenario. The fact that many top talented Indians left the country for pastures greener in the USA led to the development of the 'global Indian'. And with a never say die entrepreneurial spirit, Indian business managed to hold its head above water. Prime Minister Narasimha Rao brought in the much needed 'economic reforms' in 1991. Nudged and cajoled by industrialists like JRD Tata, Nani Palkhiwala and others, he sought it fit to end the licence permit raj. This was the same time when TQM and TPS were introduced in the Indian industry.

The period 1991 to 2000 was one of expansion, consolidation, 'catch up', and 'match up', which the Indian industry did very well. In spite of the many hurdles, Indian businessmen created large businesses, with huge expansion activities, through green field plants and mergers and acquisitions, especially abroad, and brought in new technologies and work methods. Indian businessmen were quite active in many parts of the world, in Africa, in Latin America, in the middle east and south east Asia. Funds were brought in from abroad as well as raised from the domestic capital markets, to be invested in productive facilities. Foreign remittances from Indians living

abroad into the country has always been the highest in the world. Aditya Vikram Birla, Ratan Tata, Narayana Murthy and Azim Premji and others have laid a path of investing in foreign shores, which benefited Indian companies, in terms of learning about global work methods, standards, markets and competition. This is an ongoing exercise and is a significant part of Indian industrial activity in all sectors.



Stage 6

Stage 6 of industrial development started off sometime in 1988, when the Malcolm Baldrige Model for business excellence (BE) was revealed in America. Since then, using TQM and BE, many American and other global companies have become highly competitive, sustainable and address the Triple Bottom Line requirements. Indian companies have also adopted these methods now in some measure, although the coverage and intensity leave a lot to be desired. Only some of the larger Indian business groups, and some smaller ones, with the help of organisations like the CII, are using these methods. Many B School students and many employees in companies are largely ignorant of these, which does not bode well for the industry. BE is a holistic approach to business, and, along with the balanced score cards methodology, has helped companies to achieve growth with sustainability.

Stage 7

Stage 7is threatening to dawn. As of now, it still remains in its infancy. This is the world of IoT, digitisation and digitalisation, AI and data analytics – all culminating into Industry 4.0. This could be the future, but, as of now, things are in their infancy.

While Indian industry jumped from Stage 1 to Stage 5, and is now on to Stage 6, it is yet to fully appreciate and absorb the benefits of the new work standards, which global companies are adopting to do business across country lines. India is uniquely poised to adopt Stage 7, in view of the 'knowledge bank' of highly educated and trained IT personnel, with vast global experience. Coupled with a slew of government interventions to remove more shackles and make the country business friendly, with good ease of business atmosphere, the growth is bound to be very high in the coming years. I expect that the Indian industry will adopt the 'softer' aspects of Industry 4.0 easily. This includes AI, programming, internet applications and usage, data analytics, machine learning and digitisation. However, I expect that building plants like what Mercedes Benz, BMW, Volkswagen and other auto companies have already done is still way off. We need to develop engineering skills, technical expertise to operate such highly automated plants, as well as designing them. If one were to see the working of a distribution centre system or the never-ending, fully automated conveyors for sorting being used by Walmart and Fedex, Indian plant designers are quite far away from developing such systems, and it will take them many years, if at all, to do so. On this front, I think we will continue to depend on plant designers and builders from abroad, but, we will write the softwares which run these plants.

Hence, the strategy to be adopted could be two pronged – capitalise on your strengths and improve on your weaknesses. India should develop data analytics capabilities, companies like Mu Sigma are in the forefront. We should also learn AI, develop apps for IoT, learn the multifarious uses of IoT, and machine learning algorithms. Developing superior algorithms will be a competitive weapon of the future. 3D printing is another application, which resonates very well with the Indian cultural ethos.

Stage 8

With 3D printing, one might see the Stage 8 of the industrial development – replacement of mass production by distributed manufacturing, perhaps at the village level. Then, Indian villages will once again prosper. IPF

India, the global auto R&D hub

At least 12 per cent of India's GDP will come from the fast-growing auto industry in the next 10 years. **Ashok Belani** says the auto industry transformation in India will be driven by vehicle electrification, followed by significant growth in shared mobility.

As the India growth story continues to shine, the Indian auto industry is expected to be the one to benefit immensely from this. The rapidly growing Indian auto industry is set to become the third largest market in the world and expected to contribute 12 per cent to the GDP in the next 10 years.

Globally, the automotive industry is being disrupted by three simultaneous revolutions – the electrification of the powertrain, the rise of the autonomous vehicle and the digital revolution, which is paving the way for new user practices.

However, in India these revolutions are shaping a little differently. The growth in economy and the sudden spurt in urbanisation has led to significant increase in pollution and congestion, and decrease in road safety. These inherent sustainability challenges are compelling the government and the industry to adopt corrective measures, which is shaping the future of the auto industry in the country.

The auto industry transformation in India will be driven by vehicle electrification, followed by significant growth in shared mobility, and increase in connected and safer cars. Autonomous driving is expected to follow much later.

Electrification

India is exploring cost-effective and viable solutions to combat excessive dependence on oil and the problem of poor air quality in many cities. Electrification of vehicles in India has just begun with EVs forming less than 1 per cent of the market. However, the thrust by the government to achieve significant electrification by 2030 through various initiatives is generating momentum among all stakeholders.

Shared mobility

The limited and unreliable public infrastructure and the need for last mile connectivity combined with the technology availability has resulted in growing popularity for alternative solutions like cab sharing. Currently at 3 per cent, shared mobility is expected to grow to 15 per cent by 2030.

Connected and safer cars

The government's commitment to improve road safety has resulted in policy measures to include application of intelligent driving and manufacture safer vehicles with features as per international standards. These dynamic shifts in the industry and the legislative demands are forcing all stakeholders to reinvent the traditional business models, which has made investing in research & development (R&D) more and more compelling than ever before.

As per industry data, the R&D spending by large home-grown automotive players such as Tata Motors, Mahindra & Mahindra and Ashok Leyland has increased significantly in the last few years. Although the top 25 automakers have together invested Rs 6,344 crore during FY 2017, but the numbers are still not, as much when compared to

Ashok Belani is a seasoned industry professional and a senior leader with over three decades of experience in the manufacturing sector. He is the Group President and Managing Director of Valeo India Private Limited and a Member of the Board for all Valeo entities in India.

the industry needs.

While the top OEMs and auto component makers have understood the need of innovation to sustain in the fast-changing markets and are making focussed efforts, a large percentage of the industry that consists of MSMEs are yet to catch-up. The positive news is that India is becoming a country of choice for many global auto companies to invest in R&D. In the past decade alone, Maruti Suzuki, Volvo, General Motors, Renault, Nissan, BMW, Mercedes and recently Volkswagen have set-up R&D centres in India.

The availability of skilled work force, the inherent entrepreneurial culture and the frugal mind-set with lower R&D costs and a large potential domestic market has made the country an ideal R&D destination, and has attracted the global players. However, the development of technology and the high-tech industries are still at a nascent stage in the country. The increasing demand for skilled manpower combined with legal, funding and infrastructure challenges are compelling many companies to absorb existing technologies for applications rather than innovation for future benefits. India has the potential to become the global R&D hub for the automotive industry. For this to become a reality, the government, industry and academia should collaborate much more than ever before for creating a well-defined R&D plan.

Government: The government has to work closely with the industry and academia to create frameworks that govern R&D investments, educational

development, infrastructure development, private-public partnership, industry academia partnerships and intellectual property rights. An open, transparent and collaborative approach with all stakeholders for drafting the legislation will benefit everyone in the long run.

Industry: Organisations have to approach 'innovation' in a phased manner. It is important to define the duration and pace of the R&D projects. This definition will help the organisation to control the input costs for R&D initiatives and help them to scrap the projects that are not needed. They should work towards getting the innovation market-ready within the specified time, as soon as it can provide an incremental benefit to the customer. The innovation can then be tested and moved to the next phase for further development based on the market feedback.

Organisations with global presence should tap into their counterparts outside India to leverage higher level of expertise and competencies. They should focus on expanding their R&D operations and implement different approaches to address different markets, such as adaptive R&D for the local markets and innovative R&D for global markets. It is important for the organisations to own and develop a workforce with advanced skillsets to provide futuristic solutions to the customers. They should also focus on partnering technology start-ups for harnessing innovative ideas that can be developed and brought quickly to the market.

Academia: Electrification and connected technologies call for a new approach of curriculum at universities. Therefore, educational institutions should work along with the industry to upgrade and develop a multi-disciplinary curriculum that includes mechanical, automotive, electronics hardware and software as subjects for the students, so that they become industry-ready. Specifically they should work closely with corporates to initiate programmes such as setting up of centres of excellence, mentorship and incubator support for developing and nurturing new ideas. Nurturing talent at an early stage will immensely benefit both the students and the industry.

All stakeholders have to come together for creating and implementing a coherent R&D strategy road map for development of both short-term and long-term, so that it benefits the auto industry both within the country and across the globe. India has a lot of potential and what is needed is a concerted effort to transform India into a global R&D hub. IPF

Intelligent manufacturing of today

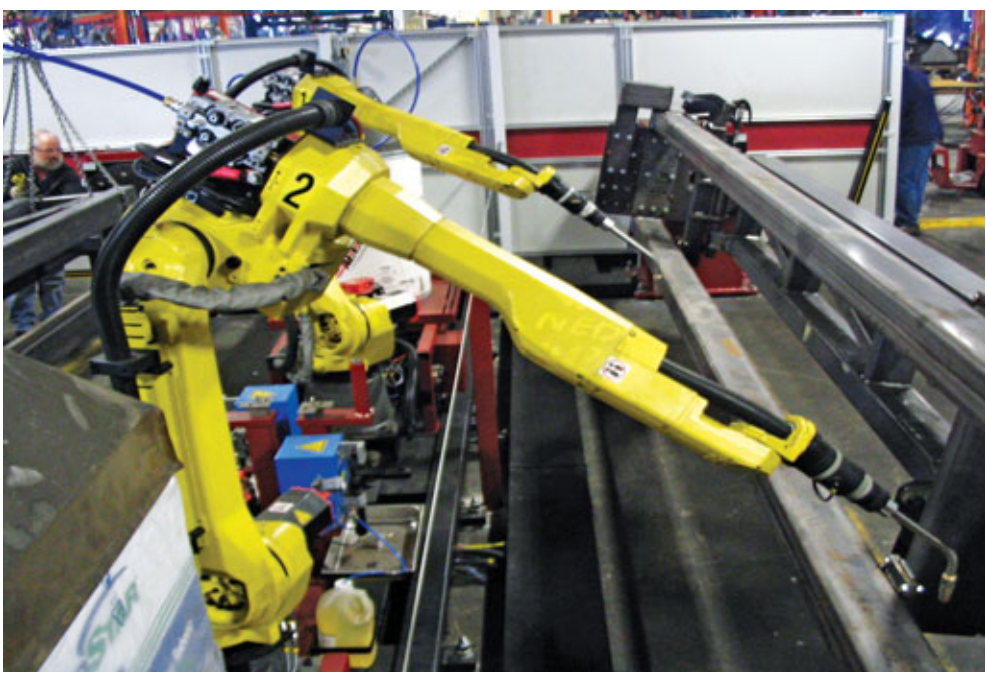
At present, manufacturing companies are adopting advanced manufacturing technologies not only to remain competitive in the game but also to explore developed market through technologically advanced products, explains **Sanjay Chincholikar**.

The Indian manufacturing industry has gone through various phases of development since independence. Taking the growth story forward, Indian manufacturing companies are adopting strategies, wherein they are improving efficiency and productivity through sustained focus on advanced technology. Growing consumption story, growing middle class and young population make India a preferred investment destination and provide an excellent opportunity to manufacturers. Technological advancement has the true potential to take the Indian manufacturing industry to a next level.

While earlier manufacturing was mostly about the use of machinery and labour, manufacturing is more intelligent today. In this new age, manufacturing companies are adopting advanced manufacturing technologies not only to remain competitive in the game but also to explore developed market through technologically advanced products.

By incorporating advanced technology, companies are realigning their growth strategies with that of Indian government, which is projecting India as a manufacturing hub through its 'Make in India' (MII) campaign. Through this initiative, it is expected that the manufacturing sector in the country could reach $1 trillion by 2025, with the sector accounting for around 25 per cent of the GDP and creating 90 million domestic jobs by that period.

Apart from the MII campaign, there are several other steps being taken by Government of India on policies to attract investments, to encourage local manufacturers to become global, to promote healthy environment for the growth of manufacturing sector. Some of the key initiatives taken by the Government of India are reduction on custom duty, increased export incentives, eased foreign direct investment (FDI), tie up with foreign companies for partnership and technology transfer, developed industrial corridors, improved transport and infrastructure, focus on bringing down logistics cost and many more.



Besides this, government must focus on education quality, create more and more scientists, and encourage research and innovation which can further boost Indian manufacturing. It should concentrate on training people with an intention to increase productivity and encourage large scale set up so that the global market can be tapped. Government should also look into bringing down the cost of capital by lowering interest rates and make policies to improve ease of doing business. The best way is to study and follow practices adopted by developed countries and implement them. Making land available at low cost, reducing transportation cost are the key areas which can make Indian manufacturers competitive.

Sanjay Chincholikar is Senior Vice President at Cosmo Films Limited. His career spans over 35 years in the field of manufacturing, engineering, projects, quality control, application and business development, sales and marketing. Currently he heads operations of India Films Business and is responsible for manufacturing, engineering, research and development, quality assurance and technical services function. Sanjay is a Mechanical Engineer as well as a B.Com graduate. He is a post graduate in sales and marketing and holds a Diploma in management, business and factory management.

The current situation looks favourable for Indian manufacturing industry to grow. Factors like spillover effect from dollar appreciation, trade war between USA and China, revival of demand from European Union can stimulate Indian exports.

Business strategies to make a mark globally

Indian manufacturing companies are consistently working on product innovations as well as tech-based innovations to make a mark in global manufacturing industry. Adoption of digitisation in manufacturing facilities has converted every challenge into opportunity with its unique approach that showcases:-

a. *Leading through innovation:* Developing a strong innovation culture is vital for both our nation and industry today. Product innovation is the key to success for manufacturing industry. It is a continuous process and is focussed towards addressing the emerging needs of the industry by developing innovative and speciality products. Here the role of R&D comes largely into play. Indian manufacturing sector needs to increase its R&D spending in order to have better innovative products and technology.
b. *Digitisation of business processes:* Companies are adopting technologies to increase business productivity through cloud based solutions for mission critical applications and advanced data processing. With digitisation has come efficiency in conducting business. It has transformed various processes like inventory management system, internal process, HR system for managing employees' life cycle and customer relationship management system.
c. *Digital transformation in manufacturing:* For manufacturing companies, it has become important to redesign and redefine the manufacturing process with the use of available technologies to accelerate the growth and become more efficient. The companies are taking advantage of technological advancements and are adopting artificial intelligence (AI) for forecasting, robotics for process automation, manufacturing execution system (MES) for real time controls of line and machine learning for maintenance in their manufacturing facilities to increase productivity. These disruptive technologies today are one of the key drivers of economic growth globally and are also transforming the country's manufacturing sector.
d. *Customer centric approach:* Being customer centric is something more than offering good service to your customers. Manufacturing companies are adopting new tools and seeking new ways to satisfy the needs of their customers. It starts with understanding the unmet needs of the customers and then coming up with customised innovations to fill the gap. Many companies are adopting tools like Customer Relationship Management (CRM) for higher level of customer engagements and managing customer relations. CRM system reduces non value adding conversations between the customer and the company to almost zilch, as all the required information could be sent out to the customer by auto email alerts, or is available for him to retrieve online. For customers, this includes complete visibility to stage wise progress of orders right from order receipt to order dispatch as well as claims status if any.

"Product innovation is the key to success for manufacturing industry. It is a continuous process and is focussed towards addressing the emerging needs of the industry by developing innovative and speciality products."

Importance of R&D to make India an R&D hub

Research and Development plays a critical role in the process of product innovation, be it developing a new product or improvements in existing products. Manufacturers with constant R&D investments are more likely to succeed in the global market. It is primarily investment in technology advancements, adequate education & training of employees and future capabilities. As product innovation takes place, companies adopt new manufacturing processes to increase productivity. It is all about finding new ways to build up their competitive advantages. To make India an R&D hub, it is critical for the Indian manufacturing companies to value the importance of R&D and invest in its infrastructure on an ongoing basis.

Impact of new technologies on the packaging manufacturing industry

Technological advancements are happening in leaps and bounds in the packaging industry and with new technologies coming into effect, the efficiency of the industry has only increased. To initiate ease of doing business and augment productivity, most of the manufacturing companies in the packaging industry are adopting technologies ranging from digitisation, automation to robotics.

Packaging companies are incorporating automation in manufacturing process. There is a complete synchronisation of manufacturing right from raw material feeding to final mill roll production. Inventory management through bar-coding and RFID help reduce the loading and unloading time of materials and provide complete traceability.

Business intelligence tool ensures availability of all decision enabling business reports which help in real time decision making. Effective online supplier performance evaluation is done through SAP for better and consistent product quality, and services.

The companies are also planning to implement the planning automation tool including one for raw materials requirement as well. Through adoption of manufacturing execution system (MES), it will provide all the real time controls to run the lines with maximum throughput.

Trends in packaging industry

The packaging sector is in a constant state of flux as brands are engaging with customers like never before. Packaging is playing a pivotal role in helping brands differentiate their product offerings. Flexible packaging is the order of the day and is resulting in increasing packaging film consumption. Some of the broader trends in packaging industry can be summarised as follows:

- Light weight packaging to reduce cost and waste
- Enhanced shelf life packaging especially where companies are looking to develop a global portfolio
- On-the-go packaging; packaging that is easy to hold, open, use and reseal because of lifestyle changes
- Packs designed for digital shelves with labeling that can double up as a billboard
- Sustainable packaging; though cost-effective, sustainable alternatives are yet far and few.

Sustainability: Need of the hour

Sustainability is gaining momentum globally and has become increasingly important for packaging films manufacturers too, as demand for more sustainable systems emerge from all sections of the society which include consumers, manufacturers as well as retailers. As industry is acknowledging the concern towards recyclability of plastic and plastic films due to end-of-life disposal problem with plastics, packaging companies are gravitating towards mono-material structures to facilitate recyclability.

The other key initiatives taken in this direction are support to down gauging, oxobiodegradable films, support to water based ink printing and use of 100-percent water based coatings. In addition, effluent treatment plants at manufacturing units are being installed along with natural lighting, water recycling and rain water harvesting systems. IPF

TECH BYTE

Lead screw nuts made of iglidur J200 extend service life three-fold

With the new durable material iglidur J200, igus expands its largest range of lead screw systems in the catalogue and online. The advantage of the online shop: Configure high helix, trapezoidal and metric threads online with the lead screw configurator and predict the service life of the nut. In addition to the three common lead screw materials, depending on requirements, the designer can choose from nine different lubrication-free and maintenance-free nut materials. This now includes the high-performance iglidur J200 material with superior wear-resistant properties.

Adjustable lead screw drive systems for fast or slow positioning. They convert rotational motion into a linear movement. igus self-lubricating lead screw drives are used in a wide range of applications, including extendable platform steps on commuter trains, 3D printers and valve actuators and fittings in the chemical and process engineering sectors. To address these diverse functions, the engineer can configure their design online in the igus lead screw configurator, choosing from a wide variety of drive systems and technologies. In addition to metric threads, trapezoidal and high helix lead screw threads are available. The latter can replace toothed belt or pneumatic drives. With more than 70 different lead screw pitches, 3 lead screw materials and 9 different nut materials – such as the new durable iglidur J200 – in 10 different versions, igus offers the widest selection worldwide with more than 5,000 lead screw combinations. Igus lead screw shop enables the engineer to calculate the expected service life of the drive system. Another online tool is the lead screw configurator. Here

the designer can simulate the movement of the lead screw at both ends online, create a drawing.

The new lead screw nuts made of high-performance iglidur J200. In tests at the igus laboratory, this material achieved a service life three times longer than that of a standard material for nuts running on hard-anodised aluminium lead screws. When used in combination with aluminium, this new nut material reduces noise, dampens vibration and is lightweight. A typical application example can be found in train and aircraft door systems, as well as applications in the handling and automation sectors. Cylindrical or flanged lead screw nuts are available to order from stock, which are also suitable for use on high helix and self-locking trapezoidal threads. IPF

Sustainability: A win-win strategy for Indian manufacturing

Emissions of Carbon Dioxide and other greenhouse gases caused by activities performed by human beings are responsible for increased climate change and global warming. These emissions are also increasing due to our lifestyle and our economic systems. And yet, the global 'climate budget' is limited, explains **Bappa Bandyopadhyay**.

Bappa Bandyopadhyay is the Business Director of Operations and Projects at Henkel Adhesives. joined Henkel in 2013 in his current role and in addition to being responsible for the 9 adhesives manufacturing sites across India, has led the development of the green field adhesives manufacturing site from scratch. He is currently in the Board of Directors of Henkel Adhesive Technologies India Private Limited and Henkel Anand India Private Limited. Bappa holds a Bachelor's degree in electrical engineering and an MBA from universities in India.

The UN's global Paris agreement on climate change represents a commitment by the community of nations to limit global warming to significantly less than 2°C. To achieve this, carbon dioxide emissions must be reduced by 80 to 90 per cent between now and 2050.

India is committed to the two-degree target. Three main levers are available to stop global emissions from increasing further, and to ensure emissions are reduced by the required amount, namely increasing efficiency by saving energy and raw materials, decarbonising by replacing carbon dioxide in energy and raw materials, and using CO_2 as a resource by converting it into raw materials. Considering the need to reduce emissions and decarbonise the economy, companies need to become climate positive in their operations and drive significant progress in other relevant areas of our value chain.

We are clearly living beyond our means. A recent study released by the Cambridge University reveals that the biocapacity consumed by humanity has gone from 74 per cent in 1961 to over 170 per cent in 2018 – this huge increase in our footprint in a little over 50 years! Ever since the 1980s, environmentalists across the world have raised a rallying cry for sustainability. It started with Reduce, Reduce, Reduce. The 1990s was all about Recycle and Reuse, and the 2000s have seen the addition of 3 more 'R's – Recover, Redesign and Remanufacture. This approach is critical, as technology is evolving at a breakneck speed and devices that were relevant just a decade ago are today no more relevant. For example, the slim and compact camera, which was in demand just a few years ago has been replaced by a multifunctional mobile phone. Now just imagine all those unwanted cameras ending up as scrap/waste. This makes one wonder, if there is a better way to handle redundancies, while keeping pace with technological advancements.

Sustainability as a business sense is critical, as it creates process efficiencies that utilise raw materials more efficiently to save cost as well as reduce the impact on the environment. Sustainability covers a whole host of activities right from sourcing raw materials to energy and climate, sustainable workforce with quality education, safety, health and environmental protection (SHE) to product safety, transport and logistics.

Conversion to green power

While converting to green power, it is important to consider the country's

legislation and infrastructure. Considering this, a combination of the following three models could be adopted to convert to green power. On-site production of green power, for example through solar panels installed on roofs, can be undertaken by plants themselves or in collaboration with external partners through long-term Power Purchase Agreements (PPAs). Direct purchase model involves purchasing green power either straight from the grid of a local energy utility company or within the framework of a long-term PPA. If the two options mentioned above cannot be implemented at the manufacturing site, meaning that one cannot purchase the electricity directly, the green power requirements can be procured virtually. This can be done by entering into long-term PPAs that feed green power from specific plants into the supply grid – in an amount that is equal to the amount we consume. If this is not possible, one could purchase the appropriate green power certificates.

Companies which generate their own energy could aim to replace fossil fuels with climate-neutral alternatives, such as biomass and in doing so, companies can endeavour to be 100 per cent carbon neutral in their operations.

Carbon dioxide emissions during product use

The product use phase, generally, has the greatest impact on carbon footprint. For this reason, companies should offer its expertise to help our customers and consumers save CO_2. For products whose applications are directly linked to the use of energy, companies can contribute toward reducing energy usage and the associated carbon footprint through innovations that enable the efficient use of energy. At the same time, they can develop specific communication campaigns to encourage responsible behaviour during product usage.

Companies should offer products that make a relevant contribution towards avoiding energy consumption and CO_2 emissions. For example, building lighter vehicles or offering products in smaller pack sizes. Such 'use as per need' pack size enables ease of use and reduces waste.

Carbon dioxide emissions from raw materials

The raw materials that an organisation purchases have a decisive impact on the carbon footprint along its value chain, which is why it should ensure that its suppliers and contract partners set efficiency targets that are as ambitious as its own. Organisations should work with its partners to develop innovative raw materials/ solutions. It should discuss ambitious targets for reducing the carbon footprint of its raw materials portfolio with its suppliers. In order to reduce emissions, it could study its raw materials portfolio to see where it can replace carbon-intensive raw materials with low carbon alternatives.

"Companies which generate their own energy can aim to replace fossil fuels with climate-neutral alternatives, such as biomass and in doing so, companies can endeavour to be 100 per cent carbon neutral in their operations."

Organisations could also partner with government bodies or other organisations in some form or the other to develop technologies that enable the use of carbon dioxide for positive outcomes. A case in point is the power in power-to-X, which is green power that is generated through water electrolysis and stored as hydrogen. 'X' represents the numerous valuable raw materials into which this hydrogen can be converted in conjunction with CO_2 – for example, gas fuels, synthetic fuels or chemical raw materials, such as surfactants or plastics. These raw materials are climate-neutral if made from carbon dioxide taken from industrial processes. They are climate-positive if carbon dioxide from the atmosphere is used as the resource. Some entities are working towards using power from renewable energy sources, this technology makes it possible to blend CO_2 with other chemical elements and convert the energy it contains. If used on a wider scale, the technology can help to significantly cut CO_2 emissions in the atmosphere, reducing the carbon footprint of our value chain in the future. Over the long term, it could even make it possible to extract more CO_2 from the atmosphere than is emitted into it, making a positive overall impact on the climate.

Product innovations

An organisation's products should help to decouple quality of life from resource use by offering customers and consumers more value and better performance at a smaller environmental footprint. They should focus on innovations that help its customers and consumers reduce their energy usage and thus their carbon footprint, and developing new products that use fewer resources. It should also help in improving the overall sustainability profile of products and examining whether it can spotlight certain product features – compatibility, packaging solution or environmental – for each product category and market.

Today, researchers and inventors are being encouraged to think of a product lifecycle as one not from cradle to grave but from cradle to cradle. There is a need to make products eternally reusable. It may not be possible in the case of every product currently. However, we should keep looking for solutions to address this issue. Sustainability needs a conscious endeavour to innovate and develop alternatives. The criticality and importance to a country like India cannot be overstated. India is today competing for a piece of the global manufacturing pie. Initiatives like Make in India bring with it a whole host of business opportunities to service the 7.6 billion strong global population. However, we need to take care that these are manufactured using environmentally responsible business practices. IPF

Green growth is the future of manufacturing

With the growing number of industries, India's environmental concerns are also increasing and need to be checked. **Namitesh Roy Choudhary** says India's manufacturing sector is in a continual state of transformation and in the era of sustainable development, manufacturers are embracing the new paradigm of green growth to create environmentally conscious industrial operations for the future.

Namitesh Roy Choudhary is Vice President, PTSE at LANXESS India. Backed by nearly 30 years of experience, Namitesh Roy Choudhary is currently the Vice President of Production, Technology, Safety & Environment (PTSE) and Capital Investment, LANXESS India. In this capacity, he has led and executed several projects at the Greenfield LANXESS site in Jhagadia in Gujarat, India. These include setting up of the ion exchange resins plant, compounding facility for high performance materials and relocation of the rubber chemicals and rubber compounding facilities. Roy Choudhary is a post graduate in Industrial Engineering Management from NITIE, Mumbai and a graduate in Mechanical Engineering from the prestigious Indian Institute of Technology, Kharagpur.

As a developing nation, India is making huge strides toward the development of the manufacturing sector, realising its potential to contribute toward the country's economic growth and amount of employment it can generate. In India, manufacturing is emerging as one of the high growth sectors due to increasing number of educated population and skilled labour. There is potential for the sector to account for 25-30 per cent of the country's GDP and create up to 90 million domestic jobs by 2025. While growth of manufacturing is necessary for the economic development, it is also essential to look into the challenges that emerge with it. With growing number of industries, country's environmental concerns are also increasing and need to be mitigated. The government is also supporting growth of the manufacturing industry by conducting various initiatives but at the same time pushing manufactures to develop sustainable framework.

India's manufacturing sector is in a continual state of transformation and in the era of sustainable development, manufacturers are embracing the new paradigm of green growth to create environmentally conscious industrial operations for the future. In all these years, businesses have adopted a quantity-oriented and fossil fuel-driven growth model which has largely contributed toward their economic endeavours but not addressing adequately the ecological considerations. Hence, being compelled to develop a sustainable growth framework.

Companies have observed that only economic pursuit is no longer sufficient in this age of sustainable development, as it has become essential for them to attain the business objectives while meeting the needs of environmental safety. Businesses are going through a phase of evolution which is considered as significant as industrial revolution where the emphasis is more on 'green manufacturing processes'. Companies are increasingly convinced that it's in their interest to take care of the environment and invest in green practices. Hence, they are purposefully adopting sustainable business processes.

In green manufacturing, production processes are aimed to reduce pollution; products are made from sustainable materials, while waste is reduced through re-manufacturing, reuse and recycling. Besides its

benefits to the environment, it can reduce the production cost of businesses enabling them to potentially increase revenue. The following methods are adopted by companies to incorporate sustainable processes in business operations.

Conducting an energy audit

Conducting an audit to incorporate productive and energy efficient practices in manufacturing can dramatically reduce the production cost in a shorter time span and create a positive impact on the environment. Companies are conducting energy audits to discover new insights about the utilisation of energy in the production to understand the area where improvement can be done to save energy and achieve production efficiency. With a focus on achieving sustainable development, companies are proactively improving their utilisation of energy by making every possible change. From utilising programmable thermostats that reduce energy waste to replacing incandescent bulbs with LED fixture and star ratings of electrical gadgets etc., companies are taking every step ensuring optimal use of energy resources to increase energy efficiency.

Incorporating sustainable manufacturing processes

In order to tackle the unfavourable climate change, companies are finding new ways to incorporate sustainable manufacturing processes in their business operations. Companies are aiming to manufacture products that are ecologically sound and use production method which causes a less negative impact on the environment while ensuring the optimum use of natural resources. Across the globe, manufacturers from various sectors are innovating alternatives to burning fossil fuel to reduce the carbon emission. World's leading companies have started incorporating technologies like renewable fuel based co-generation plant and renewable sources like solar thermal systems to make their manufacturing plants fully energy sufficient and equipped with self-sustaining facilities.

Many organisations are also implementing alternatives for power generation in order to increase production and reduce the energy usage. These alternatives are significantly contributing toward slowing the impacts of climate change caused by manufacturing processes. Also, various industries are building environmentally conscious strategies to dispose of solid, special, or hazardous wastes generated during the manufacturing processes. With a vision of maximising operational material value and minimising the overall environmental footprint, organisations are conducting zero waste initiatives which are aimed towards reducing and recycling of production residuals to achieve environmental compliance.

In FMCG sector, producers and manufacturers of the consumer goods are developing and implementing solutions that optimise raw materials at their fullest potential to avoid wastage. Such organisations are reaching its zero waste goals by developing a safe, economical and compliant programme that facilitates proper disposal or recycling of the product residue.

To turn the vision of sustainable future into reality, global chemical companies have also adopted an eco-friendly approach. By incorporating processes like waste water treatment and zero liquid discharge, many companies have raised the bar of sustainable development in the chemical industry. The wastewater treatment process is utilised to recycle the wastewater discharges from the production processes with the help of technologies like reverse osmosis that purifies water to a point where it is completely recylcable. Also, zero liquid discharge process further ensures that virtually no liquid is discharged from the site. The initiative to treat the wastewater and achieving zero water discharge not only prevents contamination of conventional sources of water but also facilitates the minimisation of water footprint.

Producing and selling eco-friendly products

Taking a step further into green manufacturing, many companies are delivering products which boast of excellent green credentials. Previously, products consisted of non-biodegradable and toxic chemicals. For example, washing detergents contained dispersing and complexing agents which persisted in the environment for a long time and sometimes leached into groundwater causing damage to the natural habitat. But now, chemical companies have taken initiatives to develop eco-friendly agents which can be used in washing powder or detergents making them biodegradable and much safer for the environment. Companies have started taking environmental responsibility more seriously as they are purposefully manufacturing products which are safe for the ecology.

While green manufacturing fundamentally facilitates environment-friendly operations, it can be troublesome for companies as it costs them a significant amount of money. In the transition phase to green manufacturing, companies have to locate funding sources to finance the transformation and many companies find it difficult to do that. Additionally, to ensure the smooth functioning of newly installed technologies, businesses have to invest in educating the employees on how to work in the new green manufacturing environment. Surviving through the transition is a tough phase for businesses but it is a worthwhile business pursuit as it will benefit the organisation and decide the long term survival. The future of manufacturing is all green. As these green business opportunities continue to push sustainability up the manufacturing agenda, there is a need for the industry to collectively become more outward-looking and forward-thinking, so that the manufacturing plant of the future is one that puts a low-carbon, resource-efficient economy first. IPF

Digital progress of Indian manufacturing industry

'Make in India' has encouraged global automotive companies to expand their footprints in the country and localise manufacturing. **Suresh KV** says National Investment and Manufacturing Zones are also being established to create an ecosystem for industries in India. The National Manufacturing Policy, which was introduced in 2011 aims to increase the share of manufacturing industry in India's GDP to 25 per cent and create 100 million jobs by 2021.

Suresh KV is Country Head of ZF India. Before joining ZF KV has held various positions in his career of over 25 years. His last stint before joining ZF was with Hansen Drives Ltd, where he worked as General Manager, Operations Centre (2007-2010). KV joined ZF as an Executive Director of ZF Wind Power Coimbatore Ltd in 2010 and became Country Head for ZF India in 2015. He has done a post graduate diploma in management from Mumbai's SP Jain Institute of Management & Research.

India is one of the fastest growing economies in the world. The Gross Domestic Product (GDP) was $2,597.49 billion in 2017 and the manufacturing sector contributes almost 18 per cent to the total. The Indian manufacturing industry provides employment to almost 24 per cent of the country's population. According to a report by Indian Brand Equity Foundation (IBEF), the Indian manufacturing sector has the potential to reach $1 trillion by 2025. With the country catching up fast on technology aspect and with the advent of Industry 4.0 there has been a huge shift in the manufacturing processes. Indian manufacturers started making optimum use of the latest technologies like additive manufacturing, robotics and automation to increase the productivity of their outputs whilst significantly cutting costs.

The policy regulations introduced by the government of India is also one of the biggest reason for the growth of the manufacturing sector. 'Make in India' initiative has had a considerable impact on the industry. It has encouraged global automotive companies to expand their footprints in the country and localise manufacturing. Through the subsidies, Indian companies are also encouraged to increase their production scale. National Investment and Manufacturing Zones are also being developed to create an ecosystem for industries in India. The National Manufacturing Policy, which was introduced in 2011, aims to increase the share of manufacturing industry in India's GDP to 25 per cent and create 100 million jobs by 2021.

Advantages offered by India

Over the years, the ease of doing business has improved significantly. With changes like deregulation of FIPB (Foreign Investment Promotional Boards) and allowance of 100 per cent FDI (Foreign Direct Investment), it has become easier and convenient for foreign players to invest in India. Many states in India like Gujarat, Tamil Nadu and Telangana offer significant policy changes which makes it simpler to procure land, get permits and set up their facilities quicker.

In India, labour/workforce is readily available and the nation is a talent pool of engineering competency. Further, through the 'Skill India'

initiative, people are given proper training in different subsets of manufacturing which is increasing their employability. Through this initiative, it has become possible to harness the best of talent in the country to work for the manufacturing sector. By optimally using the strengths of India's demography, the country can achieve its full manufacturing potential.

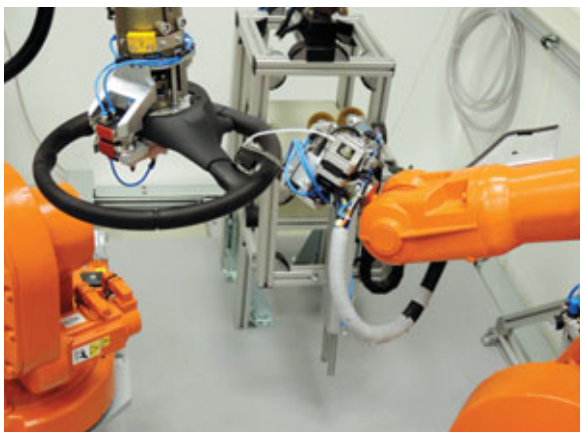
The implementation of GST has also been a boon to the manufacturing sector. The removal of excise duty has significantly reduced the tax burden. GST has provided companies with a single point registration and reduced bottleneck checks. In the long run, GST will improve the volume sales as well as profit by reducing the costs of manufacturing and distribution.

Digital revolution

The digital revolution too is transforming industrial technology and heralding unimagined possibilities in terms of technological advances. With digitisation coming into play, advanced technology and solutions from all over the globe are available for use. The amalgam of information technology and manufacturing gave birth to Industry 4.0. Industry 4.0 is a buzzword in our industry today because it has brought in various advanced technological solutions for manufacturing. It has brought together robots, data and connected devices for creating a productive environment. It has also streamlined operations and offered new business opportunities. In this competitive market, it is crucial for companies to keep up with the pace of technological advancements and hence Industry 4.0 is very relevant for all companies. It is estimated that 65 per cent of manufacturing companies in India will have high levels of digitalisation by 2020.

The implementation of industry 4.0 has helped Indian companies to be at par with global standards.

Integrating automation and robotics in manufacturing facilities has helped companies in increasing the production output considerably whilst reducing the production cost. It has also helped manufacturing companies in utilising their shop floor space optimally. Automation is also precise and repeatable. It ensures that the product is manufactured with the same conditions and process every time thus resulting in minimal line rejections. Industrial Internet of Things (IIoT) is a core constituent of industrial transformation efforts across the globe. IIoT today is helping organisations to significantly reduce the downtime. In future, IIoT will help companies in identifying new business opportunities whilst simultaneously mapping customer demand trends. IIoT will further help in maximising asset utilisation and enhance product innovation process.



Another aspect, which is important for the sector is R&D (Research & Development). Innovation through R&D can be a game changer for companies. Furthermore, the digital era has opened up many aspects of manufacturing R&D for exploration. With artificial intelligence coming into play, manufacturers can work out different permutations and combinations to improve their products and then produce the one that suits them best. With VR (Virtual Reality), it has become possible to understand the products inside out before it is even manufactured. These technologies have allowed companies in analysing their designs before finalising the product and also helped in saving costs of making quality prototypes.

The rapid development of India's infrastructure is also a growth driver for the manufacturing industry. The quality of the infrastructure in a region will be a key factor for investment in that region. With projects like Sagarmala and Bharatmala, the Indian infrastructure is steadily getting a facelift. Faster and easier movement of raw materials will aid in increasing production and maximising output. It will also fasten the distribution process to end customer and reduce the factory to outlet time.

Manufacturing sector also contributes significantly to the export market. According to a report by Indian Brand Equity Foundation (IBEF), India's merchandise exports grew 9.78 per cent year-on-year to $302.84 billion in 2017-18. Merchandise exports recorded a 12.54 per cent YoY growth to reach $164.04 billion during April-September 2018. Owing to advancements in technologies and ease of doing business, Indian companies are today able to comply with global quality standard whilst maintaining cost competiveness. While the manufacturing industry is on a path of advancements, it is also of utmost importance to develop sustainable model of manufacturing practices for the future. With the green mindset becoming increasingly important, it has become imperative for companies to reduce their carbon footprints. Companies can achieve this by optimum utilisation of resources like conserving water through rainwater harvesting, recycling and reusing of materials, and through eco-friendly waste management practices.

In conclusion, the Indian manufacturing industry has seen a lot of development over the decades, but it does not stop here. With further technological disruptions like Industry 5.0, newer policy frameworks and increased investments from foreign investors will act like a catalyst in carving out a brighter future for manufacturers in India. IPF

Manufacturing industry and the urbanised worker

The advent of affordable technology and lightning-fast connectivity has emerged out of the cyclonic evolution and bloodbath in the telecom sector. **Mayank Arora** explains this has led to mobile tariffs at rock bottom price and within the reach of even poor people.

Mayank Arora is VP-HR at Mrs. Bector's Food Specialities Ltd. He is a global HR Professional with 10 years of experience with various functions and HR domains. He has proven abilities in effective communication across different levels and cultural boundaries, stakeholder management and resource development. Mayank is an MBA in HR, law graduate and MA in law from National Law University, Jodhpur and holds a Master's in Labour Laws and Labour Welfare from Pune University. He also has a Master's in Business Laws from National Law School Bangalore.

Forty-year-old, Sonu works at a food manufacturing company for the past one year. He was appointed as a production associate when he was 20 years old and gradually grew over the years to become a production supervisor last year. Starting from a humble beginning as a factory worker, Sonu today is a family of four people and is happy about his workplace. His children go to a private school. And all this has happened with the advent of digitisation, which has helped him to explore for opportunities, which was not the case earlier.

He is aware of new openings in his field of work, the salary structure and market compensation that his role attracts. One of the key reasons for his promotion at his current workplace has been his awareness of opportunities, which he keeps updated through internet and mobile. He got connected with his colleagues and his peers in the industry through Whataspp, Facebook, where he is part of several groups, where he learns about his sector and its opportunities. This has helped him to search for a new job, but his organisation wanted to retain him and that is how he has been able to move up the ladder.

The above is not a fictional account but a reality that is hitting the manufacturing industry with the advent of affordable technology and lightning-fast connectivity that has emerged out of the cyclonic evolution and bloodbath in the telecom sector, which has led to mobile tariffs at rock bottom price and within the reach of even poor people.

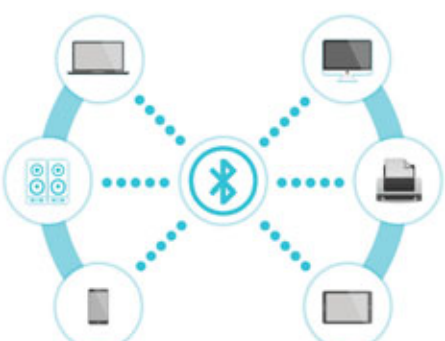
Till few years back, the face of the industry was not only conventional but also quite rudimentary. However, with workers now having access to best manufacturing practices and exposure to job opportunities, the sector is competing with others for better pay and working conditions, a paradigm shift which was never heard off in the manufacturing industry. If the HR fraternity does not wake up to this reality, the talent story is just going to intensify in the days to come. The workers of today are not necessarily unionised and looking for adequate wages and good working conditions but are also aware of their skill sets and are thinking progressively to move-up in their career on their merits.

Many HR enthusiasts and thinkers have almost run out of ink on devising ways and means to hire and engage the talent that would enable organisations to gain a competitive advantage. However, this narrative has only cascaded to managerial and leadership levels. Besides, there is a new emerging zone of skilled and well-connected workers like Sonu who, so far being locals and vernaculars had missed the wagon of opportunities

and career advancement. They mostly come to jobs through mass hiring at facilities which open shop in their catchment and find their way to reach a second line of hierarchy closer to the wee end of their careers if they survive the lay-offs and closures, even industrial action in some cases. But the tide is slowly turning towards skilled workers being critical for organisational resources, especially the ones who are adept at operating sophisticated machinery and also those who deliver strong economic value for their ability to run critical manufacturing processes and troubleshooting for these manufacturing. On one side, there is continued evolution of this segment, while on the other side, there is also extreme thrust across all quarters of government, state or central agencies to create jobs and skill, reskill and upskill new workforce joining the manufacturing sector. This is partly also because agri-economy is under stress and is unable to sustain the growing headcount in the family. Even with increase in MSPs and other measures by the government, there is still a huge supply chain gap from farm to the plate, making it unviable for agri-based families to stick to their agriculture income and sustain their family. Consequentially, what we see today is an influx of talent moving out of farms to the factories, running complex machines and operations, with or without a formal qualification under their belt.

The reasons why this section of talent is now open to attractive opportunities outside their catchment and even states in most cases are manifold. First is the wage difference, which differs significantly from state to state in the country. Second is the communication and the digital revolution due to affordable internet and accessibility, and reach to social media. It is unassumingly acting like a virtual global employment exchange, connecting skilled workers to opportunities not only within the country but also overseas. In many cases, there is also a newfound openness to travel and embrace new places and cultures that is driving them out of their hometowns and comfort zones to travel outside and explore what is best for their career.

Some would argue that expanse of working class population and the unassuming revolution may take years to catch on before we actually feel there is a paucity of talent to attract and retain skills at factories and operations, But if we take a close look at it, we find that this trend is fast catching up. The proof exists in circumstantial evidence. The consumer durable industry is growing at a rate of 41 per cent CAGR. This is happening when agri-profitability is stagnant or is depleting. Our country is also the biggest and the most attractive market for mobile handset industry, which is growing at 14 per cent every year. Reliance Jio touched



a 250 million mark since the day it was launched in September 2016. India is not only the country which has a major workforce and working population but also one of the biggest consumer base as well.

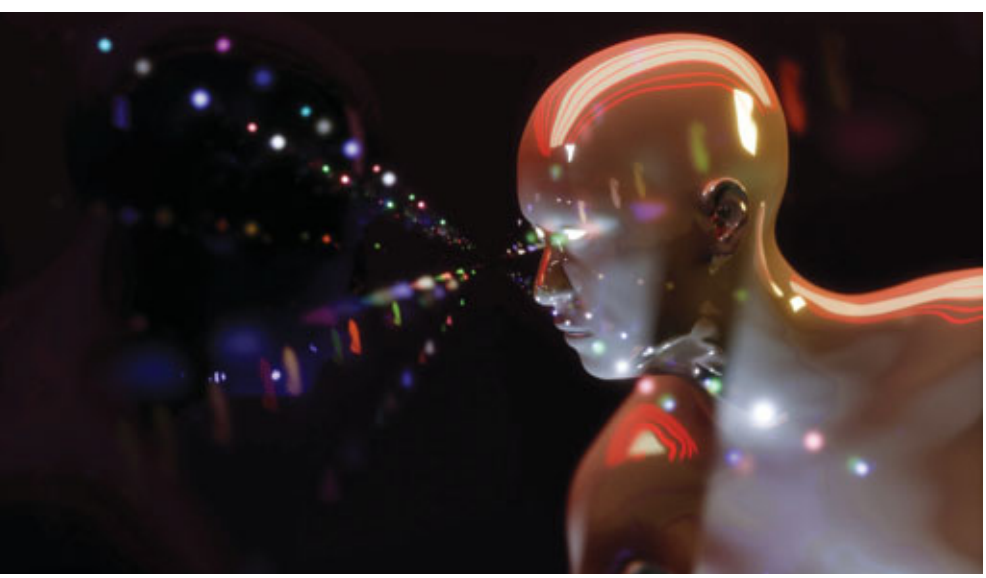
There is also a plethora of anecdotal evidence as how the cookie crumbled for the IT industry since 2008. Between the slew of mergers and acquisitions (M&As) that the sector has seen and H1B complications that are underway in USA, the sector has woken up to the realisation of having specific programmes to keep their key operations workforce even at the ground level intact and adequately skilled. Advent in manufacturing technology and growth in investments in the manufacturing sector has led to escalation of demand for skilled talent, especially operators to work on hi-tech machines and new aged technologies like automation, artificial intelligence and Internet of Things (IoT), that are fast being imbibed in machines across various industries, including manufacturing.

Another reason for retention of skilled workforce is because the industry's demand for skills is scaling-up, with new aged machines slowly taking over older technologies. While there will always be a case made out in favour of inbred talent and upskilling the existing workforce, the key challenge will be retention just like for any other talent group in the industry. Beyond the typical wage escalation and compensation, a faster and fulfilling career path along with programmes to engage not just employees but also families will generate a sense of belongingness and proximity to the organisation, besides promoting culture of family within the organisation.

The key element, however, will be focus and relevance. This talent segment has long faced the ignorance and neglect when it comes to a comprehensive talent retention strategy. Earlier, the only means with this workforce to be heard was to unionise and organise themselves collectively albeit within a regulatory and statutory framework. However, that approach has never differentiated them amongst each other. They continue to remain as a class of workforce and not individual talent. But now from unionisation, the movement is towards urbanisation. The skilled workers who can make a difference to the productivity and efficiency of operation want to be treated like any other talent group. They are well informed and more urban and competitive than what we can possibly imagine. Knowing their relevance and engaging this sect of workforce to create a strategic talent differentiation for a manufacturing organisation is a future that is foreseeable. If we connect the dots together now, a new talent order is likely to emerge asking for more equality and engagement efforts within talent groups especially at the front line. IPF

The fourth Industrial Revolution and India

Industry 4.0 is a blend of state-of-the-art manufacturing, cutting edge artificial intelligence and related cyber-physical systems. **Sunil Gaekwad** observes that in the era of Internet of Things (IoT) and Machine Learning, Industry 4.0 assumes immense relevance in transforming conventional manufacturing to digital manufacturing.



Sunil Gaekwad, Assistant Professor, Department of Mechanical Engineering, NIE since August 2011, has been the coordinator for the NIE CNC Training Centre since June 2012. He completed his BE in Mechanical Engineering at NIE in 2009 and M.Tech in Tool Engineering at the government Tool Room & Training Centre in 2011. He is currently pursuing his PhD at the JSS Science & Technology University in the field of tooling applications of ABS through the use of additive manufacturing. He is a member of the executive committee of the Additive Manufacturing Society of India.

The first time humankind could store and use energy at will was only possible because of its ability to control and manipulate steam. In the 18th century, Thomas Newcomen developed the first piston engine. Newcomen, along with Richard Trevithick, George Stephenson and their ilk ushered in the first Industrial Revolution. The power of mechanisation was so great that, by the early 19th century, the word 'luddite' cropped up. Luddites were people who wilfully destroyed machinery in fear of their livelihoods. It is this fear that is now rife amongst workers and machine operators in factory floors across the country.

The 4th industrial revolution, sometimes called 4IR or Industry 4.0, follows up what steam, electricity, assembly lines and computers have been doing in the past century. Industry 4.0 is a blend of state-of-the-art manufacturing, cutting edge artificial intelligence and related cyber-physical systems. Industry 4.0 is poised to strike a substantial blow to the old school. In the era of Internet of Things (IoT) and Machine Learning, Industry 4.0 assumes immense relevance in transforming conventional manufacturing to digital manufacturing.

'The Fourth Industrial Revolution'is a book by Professor Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, which outlines how this fourth revolution is fundamentally different from the previous three, all of which were driven by drastic advances in technology, through the amalgamation of the physical, digital, mechanical and biological. Additive manufacturing, along with internet of things, big data, advanced robotics and automation systems, is one of the horsemen of the 4th industrial revolution. Subtractive or conventional manufacturing, similar to and as intricate as sculpting, involves a block of metal being cut into a myriad of shapes and sizes.

Additive manufacturing, on the other hand, involves accurately positioning layer upon layer of material to build the final product. Additive manufacturing, which used to be called Rapid Prototyping and 3D printing, has the capability to handle plastics, alloys, food, and even human tissue. This immense flexibility has resulted in its use in all fields of science under the sun.

Scientists and doctors, along with engineers, are now working on ways to make or 'print' everything from spoons and spanners to surgical instruments and human organs. The current boom in additive manufacturing is so prevalent and the cost of the systems are at such a free fall, that, the

Additive Manufacturing Society of India estimates that in the next few years most engineering colleges in the country will have some form of 3D printing systems as part of their curriculum. World Economic Forum indicates that India must become a centre for innovation and reap the social and economic benefit from accelerating progress in increasing the readiness of its people and firms to adopt new technology.

Importance of smart factories

It is this unrelenting march of technological progress that India faces in its immediate future. Forbes estimates that, by 2022, there will be more than 100 million new entrants into the job market. This would mean initiating a new system of employment that creates nearly 9 million jobs a year, which is a rate of increase the likes of which has never been seen in a country that will be the third largest economy in the world in the next decade. The Consortium of Indian Industries (CII), in association with Grant Thornton have published a comprehensive report titled 'India's Readiness for Industry 4.0' which states that one of the most important cogs in Industry 4.0 is the creation of Smart Factories.

A smart factory is a manufacturing facility in which the production and logistics systems primarily organise themselves without human interventions. These factories rely on cyber physical systems linking the physical and virtual worlds by communicating through an innovative IT infrastructure. A system of this sort with perfect harmony between the digital and mechanical systems has been titled digital manufacturing. This new wave in the manufacturing arena which aspire in being more technologically advanced, more efficient, more reliable and more cost effective than the norm right now.

The human factor in these factories, the employees, help firms realise their digital transformation. An employee's skills and their aptitude for new skills are always most affected by disruptive technology. This affects both the employees and the company's effectiveness and efficiency. It requires them to acquire new skills in order to get well equipped with the digital workplace.

Hiccups

Forbes says by 2026, 64 per cent of India's population will be in the 15-60 age group. In other words, in the next 8 years our country will have an immense workforce ready for the millions of jobs that Industry 4.0 will need. However, the greatest hurdle that faces us is the lack of skill and training that this workforce actually has. The fact that our workforce is hesitant to learn and unwilling to adapt to these revolutionary changes makes it doubly difficult to be progressive.

This is the challenge facing industry and academia alike. It is imperative for students and graduates to understand that being trained in obsolete technology will not get them jobs. It falls on the educators in the country to prepare the students to be more adept at learning. The students need a better blend of theoretical and practical teaching. More the students use their hands, the better their chances of learning the technology. Research, innovation and development in technology all have their roots in an innate understanding of the basics which can only be mastered by the students working with the technology rather than just being taught how to use it. All this is only possible if the often contentious connection between academia & industry is strengthened and focussed.

The panacea

The industry, on its part, must ensure that its work force is kept relevant and made future proof. The good news is that both parties understand the issue and are working towards agreeable solutions. Corporate and technology giants in the country are now in continuous touch with academia to develop relevant curriculum and infrastructure. The number of students seeking internships and on-site training is increasing every year. The private sector is working with state and central governments to set up skill development centres throughout the country. The Government has set up numerous schemes and programmes to aid the effort in making India ready for the 4th industrial revolution.

According to Indian Brand Equity Foundation, the Government of India has set an ambitious target of increasing the contribution of manufacturing output to 25 per cent of Gross Domestic Product (GDP) by 2025 from the present 16 per cent. The role of the government as a facilitator is not only to extend support to the manufacturing sector, but also take reformative steps to encourage wider adoption of technology.

Taking cues from countries such as Germany, the central government is working towards proposing a proper regulatory framework, induce competitiveness and form a conducive policy environment to enable Industry 4.0 ecosystem in the country. One such grassroots movement is the Skill India Campaign. It was launched in 2015 and aims to train over 400 million people in various skills by 2022. It involves numerous schemes such as National Skill Development Mission,

Pradhan Mantri Kaushal Vikas Yojana and National Policy for Scheme Development and Entrepreneurship. In the budget of fiscal year 2017-18 the Government of India set aside Rs 17,000 crore, the highest ever allocation to this sector, in order to boost the Skill India Mission.

The Automotive Mission Plan 2016-26 (AMP 2026) is another initiative and emphasizes the government's collective vision on how the automotive sector should grow regarding size, contribution to national development, technological maturity, global competitiveness and institutional structure. It aims to make India among the top three automotive industries in the world and increase exports exponentially to reach 35-40 per cent of overall output. It also intends to increase the contribution of automotive industry to the GDP to over 12 per cent, generating 65 million more jobs as well as increasing the size to $300 billion by 2026.

"It is clear that Industry 4.0 presents tremendous opportunities and highlights the need for a highly trained and flexible workforce, and production capacity, that can answer the needs of tomorrow as well as those of today."

In addition, the Government has launched the Faster Adoption and Manufacturing of Hybrid and Electric (FAME) India scheme in 2015 with a capital outlay of $122.3 million. It is based on NEMMP (National Electric Mobility Plan) 2020 road map and covers all segments i.e two, three wheelers, cars, LCVs, buses, and all forms of hybrid and pure electric vehicles. A recent report by McKinsey & Company, states that, if Indian firms adopt Industry 4.0 across manufacturing, supply chain, logistics and procurement, they can boost profits by 40 per cent at less than 10 per cent of the planned capital expenditure.

It is clear that Industry 4.0 presents tremendous opportunities and highlights the need for a highly trained and flexible workforce and production capacity that can answer the needs of tomorrow as well as those of today. It is time to lead the country into the new world and not just participate in the process.

Over the past century the world has moved on from 'knocker-uppers' to alarm clocks on mobile phones, from 'lamp lighters' to wireless charging. As Eric Hoffer, an American philosopher said, "In times of change, learners inherit the earth; while the learned find themselves beautifully equipped to deal with a world that no longer exists." It is now more important than ever to exhibit humankind's true super power, the ability to adapt to new challenges and in the end overcome them. IPF

TECH BYTE

Manage tough turning operations with new Seco -RR93 and -R3 geometries

For manufacturers struggling to manage metalworking chips and optimize tool-life, Seco has introduced new -RR93 and -R3 geometries as part of its RCMx range of turning inserts. Designed for extreme applications such as turning railway wheels, these additions combine new roughing and medium finishing chipbreakers with industry-leading Duratomic grade technology.

The -RR93 chipbreaker boosts tool life, improves productivity, increases product reliability, enlarges chip-control working area and enhances surface finish. This new design replaces the -RR94 geometry. The -R3 geometry excels in medium finishing applications in steels, difficult stainless steels and super alloys. Its optimally positioned grooves control chips even when depths of cut run as small as 1.5 mm, high feed rates range from 0.6 mm/rev to 1.2 mm/rev and cutting speeds reach 90 m/min. to 160 m/min. (Within these cutting-data ranges, the correct choices depend on materials and machine conditions.) The -R3 geometry replaces the previous -R2 geometry.

Throughout the RCMx range of inserts, the RCMT20-R2 positive screw-clamped range additions significantly

reduce machining vibration, yielding smoother finishes ideal for the surface areas of railway wheel finishing and medium roughing applications of difficult materials. Dedicated insert edge treatments and retained functional toughness arrest comb cracks and increase edge security.

For improved mechanical and thermal properties that enhance performance, the Duratomic CVD aluminum-oxide coating process manipulates coating components at the atomic level. This technology's used-edge detection reduces cutting-edge waste. IPF

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Rise of Robots: New avenues of harmony between man and machine

Amongst all the automation solutions, robots are one of the most distinctive and dynamic examples. **Sameer Gandhi** explains, their interface with human beings has been continuously evolving enabling them to make inroads to varied manufacturing fields such as automotive, packaging, FMCG, food & beverage, infrastructure and form an important constituent of the whole automation portfolio.

Sameer Gandhi is the Managing Director of OMRON Automation, India. Gandhi has an experience of over 25 years spanning across multiple disciplines and industries in the manufacturing and automation realms. As MD, he is in charge of expanding the organisation's footprints in the country by steering the conceptualisation and execution of all key strategies related to sales and business development. Gandhi has been able to contribute significantly towards strengthening the organisation's share in creating intelligence for varied manufacturing sectors such as automotive, food n beverage, pharmaceuticals, FMCG, packaging to name just a few.

The existence of the first ever robot dates back to 400 BC when the famous Greek philosopher and mathematician Archytas made an artificial bird and called it 'The Pigeon'. The Indian roots trace back to the ancient instance of artificial intelligence in the 11th/12th centuries. Indian Lokapannatti tells the story of King Ajatashatru of Magadha, who gathered Buddha's relics and hid them in an underground stupa. These relics were protected by mechanical robots (Bhuta Vahana Yanta) until they were disarmed by King Ashoka. Delving into the history, it is evident that robots have been a part of human existence.

An industrialised society was established upon the foundation of a conventional agricultural society in the 14th century. This industrialised society can be looked upon as a series of five phases: first, there was a shift from a handicraft society to an industrialisation society; then, 1870 saw the advent of a mechanisation society; an automation society developed in the 20th century, and from the end of the 20th century until the dawn of the 21st century was an information society.

While the industrialised society generated material wealth, it has also left behind many negative factors such as increasing energy and resource depletion, growing industrial waste, rising inequalities, among many others. This has created conflicts and disharmonies between men and machines – the kind of debate that we're witnessing today. The optimisation society, on the other hand is typified with not only a quest for increase in efficiency and productivity but also pursuit of true joy, creativity and quality of life based on the harmonious relationship between people and machines – where machines are not only handling the tasks but are working closely with people to adapt to their needs.

So in the optimisation society, knowledge or information is not exchanged as numerical data only in the form of ONs and OFFs or 1s and 0s (as it is happening in the information society). Instead there is an exchange and expression of human knowledge and sensitivity, automating parts of human intellect and sensations – creating the basis of harmony between man and machine.

Automation solution

Amongst all the automation solutions, robots are one of the most distinctive and dynamic examples personifying this automation based on exchange of communication with human beings. Their interface with human beings has been continuously evolving enabling them to make inroads to varied manufacturing fields such as automotive, packaging, FMCG, food &

beverage, infrastructure and form an important constituent of the whole automation portfolio helping India meet the manufacturing needs of tomorrow.

Their widening expanse is a noteworthy indicator of their harmony (and not competition) with the human beings. Looking at the relationship closely, one should strive to realise that robots automate 'activities' and not 'jobs'. Hence, even if some activities, in the realm of a big job, are taken care by a robot, they and the human beings need to work in harmony to deliver the best results. Also, robots deployed for repetitive manual labour activities free up the employees to be more creative and focus their capabilities on higher-level tasks demanding more complex and creative human skills such as pursuing the designing of new and more efficient products and solutions.

The potential for mass unemployment has always been in the air with every transformation. But human society with its unparalleled ingenuity has always continued to accept and take advantage of the existence of machines for producing remarkable goods and services, and create a competitive edge. Many countries in the world are doing exactly that by encouraging the extensive use of robots.

Current industry conversation is focused on how some of these countries are at more ease with robots than the rest of the world. According to United Nations Conference on Trade and Development Report 2017, China, which has the second largest army of industrial robots, has seen its real wages increase by about 1.5 times in the past 10 years. It also mentions that some of the countries where robot density is large as well as countries where the accumulation of robots has been rapid have experienced an increase, or only a very small decline, in the share of manufacturing with respect to total employment.

The world is moving towards making solutions which are world-class and automation will act as a boon to stay ahead of the innovation curve and sustain the economic development. This holds a lot of gravity for the Indian manufacturing industry, as robots will allow the industry to leapfrog in terms of productivity and quality to 'make world-class goods in India'.

Panacea to the roadblocks

However, as we move on this path of increasing automation and faster deployment of robots, we'll have to significantly rewrite our playbook. There will be challenges and we must prepare for the same. If the threat of mass unemployment has to be mitigated, we have to expedite our efforts to counter the challenges of skills displacement. This needs to be answered well by preparing a skill-up for the current generation and the forthcoming generation of workers at a massive scale. Otherwise, this opportunity (to engage in more creative pursuits and to make world class in India) could instead become a major challenge to our society.

A deeper look at the current National Policy for Skill Development and Entrepreneurship 2015 reveals that the government, apart from the overarching high-level initiatives, has been considering some very novel steps too to realise their vision of creating not only skilled job seekers but also to convert them into job creators in the long run with speed, standard (quality) and sustainability.

Some of these include using hard and soft infrastructure which is underutilised. For instance, the policy says, that there are over 10 lakh institutional buildings (schools, colleges, polytechnics, youth hostels, post offices and kiosks, etc.) that are used for less than 40 hours a week. Since one of the key challenges of skilling is the proximity between the supply and the skill catchment, it is essential to take skilling to the remotest parts of the country and scale up quickly which can be made possible by using this existing infrastructure.

Another very distinctive initiative is the utility of the immensely wide railway network (approximately 65,000 km with over 8,000 stations). A large proportion of it has adequate infrastructure facilities, electricity supply and an extensive optical fibre cable (OFC) network. The possibility of leveraging this to deliver short-term skilling courses and promoting awareness is on the cards. Separate skill courses, aligned to the appropriate NSQF levels, are also thought across to be held in existing schools/centres during evening hours to provide alternate career pathway to the students.

All these indicate the long term vision of the government in linking skills development to improved employability, productivity and even entrepreneurship to pave way forward for inclusive growth in the country. However, there is no denying of the fact that skill development is not only the responsibility of one of

the stakeholders. It is the shared responsibility of all – government, corporate sector, community based organisations, academia, influencers and experienced individuals working in the respective fields, etc.

Strategy world around

As a country, we have a formidable challenge ahead. Numbers, as mentioned in the Policy say that only 4.69 per cent of the total workforce in India has undergone formal skill training as compared to 68 per cent in UK, 75 per cent in Germany, 52 per cent in USA, 80 per cent in Japan and 96 per cent in South Korea.

Countries like Germany and UK are inspired with the notion of creating skilled manpower to solve problems because they believe that for turning the screws, robots will be there! They aim to create skilled, thoughtful, self-reliant employees who can improvise when things go wrong with machines or when there is an opportunity to make them better.

There is a notable practice of conducting 'dual training' under the umbrella of apprenticeships in many countries in Europe. It comprises of apprentices splitting their days between classroom instruction at a vocational school and on-the-job time at a company. So the theory they learn in class is strengthened and honed with the practice at work. The trainees are paid for their time and the practice continues for three to four years depending on the sector and most of the times lead to absorption of the trainee by the company. What makes the whole thing work are the standardised curricula in a particular sector across the country. For example, every young machinist training anywhere in Germany learns the same skills in the same order on the same timetable as every other machinist. Another interesting practice (in Germany) is the children choosing a vocational track along with their academics from the age of 10. It is like beginning of lifelong learning to prepare a person for jobs.

Of course, there are huge differences between India and other countries and we cannot copy the same modules here but at least we can borrow relevant ideas and put in earnest efforts to make sure the experiments and the novel initiatives succeed. The companies need talent and for this they should have the sponsoring thought first amongst all stakeholders, which "they want to train their workforce!" Vocational schools and institutes cannot do the job alone.

If there is one thing that we can learn from history, it is that technology is like a genie out of the bottle and can't be reversed. Once created, it gathers a momentum of its own. If we're prepared, we can use this momentum to our advantage and uplift the masses from poverty. But if we're not nimble enough, we could just get steam rolled by it and lose out on a great opportunity. IPF

TECH BYTE

Faro releases SCENE 2019 for advanced 3D reality capture

Faro, one of the leading players in 3D measurement and imaging solutions, has released SCENE 2019, an advanced, integrated software platform that optimises the Faro Focus Laser Scanner product family. SCENE 2019 is specifically designed to evolve the 3D reality capture, analysis and documentation experience across the public safety forensics segment for crash, crime, fire and security planning and Traceable Construction for architecture, engineering and construction markets.

A breakthrough Faro innovation in SCENE 2019 allows the laser scanner CPU (central processing unit) to be leveraged at nearly 100 per cent of capacity and reduces scan processing time by up to 50 per cent. Additionally, this efficiency scales up accordingly as additional CPU cores are added.

Another Faro innovation, Moving Objects Filter, enables automated ghosting or easy removal of undesirable objects moving through a scene eg people or vehicles. This significantly reduces data cleanup time and effort for unwanted items.

Advanced new functionality now enables a section of a point cloud to be exported from SCENE into Faro Zone 3D software, or other 3rd party software packages, where they can be displayed in color and manipulated as a 3D

model. It is now much easier to merge scans for Faro Zone 3D from different locations. For example, in a crash reconstruction, a user can first scan the roadway where a crash occurred, scan the vehicles at the impound lot and then integrate the meshed point clouds in Faro Zone 3D.

"We can create some of the fastest 3D reality capture equipment in the world, but it has limited value if the data captured is cumbersome and slow to process. Faro continues to uniquely innovate in this area in SCENE 2019 with the introduction of artificial intelligence to filter out moving objects, expansion of the software's flexibility and quantifiable, advanced workflow improvements," stated Andreas Gerster, Vice President Construction BIM. IPF

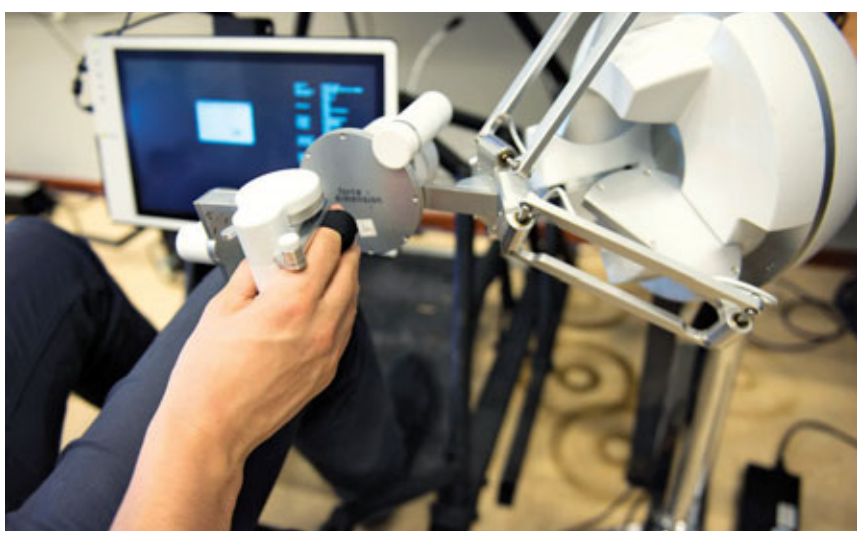
Leveraging new age technologies in the manufacturing industry

Technological disruptions in four areas are disrupting industries and laying the ground for Industry 4.0. According to **Yeshraj Singh**, these are data, computational power and interconnectivity, analytics and intelligence, advanced production methods and human-machine interaction.

In his book, The Fourth Industrial Revolution, Klaus Schwab, the Founder and Executive Chairman of the World Economic Forum remarked, "The changes are so profound that, from the perspective of human history, there has never been a time of greater promise or potential peril."

This singular phrase encapsulates the double-edged nature of digitisation, brought on by Industry 4.0 or the fourth industrial revolution that is currently making its way across the world. While the idea of the fourth industrial revolution was first expressed as far back as the 1940s, Industry 4.0 has been part of contemporary lexicon ever since the German government laid out its strategy for dealing with the inevitable reality of the digitisation of manufacturing – the creation of 'smart factories' by assimilating physical manufacturing with the Internet of Things (IoT).

Several experts argue about the undue focus on technology that is bringing about the change of work and workforce, as we know it today. However, Schwab's crowd-sourced book makes an important observation about the nature of Industry 4.0. "It is the fusion of these technologies and their interaction across the physical, digital and biological domains that make the fourth industrial revolution fundamentally different from previous revolutions", he says.



What has ushered this revolution?

The past two decades have witnessed a drastic reduction in costs of communication hardware like sensors that have unlocked the dormant potential of machines. Technological breakthroughs in the below four areas are disrupting industries and laying the ground for Industry 4.0, namely data, computational power and interconnectivity, analytics and intelligence, advanced production methods and human-machine interaction.

No matter at what stage of digital adoption a country is presently at, digital transformation through Industry 4.0, with its emphasis on 'cyber physical' production, is therefore an unstoppable phenomenon, with deep implication particularly for the manufacturing sector. However, a recent Deloitte survey of 1,600 C-level executives across 19 countries, titled 'The Fourth Industrial Revolution is here – are you ready?' shows that only '14 per cent of respondents are highly confident their organisations are ready to fully harness the changes associated with Industry 4.0.'

The survey also states that only a quarter of CXOs surveyed are highly confident they have the right workforce composition and skill sets needed for the future, despite 84 percent saying they are doing everything they can to

Yeshraj Singh is the General Manager and Strategic Initiative Leader – Digital Transformation at QuEST Global. In this role, Yesh focuses on delivering transformative digital solutions across industrial segment to optimise processes, launch new products, improve quality, maintain compliance and control costs. He has 18 years of proven track record in developing and executing transformational business strategy, digital technology roadmap and operation plan. Yesh is a graduate in engineering from Govind Ballabh Pant Krishi Evam Praudyogik Vishwavidyalaya. He has also completed his masters in design engineering from Indian Institute of Technology, Bombay and pursuing a PhD in Artificial Intelligence from Visvesvaraya Technological University.

create a workforce for Industry 4.0. The true potential of Industry 4.0 should be harnessed for creating newer business models and not merely bringing in changes to the nature of work. However, only 20 percent of CXOs in the Deloitte survey 'consider their organizations highly prepared to handle new business or delivery models, and less than 15 percent believe they are highly prepared for smart and autonomous technologies'.

Why is this transformation so difficult?

Let us now examine the five trends that are currently shaping the industrial segment, which are affecting value creation and thereby value capture in manufacturing:

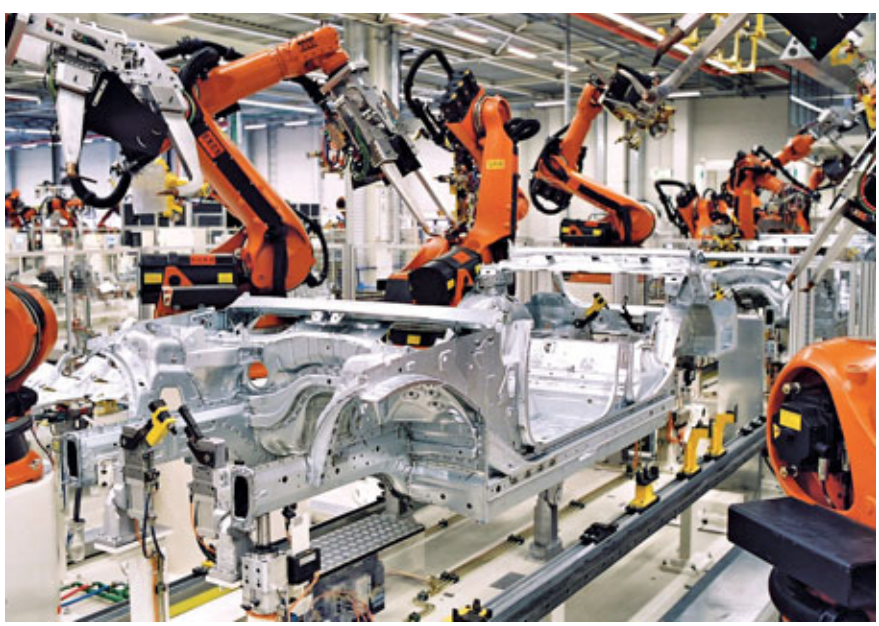
1. **Product as a service** – By transforming from dumb to smart, products are now fast emerging as full-fledged platforms that address multiple needs rather than serve a single purpose. For example, look at the way connected cars are revolutionizing the concept of transportation.
2. **Customisation** – Consumers are no longer passive customers. The increasing personalization of technology has meant that consumers now want products that suit their needs. With technologies like AI, manufacturers are relying on hard data to create products that are intuitive to the needs and wants of individual customers. Take the case of tailor made medical devices that suit a single patient's condition.
3. **Design disruption** – The advent of new technologies like automation, robotics, machine learning and AI is bringing about radical changes in not only product design, but the entire product life cycle itself.
4. **Faster speed to commercialisation** – Interconnected technologies associated with Industry 4.0 have revamped the supply chain by minimizing the role of intermediaries and facilitating direct consumer engagement.
5. **Distributed manufacturing** – Build to order over build to stock is the new manufacturing mantra. The emerging models of manufacturing is making production more optimal and cost effective, eroding barriers to learning, entry and commercialisation.

In light of these trends, manufacturing companies are grappling with two-fold challenges that are hindering the transition to Industry 4.0 in the manufacturing sphere – at the machine level, there are issues in product design and information flow. Design and engineering teams work in silos. With higher number Engineering Change Orders (ECO) that may be implemented to improve cost efficiencies in the manufacturing process, the lack of congruence with design makes turnaround difficult to achieve in an efficient manner. Design to manufacturability, or the practice of designing products in a way to make their production simpler is outdated. When compounded by an archaic supply chain information, the chances of non-conformance are high, reducing the production value. Product Life Cycle Management (PLM) is not in sync with Manufacturing Execution Systems (MES), creating outdated work instructions and documents. There is also limited adaptability to design disruption.

At the workforce level, there is an unpreparedness to tackle the changes that Industry 4.0 brings. Design consumption, inspection and quality reporting are largely paper based systems, limiting the potential to harness data for predictive maintenance. Without the power of data, there is limited scope for understanding production losses and strategising ways to improve Overall Equipment Effectiveness. There other such problems which act as hindrances such as limited integration between ERP, PLM and MES teams, extension point are predominately proprietary software and significant skill gap.

The factory of the future

A 'brilliant factory' as conceptualised by one of the OEMs leading digitisation, is the pinnacle of manufacturing ingenuity, where heretofore discordant elements of the manufacturing process, like design, engineering, production, supply chain and services are stitched together by connected technology into 'one intelligent system'.



The factory of the future is driven by two primary objectives – to enable faster product regeneration and ensure optimization of assets, facility, fleet and network. With IoT cutting across the entire value chain from design to field service, there are several fundamental building blocks

of a smart factory. These include design system integration, transition to a paperless model based enterprise, where a common communication framework is designed to support the entire design process and the development cycle and finally, deployment of analytics to drive efficiencies through small changes. New age technologies enable the digitalisation in three key domains – digital product engineering, connected factory and brilliant manufacturing.

To enable digital product engineering, production level software provide two channels of production design – the model centric design or model based definition and additive design or additive manufacturing. The model centric design delivers benefits across the manufacturing process – planning and simulation, production planning and scheduling, part production, inspection and analysis, and finally, assembly and testing. For creating a connected factory, IoT driven supervisory systems and data collections and controls enable the integration at the shop floor through Manufacturing Operations Management (MOM) and Manufacturing Execution Systems (MES). At the plant level, this involves enhancing Human Machine Interaction and Machine-to-Machine interaction for driving increased productivity and efficiency by automating mundane tasks and allowing predictive maintenance.

To achieve brilliant manufacturing, enterprise level software (ERP and PLM), big data, cloud computing and manufacturing informatics support the seamless integration of enterprise and shop floor execution. This helps meet the entire spectrum of digital manufacturing goals – product definition, resource planning, IoT enabled machines and business operation, decision making and optimisation.

Conclusion

While organisations are struggling to define their digital transformation strategy, digital technologies like IoT, AR/VR, AI, Blockchain and the like is knocking the door with lots of opportunities. With Industry 4.0 and digital technologies expected to add around $14.2 trillion to the global economy by 2030, the industrial world needs to identify systems that can add value and reduce cost through digital capabilities. The key factors that can lead to successful digital transformation can be summed up as better understanding the customer requirements, identifying areas apt for digital transformation, bringing in the required changes to build a high-quotient digital on-demand workforce and optimise legacy or new systems to ensure high ROI. The journey to Industry 4.0 therefore is focused on optimising technology to benefit consumers, workers, the environment and society as a whole. IPF

TECH BYTE

Pepperl+Fuchs launches Next-Gen purge and pressurisation system

Pepperl+Fuchs, a world leader in process automation, has introduced an advanced Bebco EPS purge and pressurisation system, designed for Class I or II/Div. 2 and Zone 2/22 locations. This innovative and compact manual or automatic system delivers all the features needed for reliable hazardous location protection within a small, streamlined solution.

The 7500 series Ex pzc/Type Z purge and pressurisation system can be fully automatic or manual and purges a common enclosure of hazardous gas or dust to maintain positive pressure. It effectively reduces the classification within the protected enclosure to a non-hazardous area. The 7500 carries ATEX and IECEx certifications and is UL listed. It operates within an extremely small footprint of only 5.8" x 3.8" x 1.9".

The new Bebco EPS 7500 Series Ex pzc / Type Z sets new standards for global purge solutions

"The new, compact 7500 series is easy to use, offering absolute reliability and efficiency. When fully automated it provides excellent enclosure protection for electrical equipment like motors, drives, control panels and cabinets, and gas analyzers. Whether you need gas or dust protection in the oil and gas, chemical, maritime, or offshore industry - the Bebco EPS 7500 can be used in process industries around the world for applications that previously required heavier and more expensive explosion-proof protection," said Kristen Barbour, Marketing Manager.

The 7500 Series includes intelligent automatic monitoring and control of enclosure pressure with dilution and continuous flow functionality. The system makes automatic adjustments and provides an alarm output for reliable protection. It is designed in marine-grade chromate aluminum - making it rugged enough to withstand the harsh conditions of many process industries. The 7500 uses universal AC/DC power and is available as both a panel mount and external mount. The large touch screen enables quick and easy setup while also providing status LEDs, a bar graph for pressure, and multiple program selections. IPF

Using technological advancements and managing disruption

The coming together of the cyber physical systems, internet of things, cloud computing and cognitive computing has led to the emergence of the 'smart factory' in this fourth industrial revolution, observes **Jitendra Shah**.

Jitendra Shah is Subject Matter Expert at Deloitte India. He has over 20 years of professional work experience in providing risk and business solutions in India, UK, Middle East and South Africa. The experience spans across a spectrum of verticals including metal & mining, manufacturing, cement sectors in consumer and industrial products. He managed internal audit engagements for large cement companies for their operations in Thailand, Sri Lanka & Bangladesh. He also led the ERM project for one of India's largest cement company.

The invention of the wheel paved way for humans to discover how they could use the principles of physics to make life easier. Subsequently, in the 18th century, water and steam started powering machines leading to the first industrial revolution. Today, technology has again taken a big leap and we are experiencing a phenomenon called Industry 4.0 or the fourth industrial revolution. Many leading 21st-century manufacturers are converging digital and physical worlds in which sophisticated hardware combined with innovative software, sensors and massive amounts of data and analytics is expected to produce smarter products, more efficient processes, and more closely connected customers, suppliers and manufacturers. The coming together of the cyber physical systems, internet of things, cloud computing and cognitive computing has led to the rise of 'smart factory'.

This digitally driven evolution, which lays the foundation for what we at Deloitte call the Digital Manufacturing Enterprise (DME), uses exponential technologies to create an efficient, real-time, automated feedback loop in which data flows from the physical space to digital; capabilities enrich the data and deliver information and insights back to the physical world. The most important and fundamental driver of this new operating ecosystem is data. There is data available for each step of the lifecycle, right from the time the raw material starts from the source to the manufacturing cycle getting completed, and the finished goods reaching the customer. These connected technologies create opportunities to improve efficiency and enhance customer experiences, thereby helping manufacturers attract and retain customers as well as derive significant value. These new insights can also provide visibility and data to solve complex problems and create new possibilities.

There are four major areas in which the industries are using the new-age digital technologies:

1. Shop Floor

Organisations are leveraging digital technologies as a means to enhance their operations and improve efficiencies. The new-age sensors and analytics layers sit on top of the existing legacy machines and use various operational technologies (OT) to capture data. This data is then analysed to provide insights for decision making.

Smart factories – These are fully connected automated setups which leverage various digital technologies such as OT, IOT, analytics, 3D printing, additive manufacturing, artificial intelligence, etc. For example, technologies such as advanced robotics, IoT and 3D printing are being effectively used in metal fabrication, packaging, testing and inspection, assembly of parts, and loading and unloading of autonomously/remotely guided commercial drone systems technologies, whether on land, at sea or in air.

Advanced materials – These are unique combinations of materials, process technologies, partnerships, and business models that together, through systems-level engineering, help create and capture value by addressing large, global unmet wants and needs.

Predictive maintenance – This helps predict the maintenance schedule of machines leveraging analytics to prevent untimely breakdowns and machine failures. Smart glass provides a functionality that assists associates in the workplace with quality control and maintenance-related activities.

2. Logistics

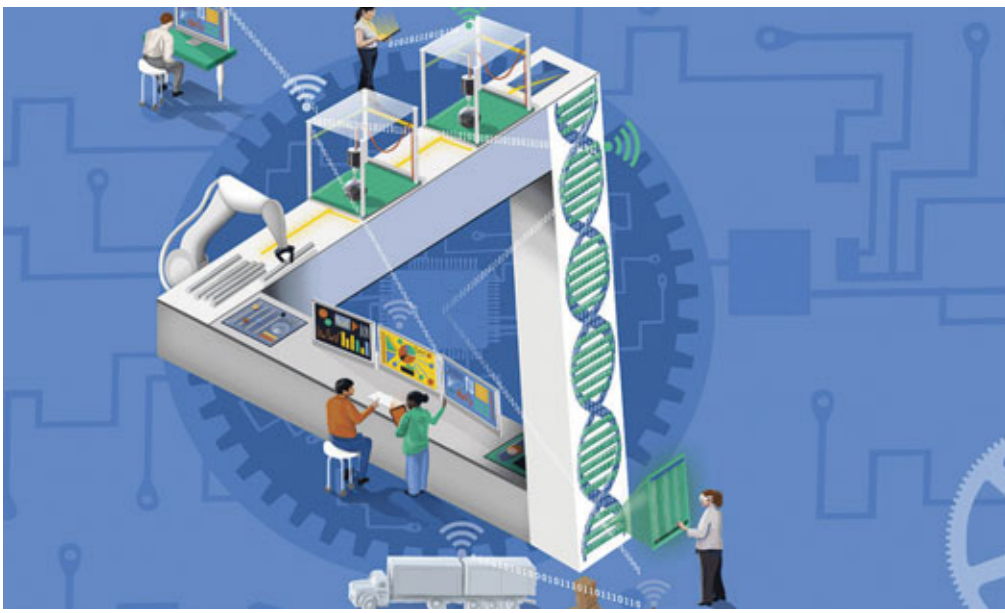
An integral part of any manufacturing organisation is its supply chain network. To ensure optimal levels of inventory and zero impact on production timelines, it is very critical for the organisation to have real-time information of what is happening with the material coming in from the suppliers in line with the order pipeline. It is equally important to ensure availability of finished products for the customer.

3. Customer

Organisations are using digital technologies to directly connect with their customers and obtain direct feedback on their products and services. Technology is also being used to offer a differentiated customer experience.

4. Safe Ecosystem

Many organisations now leverage digital technologies in the form of wearables, smart sensors and video analytics to provide a safe and conducive working environment for their workforce.



"Organisations are leveraging digital technologies to enhance their operations and improve efficiencies. The new-age sensors and analytics layers sit on top of the existing machines and use various operational technologies to capture data."

Connected workforce – The intersection of man and machines using wearables and other devices which can monitor the health of the personnel on a real-time basis and provide alerts in case of detection of an issue.

Secure premises – End to end view of the organisation premises in order to monitor and secure the premises, detect suspicious behaviour and avoid incidents through predictive alerts.

The 'Make in India' initiative by the government has been designed to help manufacturing industries grow and compete in the global market. Another initiative that is spearheaded by the Ministry of Heavy Industries and Public Enterprises is called Samarth Udyog Bharat 4.0 and it is launched with the intent of accelerating the adoption of smart manufacturing solutions through knowledge-sharing, increasing technology awareness and contextual solution development in India. A digital manufacturing enterprise enjoys multifarious opportunities including potential differentiation in the market, competitive advantage and the ability to deliver best-in-class customer experiences.

In this day and age, technology is available for all, and organisations need to decide how they can leverage the new digital technologies most effectively. While speed and agility are crucial, organisations must also evaluate the context and relevance of any technology vis-a-vis their business objectives and/or operating model before embarking upon complex digital transformation journeys as a 'one-size-fit-all' approach may not work. While deploying any of the new technologies, the risks associated with such deployments and their impact on the operating ecosystem must be thoroughly assessed. Organisations should adopt a structured approach to ensure that a risk-mitigation plan is in place to manage potential risks as well as to leverage the opportunities arising from the transformation. IPF

Material handling equipment: Moving forward India's growth story

The online retail market has witnessed a CAGR of 53 per cent for the period 2013-2017. To support the e-commerce deliveries there are multiple warehouses present. **Anil Lingayat** says even though these warehouses are handles by trained staff, the operations are made seamless with the help of material handling equipment.

Anil Lingayat is Executive Vice President and Business Head at Goderej Material Handling. He joined Godrej in 1985 to handle sales and service of industrial products at an upcountry location and grew to handle marketing for machine tools for the western region. The later years saw Lingayat adding diverse experiences in production planning, manufacturing, product supply, sales etc., some of which were national level roles. He went on to head the Product Supply for Godrej Interio. Under his leadership, branch sales reached new highs, some of the biggest projects were executed, and factories were established, upgraded and modernised with robotic integration even.

India remains on the cusp of a new exponential developmental phase and has already been crowned as the fastest growing large economy worldwide. Some sectors such as the online retail market have witnessed a compound annual growth rate (CAGR) of 53 per cent for the period 2013 to 2017. To support the millions of e-commerce deliveries each day, huge warehouses have sprung up nationwide. These gigantic warehouses are managed by trained staff but the seamless operations wouldn't have been possible without the usage of material handling equipment.

The average turnaround time at India's major ports has dropped from 82 hours to 64 hours in 2017-18, and the average output per ship berth day has increased from 14,583 tonne in 2016-17 and to 14,912 tonne in 2017-18. This achievement is commendable since it will provide an impetus to India's trade as goods will now spend lesser time at ports. However, the reduction in turnaround time at India's major ports would not have been possible without the efficiency of the material handling equipment.

In fact, material handling equipment touches upon almost every facet of our lives. From vegetables, fruits, clothes, furniture to construction materials or even shoes, material handling equipment is the silent player carrying them right from their manufacturing and transportation to warehousing and reaching the customer on time. Municipalities too, across India, use such machines to segregate waste and dispatch it to the selected landfill sites or recycling depots.

The Government's 'Make in India' initiative that focuses on spurring domestic manufacturing activity for the global marketplace is also connected to the usage of material handling equipment. It would be difficult for operations to run smoothly on the factory shop-floor without the usage of material handling equipment that helps in bringing in raw materials and transferring finished products within the premises.

It is pertinent to point out that the usage of material handling equipment is expected to grow in line with India's economic development. The exponential growth of sectors such as warehousing, logistics and transportation will provide further impetus to its growth in near future.

As India's economic activities progress, it will become necessary to employ more machines of this nature to enhance efficiency and productivity. However, the government and relevant industry bodies also need to step in and provide guidance in terms of product quality benchmarking, training

manuals and safety aspects. This should fall under the ambit of overall off-road vehicle regulations and thereby bring in some semblance of guidelines for structured overall growth. There could also be regulatory intervention to ensure that machines become eco-friendlier and have a lower carbon footprint.

Regulatory intervention in terms of quality benchmarking is essential since the material handling industry has a large number of small and unorganised players providing dubious quality products at low prices. Such sub-standard products not only have higher lifecycle costs due to frequent machine break-downs but also pose a safety risk to lives and material. In addition, the after sales service need is a key for this product to ensure uptime and safety of equipment during its life cycle. Hence, it is only reasonable to seek a level playing field by qualitatively benchmarking material handling equipment so that customers can make informed purchase decisions.

Material handling equipment are critical to support India's economic growth and therefore the nation cannot remain dependent on imports but needs to nurture the domestic industry. For this, the government needs to intervene through policy initiatives to dissuade the import of such material handling equipment, especially from nations that are infamous for low-cost dumping.

A section of people might also point out the need for pushing widespread utilisation of such vehicles keeping in mind India's vast pool of human resource and favourable demographics. However, it would be pertinent to point out that machines are operated by humans and not vice versa. Hence, a vast talent pool will still be required to manufacture, operate and maintain such material handling equipment.

Additionally, the current manpower deployed for loading and unloading activities could be trained and utilised for higher skilled and productive tasks. The increased usage of such material handling equipment by trained staff will lead to enhanced productivity, thereby ensuring cost saving. This will provide India-made products a price edge in the highly competitive global arena.

In conclusion, it would be pertinent to point out that India's material handling equipment industry will definitely grow in sync with the increased pace of mechanisation and automation across sectors. However, this growth needs to be nurtured in the right direction through proper guidance and regulation so that it doesn't go haphazard and hurt stakeholders over the course of time. IPF

NEWS SNIPPET

Demand for pallets on lease to go up to 4 million: LEAP India

LEAP India, which has deployed Rs 400 crore of equity and debt so far in to pallets and foldable large containers (FLCs), expects current pallets deployed to grow to 4 million in the near future. "LEAP India expects the demand for pallets on lease to go up to 4 million from 2.1 million deployed currently, while that of foldable large containers (FLCs) to touch four lakhs from one lakh now," said the company in a press release.

LEAP India, a leading supply chain management solutions firm, has transformed the way goods are going to be delivered by FMCG, beverages, auto, e-commerce, large logistic players and pharma companies in the country. The company has added 300 large corporates as its clients in the last two years, as it has moved from 150 clients two years back to 450 clients as on today. There is also deep penetration and growth is experienced by the company from the existing clientele.

Commenting on this development, Sunu Mathew, MD, LEAP India, said, "We are delighted to achieve leadership position in a span of five years of our existence. We have enough opportunity in these two products pallets and FLCs and we have recently added Forklifts to our offering and working on innovative products, which we will roll out during the current year. We are geared up to grab this opportunity and we are very well funded company to take care of our expansion plants."

The company has surpassed its largest competitor and has emerged as leader in number of pallets and FLCs deployed in the country. The company has marquee investors like Mayfield and Sixthsense and Piramal.

In India, the method of transferring auto components is still traditional and a truck full of goods requires 14 workers and 3 hours to load and off-load it. The pallets and FLCs reduces packaging cost, increases warehousing and transportation efficiencies, reduces damages, manpower requirements, Carbon Footprint and helps companies to achieve ISO certifications, capital efficiency and saves time to focus on their core activities.

Founded in July 2013, LEAP's business is of returnable packaging and pooling of equipments namely; wooden pallets, plastic containers, wooden boxes and metal wire mesh catering to all sectors which uses these equipment's to store or transfer products from one location to another. IPF

Indian subcontinent a potential market for electrical vehicles

During FY17-18, the Indian automobile industry witnessed overall vehicle production grow by 14.78 per cent to reach 29.07 million vehicles domestically, including passenger vehicles, commercial vehicles, three-wheelers and two-wheelers. **Nishant Arya** informs the Indian auto industry is currently witnessing rapid adoption of EVs, shared mobility, Bharat Stage VI emission and safety norms. India is aptly placed to leapfrog the conventional mobility model and achieve a shared, electric and connected mobility future.

Nishant Arya is the Executive Director of JBM Group. Having undergone extensive industrial trainings in various European and Japanese organisations during 2008-2009, Arya has had multi fold exposure is diverse aspects of business and industry. With his innovative ideas and dynamic leadership traits he has pledged to transform JBM Group to newer heights. Nishant Arya represents the face of today's young and dynamic corporate leaders who are actively contributing towards the Indian growth story.

The global electric vehicle (EV) market is expanding rapidly and EVs are steadily catching the world's imagination as a sure-fire means to tackle the ever-increasing challenge of air pollution. The automobile sector has historically been among the major sectors responsible for economic growth of the developed world. In India, too, it has come to be one of the most significant drivers of growth. During FY17-18, the Indian automobile industry witnessed overall vehicle production grow by 14.78 per cent to reach 29.07 million vehicles domestically, including passenger vehicles, commercial vehicles, three-wheelers and two-wheelers. The passenger vehicle segment recorded an annual growth of 7.89 per cent, riding on a robust growth of 20.97 per cent in the demand of utility vehicles. However, factors like the production of vehicles on such a large scale, stubble burning, garbage disposal and burning, etc., along with the inadequate implementation of the pollution control norms has also further intensified the pollution concerns in India.

About four in 10 Indians are exposed to five times the safe limit of particulate matter, according to a study by NASA, the European Commission and UN. Pollutants have been one of the biggest contributors to the haze which shrouds the country's capital in smog for several months every year. At least 140 million people in India are said to be breathing air 10 times or more over the WHO safe limits. Considering that India has 14 of the world's 20 most polluted cities, it is critical for the country to adopt a strong EV-centric policy.

The Indian auto industry is currently witnessing rapid adoption of EVs, shared mobility and Bharat Stage VI emission and safety norms. India is aptly placed to leapfrog the conventional mobility model and achieve a shared, electric and connected mobility future by capitalising on the existing capabilities and building on foundational government programmes and policies.

The potential

Realising the potential of EVs, the government had unveiled the 'National Electric Mobility Mission Plan (NEMMP) 2020' in 2013 under which it has issued a number of initiatives and programmes towards accelerating the adoption of EVs in India. The plan essentially aims to deploy around 7

million hybrid and all-EVs in the country by 2020. Towards this, in January 2017, the central government said it would bear up to 60 per centof the research and development (R&D) cost of developing an indigenous low-cost electric technology. In fact, as recently announced in their EV Draft Policy 2018, the Delhi government also plans to make Delhi 25 per cent electric vehicle city by 2023.

Pitched as the future of mobility, EVs are fitted with onboard batteries which can be charged by plugging into an electrical network. Take for instance, JBM Solaris's 100 per centelectric bus ECO-LIFE, powered by fast-charging lithium-ion batteries, which can run 150-200 kms on a single charge.Being a zero-emission vehicle, each bus would save around 1,000 tonnes of carbon dioxide emission and 350,000 litres of diesel over 10 years of operation. The product is completely customised to Indian needs, whether it is battery throughput or fast-charging technology. The batteries are chargeable through pantograph as well as plug-in charging system. The induction of buses like ECO-LIFE in the public transportation system could be a positive step in addressing the pollution question in the city. It will in turn, prove to be a quantum jump for how public transportation operates in India. According to a study by The Energy and Resources Institute (TERI), vehicular pollution is responsible for 25 per cent of the PM 2.5 levels, this means ECO-LIFE adoption would be a boon to the citizens across the country, both from the connectivity and heath parameters.

Furthermore, with governments across the world aggressively looking for ways to benefit from the ongoing EV revolution, the market opportunity in the space has grown tremendously over the years. A strong thrust from the local governments and corporates will result in the sector growing at an expected CAGR of 28.3 per cent, between 2017 and 2026. So far, the total number of electric cars has reached three million units globally. Around one million new electric cars were sold in 2017 alone, representing a growth of 54 per cent compared to 2016. The total number of electric buses increased to 370,000 units and electric two-wheelers reached 250 million by 2017 globally.

However, any new development in technology and its incorporation does not come without its challenges. For deployment of EVs on such a large scale, there are challenges in the form of higher capital cost for manufacturing and batteries being expensive. The cost of batteries is huge as currently, batteries are imported. For the total cost of ownership solution for customers, the

lifecycle cost-benefit analysis by experts suggests that the break-even will be reached in five to six years and there onwards, all that will accrue to the customer as saving of operating costs. Even if one takes into account the maintenance cost in the overall cost of operations, electric is 70 per cent cheaper than a fossil fuel-run vehicle.

Ways to resolve

Clearly, a robust eco-system that supports the usage of EVs needs to be put in place along with a strong government policy on multiple components of EV, including infrastructure like setting up of charging stations. International experience has shown that the government has an important role in creating a market for EVs and shaping an industrial policy that encourages automakers to align their production with the targets set by the government. These charging points can be in the form of pantograph and plug-in charging. Especially, in India, the government can be the largest buyer of EVs which will lead to economies of scale for the industry. This will also lead to setting up charging stations across the country. But these challenges will soon become opportunities as the Indian market has already started gaining momentum in this direction. The automobile industry is making huge strides towards meeting the targets.

The rising number of government initiatives such as the recent draft EV policy are also factors that will propel an upward growth of the market. There is no doubt that EVs are the next revolution in the mobility market. At JBM, we strongly believe in a viable and robust business model and feel that it is important to integrate different business segments for sustainability and scalability; hence, we focus on both solar and waste to energy (WTE)/municipal solid waste (MSW) systems. At our solar plants, electrical energy is generated that can be used to charge EVs and various other applications. The concept of 'Well-to-Wheel' has emerged from this very need. As an organisation, we are consciously working towards providing 'Well to Wheel' solutions, wherein, we have developed in-house, end to end capabilities in the e-mobility domain right from generation to consumption of green energy in powering EVs.

A country, without a plan, will not succeed. A national policy takes into account the industry's position, the needs of the population and challenges to come up with a roadmap that includes what the government can and will do to support the industry and public. The economics has to make sense even in the short term, and there has to be adequate charging infrastructure. But, with all big OEMs working towards this cause in tandem with the government, we should see signs of tremendous growth by 2020 itself. IPF

From scalability to customisation: Why Industry 4.0 is helping growth

Industry 4.0 is about doing things differently. That is the only way to win the market today. **Terri Hiskey** believes it's not just about improved performance and efficiency but also about investments into new manufacturing technologies that enhance agility, flexibility, and speed-to-market when designing and launching new products and services.

Terri Hiskey is Vice President of Product Marketing for Manufacturing at Epicor Software. She is responsible for developing and delivering go-to-market activities for Epicor's portfolio, including setting the strategic vision, developing differentiated market positions and compelling content. Hiskey holds a bachelor's degree in International Affairs from George Washington University and a master's degree in Communications from Suffolk University.

Manufacturers must do things differently to win market share in today's environment. To survive and thrive, manufacturers must focus on growth, and one of the ways manufacturers can achieve this is to leverage Industry 4.0 technologies.

Industry 4.0 is all about doing things differently – introducing automation and data exchange in manufacturing technologies. It includes cyber-physical systems, the Internet of Things, and cloud computing. The goal is the 'smart factory' with cyber-physical systems capable of autonomously exchanging information, triggering actions and controlling each other independently. This facilitates fundamental improvements to the industrial processes involved in manufacturing, engineering, material usage, asset performance and management, and supply chain and lifecycle management.

While there is a great deal of discussion about the various technology enablers of Industry 4.0, I feel it's more crucial to reframe the discussion around the business benefits. Industry 4.0 is not a technology initiative. It is the future of manufacturing as we know it. It is not just about improved performance and efficiency; investments into new manufacturing technologies enhance agility, flexibility, and speed-to-market when designing and launching new products and services.

Adopting an Industry 4.0 approach also provides the means to navigate change. Manufacturers are reinventing their business models to focus on value-added services, and/or entering new geographic markets or adjacent market segments. Today's Industry 4.0-outfitted factories are empowered to drive productivity, and this keeps costs down while ensuring quality and consistency across manufacturing processes globally.

"From a business perspective, Industry 4.0 supports four major tenets of operational execution namely, interoperability, information transparency, actionable insights and automation. These support business imperatives."

From a business perspective, Industry 4.0 supports four major tenets of operational execution namely, interoperability, information transparency, actionable insights and automation. These tenets in turn,

support several business imperatives. These include:

Scalability: Automation in the factory gives manufacturers the ability to transition personnel to more value-added activities, and provides the foundation to extend and expand product and service offerings. As they look to expand globally, automation maintains process consistency across locations. This also allows manufacturers to focus on what they do best to find and refine their sweet spot. This moves manufacturers into a more advantageous position from taking on every job to taking on those jobs the organisation can do well, while achieving the best profit margins.

Cloud technology is central to Industry 4.0. It allows manufacturers to scale operations by focusing more on core competencies versus IT operations. Many small to mid-market manufacturers have limited IT staffs and they must be very strategic with IT resources. The cloud is the great IT equaliser – giving small and mid-market enterprises access to leading software capabilities, while freeing them from having to monitor and manage infrastructure. The cloud also gives manufacturers the ability to spin up computing power, providing agility to help organisations "rise to the occasion" when needed.

Security and redundancy: As digitisation in the factory continues, security implications grow and a sophisticated and layered approach to security is critical. This is challenging for manufacturers who may not have the security resources in-house to adequately address this growing challenge. Again, leveraging a cloud-hosted software model can give manufacturers the ability to confidently charge forward in their Industry 4.0 initiatives.

Control and visibility: In an increasingly complex and global manufacturing enterprise, a single digital thread across all operations is needed to support responsiveness, improve collaboration, reduce risk and streamline compliance requirements. Visibility from order entry to inventory to finished product is required to inform customers, partners and other stakeholders as to status at any time.

Customer experience: This visibility is key to provide the omni-channel order and fulfilment options that customers demand today. It is also critical to support co-creation – the ability to collaborate with customers and suppliers. Making business processes transparent and/or open to engagement from customers and suppliers can support improved satisfaction, stronger relationships and loyalty.

Customisation: Mass market manufacturing has given way to personalisation and customisation. This entails shorter production runs and the need to switch out lines more often. Manufacturers need to be able to configure and reconfigure the shop floor quickly and easy to avoid expensive machine and line downtime. Velocity is the new business currency.

Technologies such as augmented reality can help reduce lag time between design and production. 3D printing is pivotal in this area. To date, the use case for rapid prototyping has proved to be a game changer, and other broader use cases are now coming into focus. These include 3D printing for spares or replacement parts – providing the ability to improve responsiveness for customers at a time of need. Additionally, manufacturers also benefit from 3D printing of replacement parts – another game-changing value proposition when you consider all the benefits – reducing the acquisition time and cost of parts, especially for old or obsolete parts, and enabling manufacturers to implement speedy repairs that significantly reduce downtime while extending equipment shelf-life and return on investment.

Innovation: Crucially, manufacturers need to address whether the business systems they have in place are ready to support the journey toward Industry 4.0. Product Lifecycle Management (PLM), Enterprise Resource Planning (ERP), Manufacturing Execution Systems (MES) and Computer Aided Drafting/ Computer Aided Manufacturing (CAD/CAM), all must be integrated to support the move toward increased digitisation and customisation.

So, many organisations are spending many IT cycles on integration (a necessary evil), which takes away from their ability to focus on innovation (competitive advantage). This integration albatross is the subject of a study by Accenture, who reports a typical IT budget may allocate up to 90 per cent to maintaining the current state and just 10 per cent on innovating – a 'technology debt' that is bankrupting competitive advantage.

The boundaries between production and management must disappear, and ERP, MES and other critical systems must form an integrated unit if businesses are to realise the growth opportunities presented by this new age of intelligent manufacturing. Evaluating the existing IT environment is the first step to understanding how ready or unprepared manufacturers are for Industry 4.0. IPF

Making commercial mobility smart

With GPS facilities being widespread, telematics revolution is gradually making its presence felt. **A Sreerama Rao** informs that in the last few years, vehicle telematics has revolutionised the whole scenario of fleet transport with a new set of innovations. It is shaping the future of the trucking industry, taking efficiencies and profitability to new levels.

The biggest developments in technology have probably been in communications, and trucking is no exception. The way trucks and drivers manage their fleet is undergoing a sea change, and it is only going to scale up further in the years to come.

Until recently, infrastructure investment and lack of customer demand sidelined telematics from the broader picture.With mobile technology and smart phones' inbuilt internet and GPS facilities having penetrated the length and breadth of India, telematics revolution is gradually making its presence felt. The ease of collecting vehicle and driver data on the phone is proving to be a game-changer for fleet management. And this has been possible only through telematics technology and the usefulness of this system. In the last few years, vehicle telematics has revolutionised the whole scenario of fleet transport with a new set of innovations. It is shaping the future of the trucking industry, taking efficiencies and hence profitability, to new levels.

The benefits are multifold. It allows constant access to the truck, including monitoring vehicle location and also travel duration. This wireless communication has also made it possible for fleet owners and also drivers to deliver better performance. It takes the estimate and guesswork out of the situation through constant two-way communication. It delivers information to optimise vehicle utilisation. Telematics technology improves maintenance and repairs, alerting owners when the service is due. It also improves communication and navigation and hence, fuel efficiencies. Fuel savings have been found to increase. All this data is valuable to fleets as it helps with reduced downtime.

The road ahead

Telematics is becoming an important aspect of the industry and it could soon become the standard norm/default setting for heavy trucks. It is important not only for the health and performance of the trucks, but also ensuring well-being and efficiencies of the business.

This disruptive wireless communication is a fast growing segment. According to a study, the telematics market is estimated to be worth $39 billion, and is expected to grow at 18 per cent rate by 2022. Major chunk of this pie is going to be dominated by commercial vehicles. And countries like India and China, which are large CV markets, will drive this growth. India, is actually one of the fastest growing telematics markets. The installations in CV is expected to grow to 9.3 per cent in 2023 (from 2.4 per cent in 2016) as per a research conducted by Frost and Sullivan.

One of the biggest benefits is also towards safety on the road. These analytics help fleet owners keep track and get insights on driver behaviour

Sreerama Rao is Senior Vice President-Sales, Marketing, Aftermarket-Volvo trucks, VE Commercial Vehicles Ltd. An engineer by qualification, he has 23 years of entrepreneurial and professional experience and has been associated with the organisation since 2002.

and performance. Any damage or loss of trucks due to accidents and thefts are also alerted to the owner. The growth of telematics, globally, has been in the logistics and supply chain segment in domains such as information, navigation, safety and remote diagnostics. Automotive companies have integrated telematics to monitor vehicle performance and ensure vehicle and passenger security.

The India scenario

In India, the main drivers of the CV telematics market have been increasing fuel prices that have compelled the fleet operators to opt for telematics. Telematics offers fleet management solutions which will play a significant role in reducing fuel costs by cutting down empty runs, thereby reducing overall vehicle downtime. Other factors that influence the demand of vehicle telematics are the safety and security issues. Road safety and proper traffic management is a huge concern in India and telematics offers efficient solutions in this sphere – such as thorough driver risk assessment technology and driver ratings. Analysis of real-life driving behaviour, driving patterns, live alerts and warnings can be produced in case of any violation of safe driving practices, such as over speeding, hurried braking, seat-belt use, indicator use, checking blind spots, engine revving, wrong gear selection and rash acceleration.

Telematics transmits real time data generated by the vehicle to the back-end server which is then converted to meaningful information and reports. This data can be fuel related, distance travelled, error codes, driving pattern etc. Integration of telematics can convert a normal vehicle into an intelligent version with a few cutting-edge features such as fuel management, GPS navigation, vehicle tracking, automatic driving assistance systems support, triggering alerts in case of unauthorised interference, remote service support, SOS transmission of diagnostics information during emergency and other related features. CV manufacturers in India have over a period of time also started to realise that telematics is not just about monitoring, but also about achieving transparency in business processes and efficiency. Remote diagnosis and assistance can help owners in getting improved uptime/turn-around time, while CV manufacturers will benefit by reduced warranty costs through preventive actions, and enhanced customer satisfaction.

Telematics does play a crucial role for commercial fleet operators as it will also make legal process more hassle-free as there would be more chances of the said events being recorded in the form of images or electronics transmissions. It also helps in lowering the vehicle insurance premium. For instance, telematics in vehicles tracks vehicular thefts. Current technologies available are expected to prevent theft of vehicles but very few have solutions that can report theft automatically. This can be done by a vehicle telematics solution. Also, the use of telematics will lower accident probability, leading to reduced insurance premium. Some leading FIs in India (e.g ICICI) have already started evaluating the telematics factor in deciding insurance premium.

A tool for driver engagement

Drivers' community is an important and critical element of CV industry and telematics can help to achieve greater harmony between drivers and owners by increased drivers' engagement, reliable data for performance based incentives, and enabling safety and infotainment needs of driver. The increasing penetration of affordable smart mobile devices is also helping in increasing telematics' reach as the service providers are integrating the offering on mobile platforms for providing information and data on the move.

India still has a long way to go in adoption of vehicle telematics. While India is a fast growing market,what is seen as a hurdle is the high cost involved in telematics. Another challenge occurs from the low range utilisation of telematics technologies and technical unawareness among consumers. However, the application of telematics and data analytics in the logistics space presents a massive opportunity for higher revenues and operational profits for fleet operators. As competition intensifies, advanced telematics will be a key enabler for sustainability in trucking, and a business imperative to maintain a competitive edge. The coming years will witness the rise of the connected ecosystem, which will enable fleet operators and external stakeholders such as governments, insurance companies etc., for efficient operations. IPF

Improve asset efficiency with predictive maintenance

Emerging technologies like the Internet of Things, big data analytics and cloud data storage are enabling more vehicles, industrial equipment and assembly robots to send condition-based data to a centralised server. **Dr. Sean Otto** believes this makes fault detection easier, more practical and more direct.

Dr. Sean Otto is Vice President of IoT and Analytics at Cyient Insights. He currently leads business development for Cyient's Advanced Analytics team, focused on designing AI and Machine Learning models to improve the functionality and reliability of equipment and systems in healthcare. Leveraging the expertise of Cyient, a global equipment engineering and manufacturing service provider, and the growing advantages of 'internet of things' and 'connected devices', Dr. Otto and his analytic teams bridge the needed gap between technology, operations and business. His focus is in completing the 'last mile' of AI and connected experiences in the internet of things.

Equipment manufacturers, engineering, procurement and construction (EPC) companies, and power and process plant owners & operators commonly face the challenge of keeping their fleet, machinery, and other assets working efficiently, while also reducing the cost of maintenance and time-sensitive repairs.

Considering the aggressive time-to-market required for industrial products and services, it is crucial to identify the cause of potential faults or failures before they have an opportunity to occur. Emerging technologies like the Internet of Things, big data analytics, and cloud data storage are enabling more vehicles, industrial equipment and assembly robots to send condition-based data to a centralised server, making fault detection easier, more practical and more direct.

By proactively identifying potential issues, companies can deploy their maintenance services more effectively and improve equipment up-time. The critical features that help to predict faults or failures are often buried in structured data, such as year of production, make, model, warranty details, as well as unstructured data such as maintenance history and repair logs.

By leveraging artificial intelligence models to identify anomalous behaviour, the information derived from the equipment sensors can be turned into meaningful and actionable insights for proactive maintenance of assets, thereby preventing incidents that result in asset downtime or accidents. Commonly known as predictive maintenance, this added intelligence enables organisations to forecast when or if functional equipment will fail so that its maintenance and repair can be scheduled before the failure occurs.

North America tops market share. Due to higher spending by companies looking to optimise operating costs and increase profitability, North America will continue to be the biggest market for predictive maintenance solutions. With an estimated market share of 31.67 per cent, North America is expected to grow its predictive maintenance solutions at a CAGR of 24.5 per cent, maintaining its lead from 2017 through 2022. Key players include Bosch, GE, Hitachi, Honeywell and Rockwell Automation, just to name a few.

Predictive maintenance approach: increasing product availability

The underlying architecture of a preventive maintenance model is fairly uniform irrespective of its end

applications. The analytics usually reside on a host of IT platforms, but these layers are systematically described as:

- Data acquisition and storage (either on the cloud or at the edge)
- Data transformation – conversion of raw data for machine learning models.
- Condition monitoring – alerts based on asset operating limits.
- Asset health evaluation – generating diagnostic records based on trend analysis if asset health has already started declining.
- Prognostics – generating predictions of failure through machine learning models, and estimating remaining life.
- Decision support system – recommendations of best actions.
- Human interface layer – making all information accessible in an easy-to-understand format.

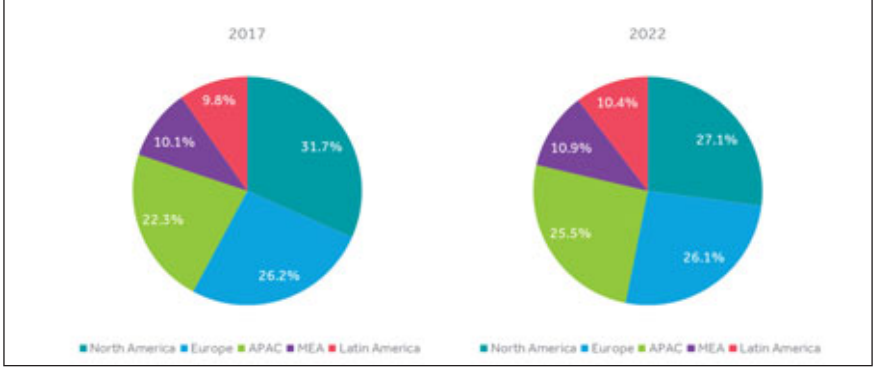
Failure prediction, fault diagnosis, failure-type classification and recommendation of relevant maintenance actions are all a part of predictive maintenance methodology.

As industrial customers become increasingly aware of the growing maintenance costs and downtime caused by the unexpected machinery failures, predictive maintenance solutions are gaining even more traction. With the manufacturing, energy and utilities verticals among the biggest demand drivers for predictive maintenance, it is even more critical for equipment manufacturers, EPCs and owners/operators to adopt a predictive maintenance solution to maintain a competitive advantage.

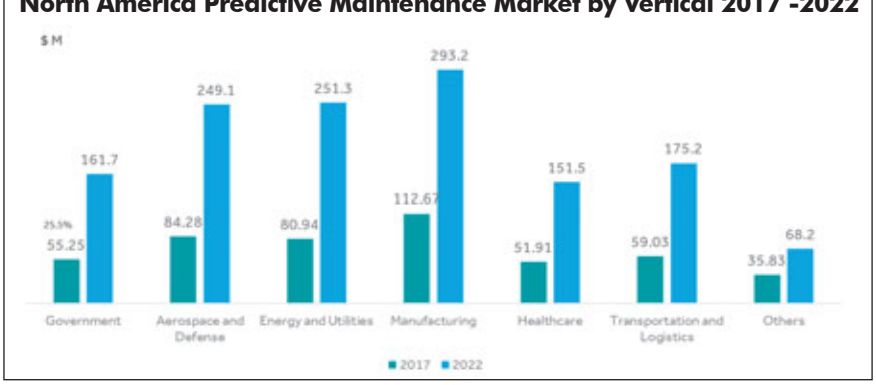
The bigger players have already been using this methodology for more than a decade. Small-and medium-sized companies in the manufacturing sector also can reap its advantages by keeping repair costs low and meeting initial operational costs for new operations.

While it evidently offers more business benefits than corrective and preventative maintenance programmes, predictive maintenance is also a step ahead of preventive maintenance. As maintenance work is scheduled at preset intervals, maintenance technicians are informed of the likelihood of parts and components failing during the next work cycle and can take action to minimise downtime.

Predictive Maintenance Market Share 2017-2022



North America Predictive Maintenance Market by Vertical 2017 -2022



Gain the benefits of predictive maintenance

In addition to the advantages of controlling repair costs, avoiding warranty costs for failure recovery, reducing unplanned downtime and eliminating the causes of failure, predictive maintenance employs non-intrusive testing techniques to evaluate and compute asset performance trends. Additional methods used can include thermodynamics, acoustics, vibration analysis and infrared analysis, among others.

The continuous developments in big data, machine-to-machine communication and cloud technology have created new possibilities for the investigation of information derived from industrial assets. Condition monitoring in real-time is viable thanks to inputs from sensors, actuators and other control parameters. What stakeholders need is a bankable analytics and engineering service partner who can help them leverage data science not only to predict embryonic asset failures, but also to eliminate them and take action in a timely manner. IPF

INTERVIEW

Virendra Kumar

"RDSO wants to encourage MSMEs for supplying products to railways"

Indian Railways has been undertaking major modernisation programs like electrification, high-speed trains, etc in the last few years. Research Designs & Standards Organisation (RDSO), which functions as the technical advisor to railway board zonal railways and production units, is playing a major role in this transformation. RDSO is the backbone for technology on Indian Railways, says **Virendra Kumar**, RDSO's Director General. RDSO, an ISO 9000:2008 research and development organisation under the Ministry of Railways, is the sole R&D organisation of Indian Railways. In this freewheeling interview with IPF's Rakesh Rao, Virendra Kumar highlights changes taking place in Indian Railways and role played by his organisation in making railway operation safer, more comfortable and economical.

How is RDSO rendering its services to railways?

RDSO is the backbone for technology on Indian Railways. It is fully involved in development, adoption and absorption of new technologies; development of new and improved designs of equipment and systems and setting standards for adoption on Indian Railways. RDSO, an ISO 9000:2008 organisation, is also involved in technical reviews, statutory clearances and testing, apart from giving technical guidance to Zonal Railways. Vendor development with approval and inspection of major items are important mandates of RDSO.

Currently, what are the focus areas of RDSO?

Development of new technologies, adoption of latest technologies and up-gradation of present technology are focus areas of RDSO to meet the challenges of enhanced safety and throughput. RDSO has started several initiatives in this area.

Reaching out to industries for better quality sources for new and existing railway products is also a key endeavor in the recent past and this momentum will be continued in future. RDSO, in association with local industrial bodies, has held vendor meets at 37 different cities across India to educate the industry

about RDSO, the products it controls and process for registration with RDSO for supply of items.

How do you perceive Indian industry to rise up to your expectations?

We expect and hope that more manufacturers come forward to work with us by joining the critical supply chain of the lifeline to the nation, be an active partner in nation building and be a proud partner of Indian Railways.

Safety and comfort are the two most critical aspects for railways. What steps has RDSO taken in this direction?

RDSO has developed and is working on several technologies for safer train operation. To name a few, train collision avoidance system (TCAS), fog vision system, advanced passenger coaches like Tejas, heavier and wider sleeper for track, air-conditioned EMUs for Mumbai Metro, Bio-toilet for coaches, etc are noteworthy.

To facilitate advanced research in railway technology, RDSO has centers of Railway Research at five IITs, and has MoU with Korean Rail Research Institute.

How important is the role of RDSO given the fact that Indian Railways has been undertaking major modernisation programs?

RDSO is the statutory body for giving safety clearance to new rolling stock, including metro railways. For all new designs, safety and design clearance is given by RDSO. Thus RDSO's role is very important.

Are present railway tracks capable to handle high-speed trains (and later Bullet train)? What kind of up-gradation will be needed in railway infrastructure for handling such high-speed trains?

The Indian Railway routes can broadly be classified in two speed categories:

- Suitable and up to 110 kmph

(loosely called "Mainline Standard track")
- Suitable up to 130 kmph (loosely called "Rajdhani Standard Track"). With inputs, these can be upgraded to 160 kmph. RDSO has already issued roadmap for such up-gradation and it is planned to increase speed potential to 160 kmph on the "Golden Quadrilaterals" and "Diagonals" connecting New Delhi, Mumbai, Chennai and Kolkata.

Development of new technologies, adoption of latest technologies and up-gradation of present technology are focus areas of RDSO to meet the challenges of enhanced safety and throughput. RDSO has started several initiatives in this area.

Beyond 160 kmph, very major changes are required, which include realignment of track, and that is impractical. So for speeds of 200 kmph and above, new track alignments shall be required.

Indian Railways has to focus on 100% electrification. Will this move require new standards for equipment? How equipped in the domestic industry to tap the electrification opportunity?
The equipment and materials required for electrification are standardised and we have supplier for them. However, supply chain logistics is becoming an issue due to the increasing pace of electrification. The industry has to rise to meet the increasing demand for electrification.

Is RDSO open to collaboration with private sector for R&D? If yes, can you please share some of the examples of collaborations?
Many developments take place in association with industry. RDSO develops its requirements, frames specification and then invites industry to develop and supply. RDSO remains closely associated during development and testing.

Is "Make in India" initiative giving a boost to local production of railway equipment?
Yes, very much so. It has always been an endeavor to develop indigenous sources for equipment which were earlier imported.

SMEs play a big role in manufacturing sector. Is RDSO taking steps to encourage or educate SMEs about standards & research in railways, thus helping them to become suppliers to railways?
We at RDSO do want to encourage MSME sector to come forward for supply to Railways. We held first vendor meet with MSME vendors on August 29, 2017 at RDSO, in close association with Small Industries Development Bank of India (SIDBI), SMERA (vendor rating agency), Federation of Indian Micro & Small and Medium Enterprises (FISME) and Indian Industries Association (IIA). The meet was attended by over 150 vendors from various states.

Beyond 160 kmph, very major changes are required, which include realignment of track, and that is impractical. So for speeds of 200 kmph and above, new track alignments shall be required.

Another special vendor meet, especially for SC/ST category in association with MSME, NSIC, KVIC and DIC organised at RDSO on October 25, 2017 in which more than 60 vendors participated. We have started monthly meetings with CII representing industry.

What institutional arrangements is RDSO making to make it more attractive for industry to associate with Railways?
Over the last one year or so, a lot of effort has been put in by RDSO in this regard.

The vendor approval procedure has now been redefined and made uniform for all the Directorates. Complete process is a time based process now, both for RDSO and manufacturers. The process is totally online and transparent including document submission and prospective vendor need not even visit RDSO. All documents have been made available online which include specification, drawing and STRs, the procedure of e-payment has been simplified and made effective.

The equipment and materials required for electrification are standardised and we have supplier for them. However, supply chain logistics is becoming an issue due to the increasing pace of electrification.

Mobile Apps have been developed for vendor registration as well as for product inspection.
For the items which have less than three vendors, and other items/technologies, expression of interest (EoI) is uploaded on RDSO's website http://www.rdso.indianrailways.gov.in under link Vendor Interface -> Expression of Interest (EOI). This information is also regularly published in leading newspapers.

A vendor support cell to help and facilitate existing & potential vendors has also been set up.

What are your future plans for RDSO?
We want to make RDSO a more dynamic and flexible organisation with modern facilities and laboratories to implement latest technology of rail sector and make railway operation safer, more comfortable and economical. IPF

INTERVIEW

Bijay Nayak

“India is taking a lead role in the field of digital technology”

India has set an ambitious target to enhance the manufacturing output contribution to 25 per cent of GDP by 2025. To achieve this goal, the Government launched Make in India initiative in 2015 by turning India into a manufacturing, design, and innovation hub. However, the country is still far away from its target as there are several hurdles on the way. There are several challenges before the manufacturing sector such as increasing regulation and compliance measures, skill gap, environmental concerns, etc, says **Bijay Nayak**, Managing Director of Uttam Technologies India Pvt Ltd and Parson Adhesives India Pvt Ltd - a JV between Uttam Technologies and the US-based Parson Adhesives Inc, a leading manufacturer of wide range of industrial adhesives such as anaerobic adhesives, cyanoacrylate adhesives, epoxy & polyurethane adhesives, methacrylate adhesives, uv curable adhesives, silicone sealants etc. In this interview with Rakesh Rao, Bijay Nayak explains in detail various factors that are putting roadblocks on India’s growth path and also share some of the effective strategies to be adopted by Indian manufacturers to maintain their competitive-edge.

What kind of products and services are offered by your company?

Parson Adhesives India Private Limited is a subsidiary of Parson Adhesives Inc, USA. Parson Adhesives is one of the leading manufacturers of wide range of high performance engineering and structural adhesives and sealants. Parson range of adhesives are currently used by many of large companies in USA, Germany, France, Italy, UK, Turkey, Brazil, Mexico, China, Taiwan and India; having presence in 54 countries.

Parson Adhesives is one among few companies who has different types of high performance engineering and structural adhesive technologies.

Those are anaerobic, cyanoacrylate, acrylic & methacrylate, epoxy, polyurethane, UV curable adhesives, silicone and special polymer based sealants. Our research scientists work tirelessly for evolving newer products to meet application challenges. Looking beyond the future, our technical team works continuously to produce innovative adhesive products to meet wide range of applications. Efforts

still continue to develop new polymers to exceed the ever-increasing requirements of market developments in exotic new materials.

Parson Adhesives is growing globally and in India increasing presence in various industrial segments and application every year. Parson’s R&D team is involved in developing different adhesives and sealants solutions for industries after identifying their concern areas.

What is the present status of manufacturing sector in India?

The growth of the manufacturing sector is not that encouraging. Though the annual growth is around 14 per cent, the quarterly growth remains inconsistent as the industrial production index remains generally low. Due to low manufacturing growth, the country faces high rate of unemployment.

What are key challenges before manufacturers in India?

There are several challenges before the manufacturing sector. The manufacturing sector is facing increasing regulation and compliance measures. Besides, product development, innovation, skill gap, environmental concerns and issues etc. are some of the major challenges that need to be addressed to ensure a robust manufacturing sector.

What, according to you, should be the "Winner strategies" that Indian manufacturers need to adopt for business success?

Major manufacturing units in the country especially in handloom and textiles, power, leather, food processing etc. face acute sickness and unemployment. As these units are the mainstay of the

manufacturing sector, the revival of the same need urgent attention and appropriate strategy for restoring them to sound health. Besides, competition and cost are the key issues to be noted.

Could you please highlight some of the strategies that you have adopted for your company to make it successful?
Parson Adhesives always work very closely with every client demonstrating all advantages of products. And, major advantages passed-on to customers are value benefits, cost benefits, and price benefits.

Advantages offered are increase product performance, increase design flexibility, increase product quality, enhance product aesthetics, and improve process productivity and reduce manufacturing costs.

What are the strengths of India which can be leveraged to attract global manufacturers?
India is taking a lead role in the field of digital technology. We have the distinction of being the largest IT personnel in the world. The present government has been playing a key role in giving a thrust to new technologies, indigenous and foreign technology. This strategy would go a long way in giving a boost to IT and digital technology sectors.

SMEs have been playing a key role in the development of the country. Apart from employment and contribution to export sector SMEs meet the local needs in myriad ways.

What policy changes are needed to make India a manufacturing hub?
India's share in the world trade is not up to mark when compared with emerging economies like China. Due to lower growth and competitive disadvantages India's manufacturing sector faces major challenges. Of late, in the ease of doing business India has notched huge leap forward. This may come to our aid so far as FDI is concerned. Several redundant laws have been scraped and recast in tune with the present situation. These may come to the competitiveness of the Indian industry vis-à-vis global chains.

In an inter-dependent world nothing is certain. Waves and ebb are often the truth. The country should be resilient enough to absorb the external shock and push ahead as India did in 2008.

How important is to invest in R&D to make India a hub for manufacturing?
There is no second opinion on R&D as key to any development. Apart from product developments, R&D plays its part in storage and warehousing. As an agrarian economy, R&D should take care of these key areas. The government and private funding can ensure fast track developments in this area.

What is the relevance of SMEs in making India a global manufacturing hub?
SMEs have been playing a key role in the development of the country. Apart from employment and contribution to export sector SMEs meet the local needs in myriad ways. However, this sector faces several problems. Right from credit to marketing they face constant problems. Also they need support from the government for purchases of their products. Regular follow-up of the problems on credit front, R&D, marketing, etc can ensure better health to SMEs.

External environment for trade is still challenging. What steps need to be taken by India (by the government as well as industries) to boost exports?
In an inter-dependent world nothing is certain. Waves and ebb are often the truth. The country should be resilient enough to absorb the external shock and push ahead as India did in 2008. Pragmatic policies and vision as also political leadership with stability help in this direction. External shock should not weaken us rather it should embolden the nation to search for new ways and methods to address the issues.

Why it is important to opt for "eco-friendly" or "sustainable processes" for long-term economic benefit?
Development with ecological balance is very essential as ecological turmoil often details the economic and social fabric of the country. India plays a key role in the field of renewable energy. The global solar summit in New Delhi was one of the greatest initiatives by our PM. Climate changes and their challenges are to be tackled country-wide as also globally unitedly.

Which is better strategy - "Make in India" (ie, produce in India for global markets) or "Made for India" (ie, make products for India) or mix to both?
The focus of Make in India programme is on 25 sectors. These include: automobiles, aviation, chemicals, IT & BPM, pharmaceuticals, construction, defence manufacturing, electrical machinery, food processing, textiles and garments, ports, leather, media and entertainment, wellness, mining, tourism and hospitality, railways etc. Views are quite divided as to which one is preferable for India – Make in India or Made for India. Both the concepts have their relevance for a country of India's dimension and diversity. We need huge and myriad production base for the country's burgeoning demand as also for export. China has been growing at a faster pace, thanks to export led growth. Hence both the approaches are complementary, not competitive. IPF

INTERVIEW

Suchit Shah

"GST has helped material handling equipment industry"

Material handling sector is considered to be the backbone of all core industries. The sector contributes in a big way to improve the overall efficiency by ensuring seamless movement of goods at the production site and consequently and, thus, plays a vital role in increasing the overall productivity of any company. The material handling equipment (MHE) deals with continuous movement of equipment, conveyors, transfer cars, etc and Insu Tech specialises in the manufacturing of the power transmission system, that are considered to be the 'life-line' of MHE. In this interview, **Suchit Shah**, Partner & Head – Business Development, Insu Tech Corporation, tracks the development in MHE sector and contribution of Insu Tech to the growth of MHE sector.

What types of products/ services do you offer in material handling space?

We manufacture array of products for power transmission system in material handling sector such as drag chain system (polymide/metallic), DSL system (shrouded/angle/rail/copper head rail), Festoon system, rail fixtures, spring buffers to name a few.

How do customers benefit from your products/services?

Insu Tech Corporation is a 'one stop solution' for all power transmission requirement in material handling sector. Our wide range of products are an apt solution for most of any applications in most arduous operating conditions, be it steel, power, cement, port, auto or any other industry. Insu Tech excels in providing complete turnkey solutions.

Why is Material Handling Equipment (MHE) industry important for the growth of the country?

Material handling sector forms the backbone of all core industries like steel, power, cement or auto. Material handling sector contributes in a big way to improve overall efficiency by ensuring seamless movement of goods at the production site and consequently, plays a vital role in increasing the overall productivity of any company.

How has introduction of GST helped the MHE industry?

GST implementation has not only helped material handling equipment industry, but has got the entire nation on one platform, where there can been healthy competition across sectors irrespective of geographical location within India. Besides with lesser compliances the entire process has become more streamlined especially for SME players with limited manpower. It has, thus, resulted in its truest form 'One Nation One Tax'.

How is automation and robotics aiding the growth of material handling equipment industry?

With continuous technology development happening all around us, and the major focus being the efficiency for the Industries, automation & robotics is the way to it. With automation & robotics, the overall downtime will be practically zero and dependency on manual labour will reduce, thus helping boost the organisational efficiency.

What are the challenges faced by the manufacturers of MHE in India?

The liberal economy has its own pros and cons. The major con being competing with the Chinese manufactures. With many Chinese manufacturers making in-roads in the Indian market, maintaining the price point with quality products is one of the major challenges faced by the MHE manufacturers in India.

The other challenge faced by the sector is limited innovation and new technology development, as a result of resistance by the end clients to accept new form of technology.

How do you intend to grow your business further?

With a view to expand its existing portfolio of products mix and to be able to cater to the demands of its clients spread globally, the company plans to setup its new state of art manufacturing facility in Gujarat in next three years. This expansion plan comes in sync with the Indian Government's growth statistics of major core sectors at 8 per cent CAGR in next 5 years. IPF

Static dissipative silicone tube gaining in demand

As silicones elastomers are insulator so that accumulated charges are stagnant followed by catastrophic static discharge leads to a fatal accident. Hence, industries are trying to develop a technologically advanced static dissipative silicone tubes, says **Pritam Adhikary**.

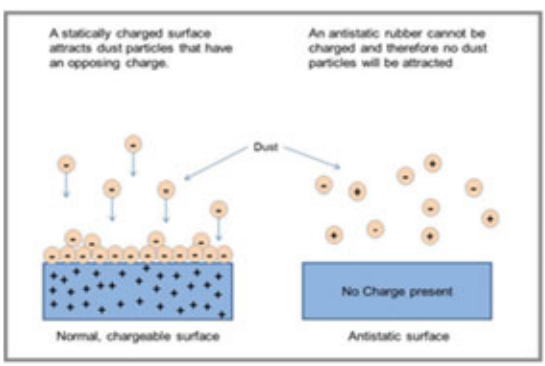
Nowadays silicone elastomer based tubes are widely used mostly in the area of medical, pharmaceutical, biological, biotechnical, artificial cell culture industries due to its cent percent biocompatibility, high and low temperature resistance, solvent resistance properties and low leachability.

The problem with conventional silicone tube is the development of static electricity due to friction. A static electric charge is developed whenever two adjacent surfaces are in frictional contact. Here charges are developed when fluids are passing through silicone tubes or due to electrical induction when tubes are close vicinity of some electrical instruments in medical, pharmaceutical, hospital sectors.

As silicones elastomers are insulator so that accumulated charges are stagnant followed by catastrophic static discharge leads to a fatal accident. This fatal accident comes with outputs like static shock or fire hazards. So removal of static charges are very important in those critical areas.

So industries are trying to develop a technologically advanced static dissipative silicone tubes for medical and pharmaceutical application. This tubes are biocompatible as well as conduct developed static charges more controlled way to reduce the provability of any kind of catastrophic accidents. Tubes are available in any size.

So static dissipative silicone tubes have similar physical properties as compare to conventional silicone tubes but has lower surface resistivity than conventional tube. Thus, it will not allow to accumulate static charge development and completely nullify static discharge accidents.



Surface charges behavior upon normal surface and anti-static surface

Owing to its low charge accumulation over its surfaces, static-dissipative tube is used in medical sector, pharmaceutical arenas, and bio-medical application for corrosive and aggressive materials transportation. IPF

Following is the comparative study of conventional silicone tubes and static dissipative silicone tubes:

Tube	Tensile strength	% Elongation	Hardness Shore A°	Tear strength	Surface resistivity
Conventional silicone tube	68-85 kg/ cm2	150-200	60-70	25 kg/cm	>1012 ohms/ square
Static dissipative silicone tube	68-85 kg/ cm2	150-200	60-70	25 kg/cm	106-109 ohms/square

About the author:
Pritam Adhikary is the Executive (R&D) at Ami Polymer Pvt Ltd. He can be reached on Mob: +91 82389 22236, email: research@amipolymer.com

TECH BYTE

Antistatic transparent hose for high pressure application

The problem with conventional silicone hoses is the development of static electric charge, which can lead to fatal accident. So the removal of static charges is very important in those critical areas.

Antistatic transparent tube is most challenging area of development. Industries are developed antistatic transparent hoses. This hose are transparent as well as it can dissipate static charges if charges are developed due to friction or induction. This transparent antistatic hose use both in high pressure application and as well as to reduce static discharge failure. Also transparency gives aesthetics look. IPF

Hygiene properties of steel belts are second to none

Steel belts can help to overcome the variety of cleanliness problems faced by the users in the food industry. The versatility of steel belts makes them an increasingly important tool to avoid hygiene problems in food conveying lines and other areas.

The dangers in designing any conveyor system used in the food, beverage, packaging, and pharmaceutical industries are the formation of microorganisms within the machinery and spreading of these micro organisms by the machinery. Pre-requisites, therefore, are materials free from cracks - which may trap dirt, manufactured from non-corrosive materials and are easy to clean.

Traditional conveyors – having chains, plastic, PVC & PU belts are however still used despite the potential risk to contaminants. In Germany, a food manufacturer had to recall its products from the market place because they had become contaminated by oil used to lubricate the chain belt in their machine. Germs and harmful bacteria are attracted to dust generated by the lubricants, which can fall into food or other products.

To overcome this problem, the use of steel belts in such applications is growing. Their benefits and features can overcome the variety of cleanliness problems faced by users of belts in the food industry. Steel belts are easy to clean and can be made form a variety of stainless steel grades such as 304 FH and 316 FH, which possesses very high anti-corrosion properties. Wash-down with corrosive fluids is common place

in such applications as the transport of dairy products and in such conveying lines is critical to prevent harmful bacterial infection.

Steel belts do not need to be lubricated in order to transmit power and are totally free from particulates unlike other belting. High temperature resistance and good heat transfer properties mean that they can even be used to cook on, saving processing time during food manufacture. There are many systems on the market claiming to be totally stainless but this is rarely the case as the system frame may be but the belt is often plastic or PU resulting in the problems described above.

Steel belts are not just available as flat conveyors, they can be customised in many ways and offer novel and exciting solutions to a many of complicated conveying problems. Belts can be perforated with complex perforation patterns for timing, vacuum or dosing applications. Mostly such belts are custom made to order. The belts can be made with custom belt attachments using attachments to time the belt, as location devices or product carriers. Attachments can be riveted, screwed, welded or glued to steel belts to match a customer's exact requirement.

Belts can be coated with a variety of substances to alter their properties such as with FDA approved Teflon for non-stick or silicone for added friction.

In conclusion, the versatility of steel belts makes them an increasingly important tool to avoid hygiene problems in food conveying lines and other areas. Stainless steel systems which incorporate stainless steel frame, support, pulleys as well as a steel belt are the most obvious way achieve the highest degree of cleanliness. IPF

Article Courtesy: The Prolific

For details, contact The Prolific, Kolkata, on Tel: 033 2231 1075, or Email: prolific@vsnl.com

A well-rounded affair: Low-deformation workpiece clamping

As is so often the case for low-deformation workpiece clamping: there is no one-size-fits-all solution. Only when all the aspects have been clarified can the optimal clamping solution be defined.

Those wanting to turn, mill or grind rings, flanges, housings or other thin-walled parts will quickly reach the limits of what is possible using conventional chucks or face plates: the parts are deformed in the clamping process, shaping and geometric tolerances are difficult to adhere to and the interference contours of the clamping devices restrict the accessibility. There are a great deal of alternatives here – from the compensating multi-jaw chucks, the magnetic clamping technology right up to the pendulum jaws. To ensure things run smoothly, it is worth knowing the strengths of the individual problem solvers, because this saves time, money and often nerves.

As is so often the case for low-deformation workpiece clamping: there is no one-size-fits-all solution. The requirements of the workpieces, type and frequency of the machining as well as the integration into the process change vary so severely that an individual observation at the user level is always worthwhile. The following questions are primarily important here: what parts are to be machined in what batch sizes? How flexible must the machine be able to be used? What shape and position tolerances must be adhered to? How will the parts spectrum develop in the future? Only when these and other aspects have been clarified can the optimal clamping solution be defined.

On these square pole plates, various parts can be machined in alternation. In addition, they can be removed from the machine table in just a few steps.

Pendulum jaws increase the number of contact points

For pendulum jaws, users take advantage of the number of clamping points in order to minimize deformations on the workpiece. This way, with identical clamping force and a doubling of the clamping points, the achievable roundness accuracy increases in practice by a factor of 10. Usually, pendulum jaws are made of a movably mounted pendulum body with two clamping inserts, which are mounted on a supporting jaw with the aid of a bearing bolt. For demanding applications, there may be four or six clamping inserts, either soft or case-hardened. As pendulum jaws are mounted like one-piece top jaws, a conventional 3-jaw chuck can be converted into a 6-point clamping in no time at all.

As the jaws are adjusted to the workpiece, they can compensate for form tolerances within a certain range, for instance with cast bodies. It is beneficial if such pendulum jaws can be fixed for finish machining or for clamping pre-turned surfaces. Furthermore, the jaws should be as light as possible so as to achieve faster speeds. Calculation programs can be used for calculating what compensation is required for achieving specified concentricity tolerances. Primarily for small tolerances, experience pays off, because with matured special solutions, enormous effects can be attained. But there are also restrictions: pendulum jaws are comparably expensive, they wear out easily, are sometimes quite heavy and restricted when it comes to flexibility.

Compensation jaw with centrifugal force and vibration compensation

Hydraulic compensation jaws set a new benchmark in hydraulic compensation jaws for low-deformation workpiece clamping. They combine a balancing workpiece clamping with centrifugal force compensation, vibration-damping characteristics and micron-precise concentricity. The integrated oil chamber system is a central feature, above which two or more oscillating clamping elements for clamping rough or finished parts are mounted. As they individually adapt to the

workpiece, form tolerances of cast bodies, for example, are reliably compensated. Compared to conventional 3-point clamping, the number of clamping points is increased, which also lowers the deformation of the workpiece and the obtainable roundness is significantly increased. At high speeds, the hydraulic clamping system automatically ensures centrifugal force compensation so that the clamping force is always reliably maintained.

In order to minimise workpiece deformation, the clamping force can be considerably reduced in comparison with previous solutions without restrictions on process reliability. For maximum precision on the component, the concentricity can also be adjusted micron-precisely on the chuck jaws. Additionally, the vibration-damping characteristics of the oil chamber system result in a better surface quality of the workpiece and the tool life. Hydraulic compensation jaws are suitable for low-deformation OD clamping of rough and finished parts and are available for all lathe chuck sizes and serration types.

Plastic jaws are the most cost-effective alternative

Special jaws made of glass fiber reinforced plastic are an often underestimated problem solver. Their high coefficient of friction of 0.3 to 0.4 as well as a large angle of wrap ensure that high machining forces can be transmitted even with low clamping forces. Here, the support structure of the aluminum supporting jaw ensures stability. As a result of the low weight, only low jaw centrifugal forces are created during turning operations. As a result, plastic jaws are also suitable for high machining speeds up to 6,000 rpm. In addition, they do not leave any clamping marks even on ground parts or parts with a surface finish. Exchangeable clamping inserts also make the solution attractive from cost aspects as well.

Oscillating mounted 6-jaw chuck ensures high repeat accuracy

Hybrid chucks combine a classic centering chuck and a round magnetic chuck. They center the workpieces and clamp them without any deformations

The smaller the tolerances on the workpiece and the higher the required repeat accuracy, the more speaks in favor of oscillating balancing 6-jaw chucks. They consist of a central chuck piston carrying three inner pendulums aligned at 120°. Each pendulum is connected to two base jaws. This ensures workpiece centering between six contact points, which can be adjusted in pairs. As the clamping forces are directed towards the chuck center, optimal centering is achieved without distortion of the workpiece even for raw parts.

Workpieces are aligned and clamped in the 6-jaw chucks in no time at all. The chucks are perfectly adapted to the raw part with their oscillating jaws. For finish machining or for clamping pre-turned surfaces, the pendulums can be clamped similar to the pendulum jaws in the center positions, meaning all six jaws can move concentrically. Because of its high precision, it is possible to eliminate entire production steps, for example, by reaching tolerances during the finishing process that would otherwise only be reached in complex grinding operations.

Radial pole technology for interfering contour-free machining

Magnetic chucks with electrically activated permanent magnets are a real set-up time killer for low-deformation workpiece clamping. These are used in different versions for low-deformation workpiece clamping. The most common are radial pole plates for which the magnetic elements are arranged radially around the center. With them, bearing rings for instance can be machined in a single set-up on the outer and inner diameter and on the front side. As the magnetic field acts into the outermost peripheral zone, even large workpieces are clamped securely and without any deformations. Due to the two-dimensional holding force, the machining takes place largely without any vibrations. The protects the cutting edges of the tools and improves the quality of the workpiece surface.

To align the workpieces, the holding force can be adjusted using the control system or the holding force regulation. In order to ensure optimum stability, radial pole plates up to a diameter of 4,000 mm should be produced from a single piece. For larger plate diameters, plates in segmental design may be advantageous as these can be transported more easily. To suit the respective application, there are standardized radial pole plates in three versions: for grinding operations, as an AlNiCo single magnet system; for turning operations as an AlNiCo double magnet system with high holding forces. And finally for demanding volume machining with milling and turning as an extra strong AlNiCo neodymium magnet system.

Square pole technology increases flexibility

Users wishing to act flexibly on mill/turn centers combine magnetic chucks with square pole technology with an efficient pair: they use the magnetic chucks both on top for clamping workpieces and downwards for flexibly placing the clamping solution on the machine table. Such a solution can be set up and loaded with a workpiece in just a few minutes. Here, variable pole extensions ensure a safe and at the same time deformation-free

workpiece clamping. Without additional set-up effort, workpieces of varying sizes can be machined alternately with a high level of precision on the quadratic pole plates from three or five sides. With the aid of a multi-level holding force control system, the parts can be aligned within seconds and clamped without any deformations by means of a short current pulse. Like with the radial pole plates, no additional energy feeding is required for square pole technology after having activated the permanent magnet. Compared to conventional clamping solutions, the set-up time is reduced by 30 to 80 percent.

Whether they are round, square or cube-shaped, made of steel or cast iron – the doubled square pole plates in this application facilitate a highly flexible and at the same time deformation-free workpiece clamping.

Hybrid chucks combine radial pole technology and a centering chuck

The peaks of the low-deformation workpiece clamping are formed by hybrid chucks, for which the technology of a classic 3 or 6-jaw centering chuck is combined with the technology of a radial pole plate. The clamping process is designed extremely easily: the workpiece can be manually inserted into the chuck, which will be centered by three chuck jaws, and then securely clamped by electropermanent magnets. Particularly for large rings it is worthwhile that vibrations are eliminated, which has an effect both on the workpiece quality and the tool costs. The parts are simply pre-roughed. Then the magnet is temporarily deactivated in order to release workpiece warpings, and then the part can be finish turned. The hybrid chucks can also be activated at varying power levels. They are suitable for use on revolving lathes, mill/turn machines, vertical pick-up lathes and special machines. IPF

Article Courtesy: SCHUNK Intec India Private Limited

For details, contact Satish Sadasivan on Tel: 080 4053 8999 or Email: info@in.schunk.com

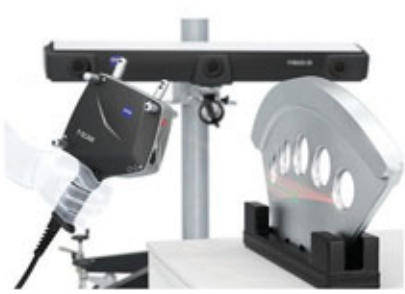
TECH BYTE

ZEISS COMET 8M and ZEISS T-SCAN 20 offer higher resolution

ZEISS has released two advanced measuring systems, the new 3D sensor ZEISS COMET 8M and the ZEISS T-SCAN 20 handheld laser scanner.

The new compact 3D sensor ZEISS COMET 8M is equipped with an 8-megapixel camera and is therefore the new, high-res version of the ZEISS COMET L□D 2. "We are using this new resolution to tap into the application fields of turbine blades and consumer electronics," explained Markus Eßer, Head of ZEISS Optotechnik. After all, to check whether these complex precision parts are in line with the prescribed tolerances, the data captured using the sensor has to be highly precise. In order to complete the different measuring tasks perfectly, users can opt for one of many lenses – and switching measuring fields is still so easy. The ZEISS COMET 8M offers a host of benefits besides: the 3D sensor is easy to transport, construct and calibrate.

The new ZEISS COMET 8M blue light 3D Scanner



The new ZEISS T-SCAN 20 hand-held laser scanner and probing system

ZEISS has also developed a mid-range segment for its modular laser scanner systems. The ZEISS T-TRACK 20 laser scanner tracking unit has a measuring volume of 20 m3: which is coupled with a scanner and touch probe, offering a hassle free measurement solution.

"The new system was completely revamped – and we now rely exclusively on products from the ZEISS Group. After all, we have the skills for optics and cameras in-house," said Eßer. These technical enhancements enable as yet unmatched precision that is achieved across the measuring volume and is verifiable following DIN EN ISO 10360. The ZEISS T-SCAN 20 enables greater mobility – including for at-line measurements.

"The new systems deliver spotless data at the high speed users have come to expect. We have managed to triple the measuring volume and drastically reduce measurement uncertainty," said Eßer. IPF

Quality gas detectors can make a difference between life and death

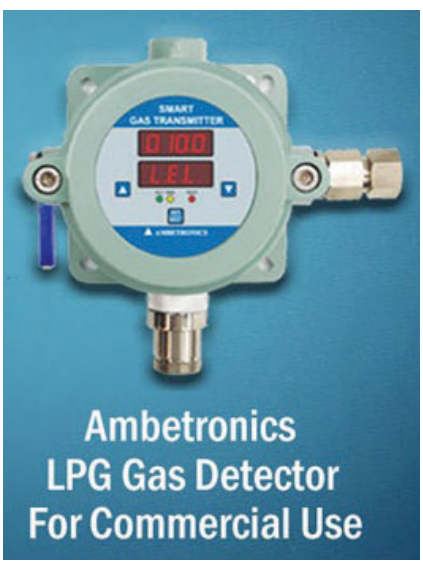
Explosion due to gas (LPG or PNG) leak can severely damage property and can also lead to causalities. Hence, installing a gas detector of good grade is very crucial to have an optimum protection against explosions and mishaps.

Although food is the most important 'daily bread' for human living, cooking of the same can be life taking as well. Whether it's a stove, grill, fryer or any other cooking equipment, LPG and PNG leaks present a constant flammable risk to the workers as well as to the property.

Back in 2017, a fire claimed 12 lives at Bhanu sweatmeat shop in Saki Naka. Owing to which, BMC had directed all distributers, consumers and commercial establishments to install gas leak detectors at their premises. Despite of such mandatory instructions given by BMC, many commercial units are seen violating the safety norms even today.

What we do is: Either install a low quality gas detector and compromise on safety or file an FIR followed by a huge media coverage and some relief amount to the affected families. That's it! The root-cause and so the preventive measures are completely ignored.

In order to have an optimum protection against LPG explosions and mishaps, installing a LPG gas detector of good grade is very crucial. However, with so many choices available today, it's undoubtedly challenging to pick one



that's perfect for your needs.

Ambetronics LPG leak detectors consists of powerful gas sensors that are capable of detecting even the smallest leak thereby alerting the workers and the concerned authorities before the situation gets out of control.

Listed below are the most common questions that are asked by the customers:

1. Which gas sensor is used in our gas detector?

In order to offer precise gas leak detection, Ambetronics uses Pellistor/ Catalytic Bead Sensor that are capable of detecting the concentration of LPG/PNG gas in 0–100% LEL range having a resolution of 1 and an accuracy of ±2% of full scale.

2. Where will the gas sensor be located?

LPG gas is heavier than air and hence at the time of gas leakage it sits to the floor level. Whereas PNG being lighter than air it tries to escape higher to the ceiling.

In order to have an accurate detection, we recommend to mount our gas detector at a distance of:

- LPG gas detector: 6 inches to 1 feet from the ground surface.
- PNG Gas Detector: 1 feet above to the potential leakage source of PNG Pipeline.

3. How does the alarming system work?

LPG and PNG gases are highly flammable and explosive above 40% LEL. Hence whenever there is gas leak, it is very crucial to alert the workers as well as the security guards at the earliest. Ambetronics offers an audiovisual alarm that gives out two level indication using a hooter cum flasher.

For small kitchen sites, buzzer (with 80 db loudness) can be used instead of using a hooter (of 100 db loudness).

4. In case of gas leak, how will the gas detection system control the situation from worsening?

In addition to the highly sensitive gas sensors and prompt alarming system that alerts the workers within seconds of gas leakage, Ambetronics gas detection system also minimises the

risk of damage by:

- Automatically switches ON the exhaust fan, in order to ventilate the kitchen area
- Automatically switches OFF the gas valve, in order to prevent further gas accumulation in air
- Our Smart IoT Module (SIM) can send alert messages to concerned kitchen authorities – Informing them remotely about the disastrous situation even if they are not prevent at the site.

5. Can the gas detection system withstand the environmental hazards?

Other than the risk of fire & explosion, kitchen areas are also prone harsh environments consisting of dust, oil fumes, greasy floors, water splashes, etc. Hence to withstand and ensure efficient leak detection even at such tricky environments, Ambetronics gas detectors and gas monitors are:

- Enclosed in a flame-proof housing made up of cast aluminum alloy, LM-6.
- IP 65 compliant ensuring protection from water, oil fumes and dust.

6. Are the products certified?

To ensure the long life and precise detection results at the site, Ambetronics offers complete 1 year instrument warranty for its gas detectors and gas monitors. One year sensor warranty is applicable only at ambient temperature applications as the sensor may get damaged at higher concentration online processes. Ambetronics products are PESO, CE, CMRI certified.

7. Do we offer technical support?

At Ambetronics we believe in offering optimum detection solution and that involves thorough study of the kitchen site and its probable leak areas. Our Services Engineers personally monitor the entire installation process and are available 365X24X7 for any further support needed. IPF

For details, contact Ambetronics Engineers Pvt Ltd on Tel: 022 6167 3056, Mob: 093206 19646, Email: sales11@ambetronics.com or visit www.ambetronics.com

NEWS SNIPPET

PFERD offers abrasive grain VICTOGRAIN

PFERD christened its new abrasive grain VICTOGRAIN. "The precision-formed, triangular shape of the high-performance abrasive is one of the reasons for the grain's superior performance," explained Jörn Bielenberg, CEO of the Marienheide based manufacturer of solutions for work on surfaces and cutting materials.

The triangles of abrasive grain in the VICTOGRAIN are identical in shape and size, and their cutting edges are applied to the work piece at the optimum angle, meaning that each individual grain needs very little energy to penetrate the work piece. In this way, the user benefits from an efficient machining process with fast work progress, a long tool life and a reduced influx of heat into the work piece. In addition, a lower level of performance is required of the drive system:

"VICTOGRAIN products can even achieve their extremely high performance levels on commercially available angle grinders," said Bielenberg. The triangles of abrasive grain in the VICTOGRAIN are fixed to the substrate on one of their sides. This means they are securely fixed in place and, together with their slim design, offer an extremely large chip space in order to further improve machining efficiency. The structure of the triangular VICTOGRAIN has also been specially adapted to maximise results. The very small crystals inside the triangles ensure optimum wear characteristics as sharp cutting edges are always exposed, although only the minimum amount of the abrasive grain or the triangle breaks off.

"VICTOGRAIN is among the most effective abrasives worldwide," claimed Jörn Bielenberg, emphasising the strategic importance of the new high-performance abrasive. He added, "A series of comprehensive tests under a wide variety of conditions have demonstrated that it is vastly superior to conventional ceramic oxide grain, not to mention special derivatives and developments based on ceramic oxide grain." This makes VICTOGRAIN an extremely promising proposition on the market: for PFERD and retailers in particular. "What's more, VICTOGRAIN offers end users a level of profitability that provides a buffer in terms of costs, which is always crucial," said Bielenberg.

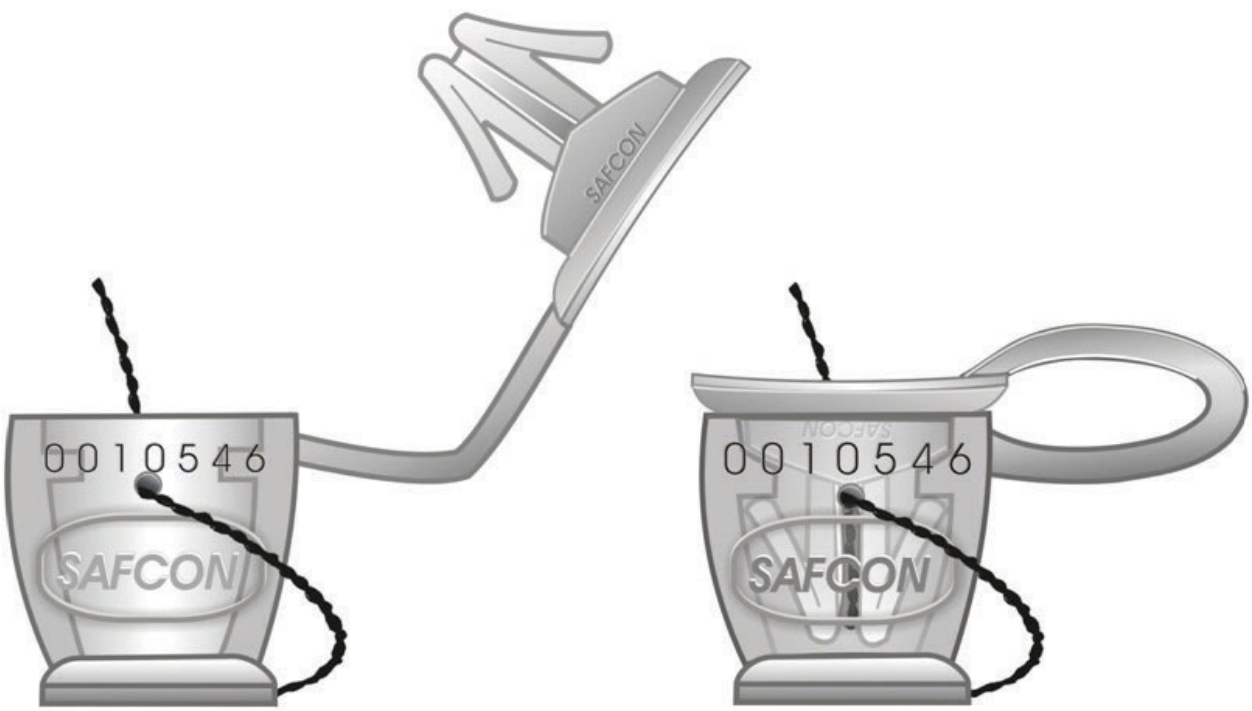
VICTOGRAIN tools are available now as COMBICLICK fibre discs, COMBIDISC abrasive discs and midget fibre discs, CC-GRIND-SOLID and CC-GRIND-FLEX variants in a range of dimensions.

PFERDERGONOMICS recommends a range of VICTOGRAIN tools for sustainably reducing vibration, noise and dust development, and for improving working comfort. PFRDEFFICIENCY recommends a range of VICTOGRAIN tools for working for long periods with low levels of fatigue, whilst saving resources and achieving perfect results as quickly as possible. In India, SWIT is the authorised partner of PFERD Tools. IPF

For details, contact Bangalore-based SWIT (the authorised partner of PFERD for India) on Tel: 080 4218 7117 or visit www.swit.in

Keeping electric meters safe with right security seals

A sealing programme is the first line of defence to energy meter protection, since it is a simple indication at the meter that something is wrong. According to **Rajesh Kumar Banka**, by selecting right security seals companies can not only keep electric meters safe, but also prevent revenue losses.



Safcon Seals Private Limited, a Kolkata based ISO 9001:2015 certified security seal company, offers a wide range of innovative patented security seals for energy meters, meter boxes, meter terminal covers, CT-PT and transformers etc to provide highest level of protection and prevention of meter tampering and power theft. Safcon is a professional manufacturer of tamper evident security seals in India and exports their quality products worldwide. With their over two decades experience in developing, manufacturing and supplying electric meter seals to domestic and international utilities, they have established themselves as meter security seals experts in the country. Safcon is the first manufacturers of polycarbonate security seals and their patented Metgrip Polycarbonate security seal is most popular meter security seal and most of the specifications of meter security seal of electricity distribution companies are derived from it.

Safcon's three varieties of seals - Metgrip Polycarbonate Security Seals; Meter Sentry Cable Security Seals, and Securelab Tamper Resistant Security Label Seals (popularly known as Paper Seals or sticker seals) - have combined to design a system that provides ultra-high security to all energy meters.

Metgrip polycarbonate security seal is a low cost combination of high strength transparent, polycarbonate body and non-corrosive non-magnetic pull-resistant stainless steel sealing wire that offers great strength and security, tool-less application and transparent tamper indicative locking mechanism.

Metgrip Polycarbonate Security Seal is especially developed for electric meters, meter box applications. The Metgrip Polycarbonate seal is designed for single use and cannot be accidentally opened. Cutting pliers required to cut the sealing wire for removal. Its transparent body gives a complete visualisation of its sealing mechanism. This mechanism is the most critical part of the seal, since most of tampering occurs at this part. Moreover, if the body is transparent,

the sign of internal tampering will be easily detected.

Each seal is provided with hi-relief embossed customer's logo and non-repeat highly visible seven digit unique highly visible serial numbering. Hence even company's own employees cannot replace these seals even if they so desire. The seals are provided with hi-relief embossed in-moulding utility's logo to resist duplication of security seal. The serial numbering is thermo engraved which is deeply penetrated into seal body and cannot be manipulated for malpractice.

Metgrip Seal is a patented seal and cannot be copied by other manufacturers. The high tech manufacturing process of this seal prevents its reproduction by illegal plant of low technical standards and thus reduces the chance of duplicate seal by counterfeiter. Every aspect of the design of the security seal is based on Safcon's years of experience in the field. Any attempt of tampering provides clear evidence of tampering.

Meter Sentry Cable Security Seal is a patented barrier Security Seal to secure utility meters, for HT/LT connections, transformers; meter boxes etc for protecting them from tampering and prevent power theft. The security seal is highly reliable and easy to lock. Each seal is supplied with a locking key. Just insert cable end through cross-drilled hole and tighten the locking key until locking key handle breaks. Once locked it is a keyless lock and can be opened only by cutting the cable. They are impossible to tamper as the seal withstand 800°F temperature and there is no way to open the seal with the use of any chemical, petrol etc. Cable cutter required for removal. The body is made of aluminum alloy and the stainless steel cable is used for sealing wire purpose. The cable seal is provided with customer logo, unique consecutive seven digit serial number, barcode and hidden security mark. The all metal security seal withstand 800 degree Fahrenheit and thus impossible to open by excessive heat or boiling water. The shear-off

locking mechanism is foolproof.

Securelab Tamper Resistant Security Label Seals inform the public of the safety risks and legal implications of tampering with electric meters and utility apparatus, plus provide an auxiliary seal. Use of the "right material" ensures over 10-year life, wide temperature extremes and exposure to UV light. The security seal is imprinted with the utility's logo and a warning message in any language. Each security label is serialised for unique identification. The tamper evident label seals provide an indication of tampering when removal is attempted. The security seal is provided with invisible unique security marks readable by special handheld detector devices for authentication and to make out duplicate seals.

Role of meter seals to prevent power theft

A sealing programme is the first line of defence to energy meter protection, since it is a simple indication at the meter that something is wrong. The effectiveness of security seals is strongly dependent on the proper protocols for using them. These protocols are the official and unofficial procedures used for seal procurement, storage, record keeping, installation, inspection, removal, disposal, reporting, interpreting findings and training. A well researched designed easy to install meter security seals with a good protocol in place can provide an excellent security to utility meters for provide revenue protection. The good news about security seals is that - if used correctly - they are very effective for revenue protection. The bad news is that using them correctly can take a lot of work. You can't mindlessly slap seals on a meter and expect them to magically solve all your theft and tampering problems.

The success of meter protection and power theft control largely depends on:

1. Selection of right security seal
2. Selection of reliable professional manufacturer
3. Procurement procedures
4. Safeguarding of specifications
5. Storage and issuing
6. Correct application & disposal
7. Inspection protocol
8. Motivation
9. Auditing techniques

These are individual links of a chain and if any one link is weak, desired or expected results cannot be achieved.

An important question that one always comes across is how to identify fake seals and prevent use of fake seals. The answer to this question is very simple. If each aspect of the sealing system is in place and taken care of, there will not be any place for fake seals.

Individuality and integrity is most important aspect in selection of a meter security seals. Identical seals manufactured by more than one company must be avoided. All reputed, reliable and trusted manufacturers offer their own standard, time tested, patented security seals with necessary customisation to meet individual requirements whereas non-professionals manufacturers can offer you similar looking seals or you give them sample they are ready to offer you similar security seals.

Unfortunately, of late it is observed that few of the electric distribution companies have started demanding offers for identical meter seals from all tenderers with same design, shape, size and giving birth to a critical problem which will not only kill their own sealing system but will have disastrous affect on other electric utilities of the country in future. For example, if you are getting offers and samples of identical seals from six different manufacturers and out of them, order is being placed to one or two vendors. The rest four or five manufacturers who have invested to develop samples to participate in the tender, few of which may be morally or financially weak, to recover their investment back or even to earn money, they may sell their meter seals to counterfeiters at higher price. Such electric utilities are encouraging development of fake seals in the system.

Never encourage a vendor to reproduce another vendor's security seal as this will result in collapse of your sealing system soon. A long-term view is very important in selecting vendor and security seal design. Electric utilities all over the world never specify the size, shape in their specification. They give full weightage to the professional manufacturers, patented locking mechanism and only specify their specific customisation requirements. In selecting a reliable security seals, the locking mechanism is important and not the thickness or size of seal or diameter of sealing wire that is usually played in most specification.

Even some time impossible features are incorporated in the specification like features of a paper seals in polycarbonate seals or vice versa. This results into delay and finally acceptance of a poorly crafted seal as the arrival is close to the deadline. The system uses it, to meet the crisis, as statutory requirement. Each patented seal is designed with many aspects of tamper evidence and when one start playing with the design and dimension of patented seal; one loses the reliability of the seal which is developed after years of research and experience of the manufacturers. An easy to understand seal is more effective than a complicated seal that even the utility employees fail to understand.

Even to the meter installing contractors, meter seals must be provided by the electric utilities to keep authenticity and integrity of the company's official meter seals.

Another important point is that meter security seals must be procured by the Electric Utilities directly from reliable and reputed security seal manufacturers. Now-a-days, for ease and convenience, many a times, seals are procured from meter manufacturers' alongwith the electric meters. When there is a packaged order of meter seals with electric meters, you might find a fake report of shortage of meter seals. In this situation, to fulfill the order requirements, the meter manufacturer might resupply you with the seals of the same serial numbers reported missing.

Now the counterfeiters are having access to original meter seals with same serial number which enable them to tamper the meters and reseal the meter with original seal and it becomes impossible to trace the tampering. Thus the revenue loss is to electric utilities and this experience sets their minds that no meter seal is effective to protect the meters. Even to the meter installing contractors, meter seals must be provided by the electric utilities to keep authenticity and integrity of the company's official meter seals.

A hologram seal as popularly used on meter seal is not a proper tamper evident security seal in itself. Often the electric meters are installed in difficult to reach and poorly lit places, making it impossible to differentiate between original and fake/duplicate hologram. Being 2-3 dimension designs, it requires sufficient light and tilting space to ensure proper verification. It is almost impossible to differentiate between an original and duplicate hologram when they are pasted on installed meters at consumer site. They are required to be enlarged minimum by 50 times to make out the difference, which is not possible at consumer site. It is often found that the hologram seal is intact but the meter is tampered. Hence the purpose of hologram seal gets defeated.

Experience and technical knowledge of Safcon has led to the development of a unique new range of most reliable security seals which offers a precise solution to many security and protection related problems. By combining the benefits of special materials and security features, together with a clear understanding of a customer's requirements, Safcon Security Seal technology is unsurpassed. IPF

Rajesh Kumar Banka is Director of Safcon Seals Pvt Ltd, Kolkata, and has more than two decades' experience in international security seal business. Safcon is one of the few handful companies in the world, who provide complete security seal solutions – be it plastic, metal, adhesive or combination of plastic and metal seals. He can be reached on email sales@safcon.co.in

Ion Exchange's innovative products for water treatment challenges

Water is a scarce natural resource. With its diverse portfolio of products and services, Ion Exchange (India) Ltd has been helping its customers to overcome water and environment related challenges.

Water is a scarce natural resource. While humans have become the principal driver of environmental change, factors such as demography, economy and technology have significantly impacted our natural ecosystem. Maintaining a balance between the available resources and the ever-increasing water demand across all sectors presents a significant challenge today.

With a legacy spanning over five decades, Ion Exchange has been assessing and developing innovative products and solutions for water and environment related challenges. A diverse portfolio of products and services enable the company to offer complete solutions for water, waste water management, solid waste management and now waste to energy not just to industries and municipalities but also deliver a complete package of sustainable solutions to communities, institutions and homes.

INDION Disc Tube Reverse Osmosis (DTRO)

INDION DTRO, with its flat-sheet membrane technology, treats complex water with minimal pretreatment and footprint. It produces water which has very low dissolved solids, and is free from particulates, colloids and organic matter.

INDION Disc Tube Reverse Osmosis

INDION Multi Effect Evaporator

Some of the salient features of the INDION DTRO system include - provision for inline dosing, inbuilt clean-in-place (CIP) for periodic membrane cleaning, auto and manual control of entire reverse osmosis (RO) plant, built-in safety features such as dry run protection, overload protection, etc. to prevent high pressure pump and membrane system from damage, onscreen simulation of complete operation and fault indication and high pressure systems to maximise recovery.

The INDION DTRO System offers multiple benefits such as:

- Minimal pretreatment - INDION Multigrade Filter (MGF) and INDION Cartridge Filter (CF)
- Up to 95 per cent total dissolved solids (TDS) removal and efficient handling of TDS fluctuation
- Low membrane replacement cost
- Reusable quality of treated water
- Smaller footprint and modular units
- Upgradable system
- Easy availability of spares & services with short delivery periods

The system offers varied applications such as - fresh water generation for army, navy, cruise liners & submarines, treatment of landfill leachate, treatment of complex waste water generated from industries such as distillery, pharmaceutical, chemical, textile, tannery and many more.

INDION Multi Effect Evaporator (MEE)

The INDION MEE system compliments the INDION DTRO system to recover water and segregate dissolved solids present in the reject. The different types of systems offered by Ion Exchange include Falling Film (FF), Forced Circulation (FC), Thermo Vapour Re-compressor (TVR), Mechanical Vapour Re-compressor (MVR), Agitated Thin Film Dryer and Scraped Surface system. It uses evaporation and salt separation technology to convert the effluent to salt & reusable water thus achieving Zero Liquid Discharge (ZLD).

INDION effluent recycle solutions

are integrated to yield optimal benefits. For instance, recycle systems are combined with speciality water treatment chemical programmes that substantially reduce water discharge (for eg, cooling tower blowdown); & state-of-the-art effluent treatment plants are integrated with zero liquid discharge processes. They are backed by comprehensive operation & maintenance services, for high performance continuity.

INDION IPC Membrane Bioreactor (MBR)

INDION IPC MBR is an innovation in MBR technology that combines the advantages of flat sheet and hollow fibre membrane systems while eliminating disadvantages of classically flat sheet MBR. The patented IPC flatsheet PVDF membranes allow operating waste water plants at extraordinarily higher flux thereby lowering footprint and energy demand combined with extremely good chemical resistance and life of membranes. The treated effluent meets all the discharge standards and can be reused without using chemicals.

The IPC MBR plant offers significant advantages as compared to conventional MBR Membranes in performance and lifecycle costs of the recycle system. INDION IPC-MBR reduces the unit cost of water, making it affordable for use by municipal corporations & industries to treat effluent/sewage/ contaminated water, making it an alternate source of water. In addition, the technology is replicable and can be installed in housing complexes, hotels, institutions for similar purposes.

ANDICOS waste to energy

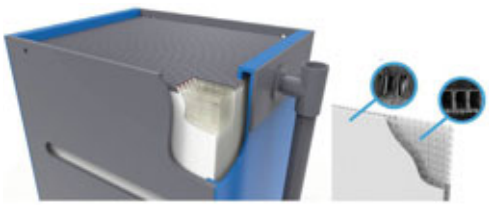
The ANDICOS system is an advanced integrated process for energy recovery through integration of waste water and organic solid waste.

The ANDICOS design integrates state-of-the-art technologies like INDION IPC MBR and INDION Advanced Bio-methanation process to treat a combination of solid waste generated in sewage treatment process and organic kitchen waste generated in homes & communities.

The combined waste is first homogenised in a pretreatment process followed by bio-methanation in the INDION Advanced Bio-methanation Reactor. The resultant biogas is further polished in a post treatment process to produce energy using biogas engine. Alternatively, the biogas can be further purified and compressed for use as an alternative fuel to compressed natural gas (CNG) or liquefied compressed natural gas (LNG) or used as heat source for producing hot water. The system is integrated with INDION Odour Control System. The heat generated from the biogas is used to dry the excess sludge to produce organic fertiliser that meets the required hygiene standards for use in agriculture and landscaping.

About Ion Exchange

Ion Exchange (India) Ltd (IEI) is a pioneer in water treatment with a legacy spanning over five decades. It offers water treatment solutions across the entire water cycle - that is from water treatment and conservation, sea water desalination through production and processes to effluent treatment, recycle/zero discharge and drinking water.

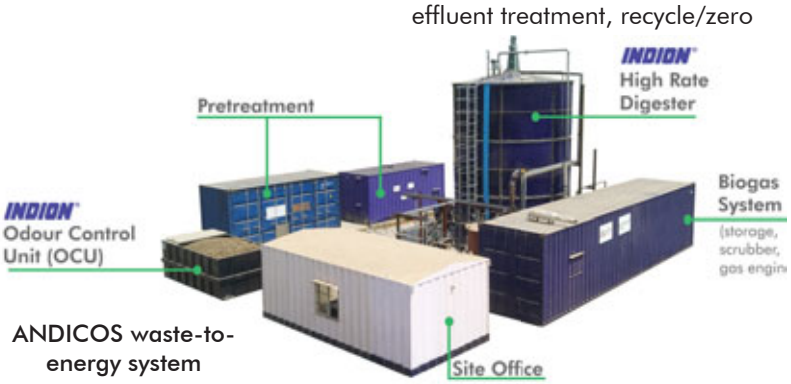


INDION IPC Membrane Bioreactor

IEI's first R&D centre was established in 1965, (the oldest in the water segment in India) and has developed a host of products & technologies that have enabled us to retain our leadership in innovation & quality. IEI has over 100 new products developed/launched and over 10 patents in the water treatment domain. It also has a rich history and continue to form technical partnerships with the world's leading technology companies. Its R&D Centers are located in Maharashtra (for engineering production development), Andhra Pradesh (for chemicals) and Gujarat (for resins).

Formed in 1964, IEI, renowned for its world class ion exchange resins for applications in industries such as pharmaceutical, food & beverage, nuclear, chemical, sugar and many more, pioneered the production of resins in India with the country's first resin manufacturing unit at Ankleshwar, Gujarat which was ISO 9001 certified and was also the first in India with an FDA (India) approval for manufacturing pharmaceutical grade speciality resins. Its industrial chemical plant at Patancheru was also the first facility in the water treatment chemical sector to obtain an ISO 9001 certification. IEI introduced the Reverse Osmosis (RO) concept into the country and were the first in India to manufacture RO membrane element at Halol, Kalol in Gujarat. IEI also manufactures high performance membranes (HYDRAMEM) which belongs to the latest generation of membrane technology for industrial, institutional and domestic applications. Its integrated RO membrane manufacturing facility was inaugurated at Verna, Goa in 2017. IPF

For details on Ion Exchange (India) Ltd, visit www.ionindia.com



ANDICOS waste-to-energy system

Smart solutions help auto parts firm increase storage space by 300%

With smart storage solutions of Jay Storage Solutions, the auto spare parts maker was able to increase its floor space by 30-35 per cent and add new building.

Since 1984, Jay Storage Solutions has pioneered the design of intelligent storage solutions. The comprehensive range of warehousing, in-plant material handling equipment and A-Z storage solutions caters to a wide variety of needs across industry segments and applications.

Recently, the company's smart storage solution helped an automobile spare parts manufacturer in the new brown-field expansion project to enhance thier productivity. The auto spare part manufacturer has 7-8 plants situated in different areas of Maharashtra & Gujarat. While this was the mother plant, all the finished goods from different manufacturing sites was largely used here as work in process (WIP) material. The systems provided by Jay Storage Solutions (JSS) were well appreciated by auto part maker's management.

The automobile spare-parts manufacturer had various challenges in its existing set-up. However, with JSS' innovative solutions the manufacturer could increase its floor space by 30-35 per cent, freeing up additional space, adding new building while simultaneously increasing storage space by more than 300 per cent.

After a breif study of the manufacturer's existing set-up, Jay Storage Solutions sensed that the manufacturer need not go for a new set-up, but instead they can achieve their goals in this existing set-up by rearranging the floor plan, thereby material flow efficiency can be increased, and ultimately resulting in manpower reduction, increased productivity, easy access to all material, inventory visibility & better flow of goods.

Before providing the solution, an in-depth study and analysis was made, in the manufacturing process, material handling flow, existing storage racking systems, inventory systems used, packing, repacking & despatch, so as to understand their needs & future goals. Together with the client, JSS identified the pain areas, movement of goods, and came up with a combination of solution.

The solution was indigenoused for each area, eg small components storage had a very low inventory visibility, so JSS came out with a 'multi-tier Long span shelve racking' and installated it right at the place where it was required for consumption. For the in-process & WIP goods, which flowed from other plants was labelled and stored in 'mobile pallet racking' system, which not only increased their storage capacity to 250-300 per cent, but at the same time reduced manpower & increased storage & retreival time. Other solutions for die-tools storage involved customised design of pallets proved a boon. Batch produced finished goods was stored in 'drive-in pallet racking' which resulted in reducing the despatch time by 50 per cent. The system helped this automobile spare parts manufacturer in easy identification of goods, easily segregate different goods, bifurcate the goods & thus increased productivity.

Jay Storage Solutions has always believed to help its customers achieve their storage goals in their business & thus give them a competetive edge over competition. In the process, JSS provides different solutions, products and services for customers who get efficient storage for goods, ultimately leading to effective identification, inventory, segregation, bifurcation & flow of their goods. "Goods stored in our given storage systems helped this automobile spare parts manufacturer to utilise to the full capacity of their plant, it also helped to save additional space required for storage of goods. Due to our racking systems, overall operational efficieny of the customer's goods got increased & smooth. This helped the client, both directly & indirectly to save money, time & resources," said JSS in a statement.

In today's industrial & supply chain industry, to get a competitive edge over other, it is very necessary for companies to provide an effective, efficient & smart storage system for internal process & for delivery of their products to its customers. "We are determined to be the storage solutions industry benchmark through value creation, excellence for its people & overall conduct. Yes, we enhance & optimise warehouse/storage spaces through innovative, intelligent and cost-effective solutions," said Jay Storage Solutions. IPF

For details, contact Jay Storage Solutions on Mob: 091122 88155, email: sales@jaystoragesolutions.com or visit www.jaystoragesolutions.com

CASE STUDY

FLIR thermal cameras help companies save millions

CNA Insurance saves clients more than € 11 million per year in energy and repair costs with thermal imaging surveys.

Electrical systems require periodic maintenance and inspection to ensure power is supplied to buildings and facilities in a safe and efficient manner. That's why CNA Insurance conducted an infrared (IR) survey using FLIR thermal cameras at a fruit processing facility, where they identified 14 faults that could have started a fire. They discovered one critical, three serious, and 10 intermediate faults. If the problems went undetected, the facility could have lost 100 per cent of its contents - an estimated € 3.5 million loss - due to smoke and fire damage in storage areas containing processed fruit. By catching the faults early, CNA Insurance also saved the fruit processor nearly € 65,000 in electrical repair and energy costs.

While electrical systems are among the most reliable equipment, they require periodic maintenance and inspection to continue to supply power to buildings and facilities in a safe and efficient manner. Section 21.17.5 of the NFPA 70B-2006 edition recommends that building owners complete IR surveys annually. For this reason, CNA Insurance has offered IR thermography surveys to new and existing clients since 2005. Thermal imaging scans decrease the chance for fire loss, reduce energy costs, and help prevent shutdowns of mechanical systems and key production equipment.

Traditionally, insurance companies take a reactive approach to property loss that results from equipment breakdown or failure. Lacking a way to prevent them from happening in the first place, they rely on fire-protection systems such as sprinklers to minimise the impact of property losses. But thermal imaging cameras enable insurance companies to find potential problems that the naked eye can't see - before a breakdown or failure occurs.

Thermal imaging cameras detect heat that is emitted from faulty equipment in the form of infrared energy. Everything with a temperature above absolute zero releases

Figure 1. FLIR E95 Professional Thermal Camera

thermal, or infrared, energy. The light composed of this energy isn't visible because its wavelength is too long to be detected by the human eye. The higher an object's temperature, the greater the IR radiation it emits. Thermal cameras cannot only "see" this light, but they can also delineate hot areas from cool areas.

Over a five-year period, CNA's certified thermographers conducted 6,445 surveys using 22 FLIR thermal cameras, averaging about 100 surveys per month. They found thousands of faults and deficiencies, averaging 7.3 faults per report. CAN Insurance estimates that clients who have had IR scans have saved more than € 11 million per year.

Based on the typical experience of CNA thermographers, the value of an IR survey is estimated at € 1,700. That equates to more than € 11 million total value in a five-year period. These IR surveys have saved CNA's clients an estimated total of € 47.5 million in energy savings and electrical repair costs, or about € 4 saved for every € 1 value of an IR survey.

But what factors are these estimates based on? These savings include both the electrical repair costs and the recovered energy costs. Electrical repair cost savings are estimated at € 432 for minor or intermediate faults and € 2,600 for serious or critical faults. Energy savings can be calculated using a tool called "Indirect Power Calculations from Surface Temperatures," made available by FLIR and the Infrared Training Center (ITC). The following are considered reasonable estimates: €1.50/day for critical faults; €0.75/ day for serious; €0.40/day for intermediate; and €0.15/day for minor. A cost of €0. 15 per kilowatt hour (KWH) is used to develop these estimates, but energy costs may be higher in some areas. CNA Insurance calculates energy savings using 250 working days in a year (estimating 10 holidays) to estimate energy savings for each fault.

Insurance loss statistics showed that "average" electrical fire losses were about €173,000 for circuit breakers; €434,000 for switchgear; and almost €1 million for Motor Control Center (MCC) rooms. A reasonable average electrical fire loss is estimated to be €648,000 based on inflation factors and CNA Insurance's loss experience.

Figure 2. Switchgear fire that resulted in €2.3 million in damage. This facility declined an IR survey offer by a CNA thermographer just months before the fire happened.

CNA Insurance uses the average electrical loss of €648,000 or the specific loss by type (circuit breakers, switchgear, or MCC rooms) for critical and serious faults discovered during the IR survey. If the fault is found on specialised equipment, they use specific replacement-cost information for the type or piece of equipment. Operating equipment until failure not only results in costly repairs, but can also prevent a facility from producing products, or may shut down a facility entirely. CNA's reports include potential business interruption cost savings information associated when faults are proactively identified and corrected on critical equipment.

CNA thermographers identified one or more critical or serious faults on 3,067 of the total surveys completed in a five-year period. If they apply the €648,000 average electrical fire estimate, that adds up to €2 billion in electrical fire losses avoided. Adding in the estimated costs of typical business and production interruption raises the total even higher. Most of these savings are realized by CNA Insurance, but the clients also benefit from avoiding the insurance policy deductible costs.

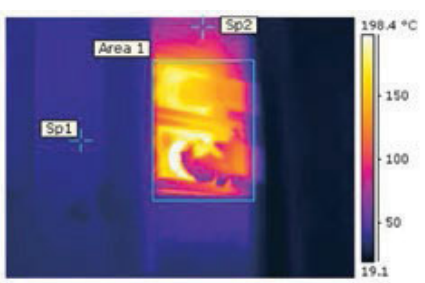


Figure 3. IR image showing a critical thermal fault on an electrical conductor at a fruit processing plant.

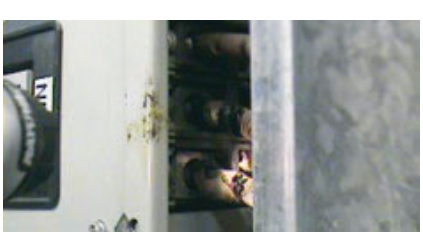


Figure 4. Comparison visual image shows charring of the conductor insulation in the area of the thermal fault.

IR thermography surveys have helped CNA to strengthen their risk management programs and integrate services that help protect lives, safeguard assets, and increase profitability. IPF

Case Study Courtesy: FLIR

For more information about thermal imaging cameras or about this application, please visit www.flir.com/thermography-cameras

New igus e-chain concept with dynamic pins

Safely guided in any orientation, the new lokchain energy supply system of igus automatically increases the operational reliability.

The global manufacturer of energy chain systems and polymer plain bearings, igus GmbH has developed the lokchain energy chain with extending and retracting pins for new machine design concepts. The goal of the new lokchain energy supply system from igus is to automatically increase the operational reliability. This has the potential to reinvent power, data and media supply in many dynamic applications. Automatically extending pins hold the e-chain securely in the guide, allowing completely new solutions in vertical, hanging or circular movement applications.

Whether high-tech or low-tech applications, igus is constantly researching new energy chain solutions to meet the special requirements of industrial applications for flexibility, reliability and low costs. For this reason, the motion plastics specialist developed the lokchain, a new concept consisting of an e-chain with automatically extending pins and a compact guide trough for the dynamic guidance of energy chains. This allows hanging, vertical or side-mounted use of the system with or without lateral acceleration. Even long travels with a moving lower run are possible by fixing the lokchain in the upper run trough. The system can also be used in vertical circular applications. For example, the lokchain is an obvious choice for use in the compact space of rotating C-arm X-ray scanners. The flexibility of this e-chain offers the user the opportunity to develop completely new machine design concepts.

The lokchain principle: automatically extending pins (blue) hold the lokchain firmly in the guide trough. When the chain link bends into the radius, the pin retracts automatically (green) and releases the chain. Due to its flexibility, the e-chain can be used for example in a rotating C-arm X-ray device.

The lokchain principle: automatic locking pin system

The basic principle of lokchain is simple: pins integrated into the side links hold the energy chain firmly in the guide trough. When the chain link is bent into a radius, the pin retracts automatically and releases the chain from the guide. When the chain link comes out of the radius and engages the trough, the pin extends and automatically secures itself back into the trough. This eliminates the need for more costly guide trough systems. In this way, the machine builder saves money.

Silent operation and long service life, even with small bend radii

Due to the special construction of the lokchain there is hardly any abrasion and wear, so the service life of the e-chain is increased. The prototype proved its durability successfully in an endurance test carried out in the 2,750 square metre laboratory at igus. Another advantage of the new e-chain system is the mobility of the chain links. They ensure that the energy chain operates safely and quietly, even with small bending radii and over long travel distances. The new e-chain is currently in the prototype phase, which gives customers the opportunity to help shape the required size and design. Individual requests are always welcome and will be implemented quickly – from prototypes and small batch sizes up to volume production.

Igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 3,800 people around the world. In 2017, igus generated a turnover of 690 million euros with motion plastics, plastic components for moving applications. Igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs. IPF

For details, contact Harish Bhooshanan, Product Manager (E-ChainSystems) of igus India Pvt Ltd, Bangalore, on Tel: 080 4912 7809, email: harish@igus.in, or visit www.igus.in

Washmatic India launches flight type dishwasher in India

This Rackless Conveyor dishwasher comes in 4 different models, from 3000 plates per hour to 8000 plates per hour.

India's largest manufacturer of commercial dishwashers, Washmatic India, has launched its flight type dishwashers recently. Maintaining the ultimate levels of customer satisfaction, Washmatic India endeavors to bring the best quality dishwashing machines, crate washers, accessories and chemicals. The company excels in offering commercial and industrial warewashers that can allow bulk washing, maintaining the best level of cleanliness and hygiene in kitchens. These dishwashing machines come with innovative features that make the cleaning task easier and more effective.

"We have received an overwhelming response from the market since its commercial launch last month, owing to the economical pricing, company's reputation in the market as the best after sales service provider in this field and lowest ownership costs. Many orders were finalised and installations were completed in time" said Jacob George, CEO, Washmatic India.

He added, "With this, we have the complete range now, from glasswashers, undercounter dishwashers, hood type dishwashers, conveyor dishwashers and now to complete the range, flight type dishwashers."

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>
> **Jacob George,** CEO, Washmatic India

The company has introduced the Rackless Conveyor dishwasher (Flight type dishwasher) that comes in 4 different models, from 3000 plates per hour to 8000 plates per hour. According to the spokesperson of the company, the dishwasher has several advanced features that make it a must-have cleaning appliance for commercial kitchens. The dishwashing machine also has easily removable trays, washing and rinsing arms and filters. Besides, its unique air break proves very effective in controlling contamination and maintaining hygiene in plumbing lines.

The spokesperson reveals that these dishwashers for commercial use comes with indigenously designed and developed high quality components. These components ensure perfect washing of utensils and dishes and are designed to offer the best results under Indian working conditions. The machine can set to operate on the auto mode, and can start washing automatically. The machine is capable of high temperature washing with the detergent, which ensure the best washing results and 100-per cent hygiene.

Besides the commercial dishwashers, the company also specialises in industrial crate washer that can provide superior washing results in any industry. The company believes in integrating the latest technology in its machines that can improve the reliability, flexibility and performance to handle voluminous washing tasks in a commercial setup.

Washmatic, which commenced its operations in 2006, is focused on providing end-to-end ware washing solutions to all establishments, which serve food and beverages. It manufactures all type of dishwashers, glasswashers accessories and crate washers, which are marketed through its countrywide sales network, consisting of a number of own offices and distributors. The Group Companies are also engaged in providing solutions to hospitality segment in the area of food & beverage production as well as services. IPF

For details, contact Aanchal Sharma on Tel: 011 4315 7300, Mob: 088000 23044, Email: sales@washmaticindia.com or visit http://www.washmaticindia.com

Tips to select the right generator set

Construction sites and infrastructure projects have crunched timelines. Sudden power loss brings the entire project to a standstill. Hence, selecting the right genset is of pivotal importance. **Mithilesh Singh**, Marketing Communications - Asia Pacific, FG Wilson, shares his views about the lookout points when it comes to selection of gensets and details on the pointers that are to be considered so that the generator set will have a long lifetime.

Working on construction sites or highway projects are tedious tasks by itself. But picture this, your deadline is approaching, everyone is hard at work, your welding torches and electric saws are up and running, and suddenly you lose power. Instantly bringing your entire project to a standstill and pushing your timelines by a mile, power loss and fluctuation can truly affect the quality of any project. This makes it imperative for you to have a generator set running to provide temporary power, possibly running all day for the duration of the project. To this end, generator sets powered by diesel engines seem to be the resource of choice. The Indian diesel generator market is now seeing an interesting turn of events with a world-renowned brand which has been around for over 50 years, making its mark in India.

There are many different generator sets in the market, each catering to different needs. The best choice for you would depend on your needs. You have to look into various factors, the first of which is the frequency of use for your generator set. If you would need to use the generator set more often, it would be better to invest in a reliable model.

The new and possibly strongest addition to the Indian genset market, FG Wilson, has brought to the country, an array of options for you to choose from. Ranging from 10 to 200 kVA, these generator sets are sourced and fully supported in India. They are also CPCB II emission compliant to suit the market requirements.

Mithilesh Singh, Marketing Communications - Asia Pacific, FG Wilson

The next factor to be considered is reliability. A generator set is a long-term investment and must, therefore, be capable of living up to the price you are paying & ought to be producing reliable, consistent and steady power. Mithilesh Singh from the FG Wilson India team says, “With over 625,000 machines operating across the world, FG Wilson takes no risks with quality or performance. Assembling a generator isn’t difficult, the real value comes in the testing and validation before a product launch. We don't accept engine performance data without validating it ourselves in the environmental conditions which our products will see. When someone buys one of our products, we can safely say that wherever it will be operating, it will have been tested for that environment.” Thanks to the extensive testing, FG Wilson can provide you with a generator set that is built to stand the test of time.

While finding the ideal generator set is of utmost importance, the ability to source parts and the presence of local & effective support is pivotal. What you need are local dealers who carry parts and are trained to diagnose issues easily. In the absence of finding ideal support options, people often resort to replacing their generator parts like filters, with imitation or fake parts that are available cheaper and locally. This is done with the idea that locally sourced parts would save them some money. However, this may be a bigger problem than it is a solution.

Whatever generator set you own, it is imperative that you fit genuine filters and change the oil as specified in your operator manual. Don’t wait until you see a problem before you think about changing the filters or oil. It could be too late. With FG Wilson, the support and assistance comes from a network of dealers who support customers with everything from product selection to installation and aftermarket support through a global parts warehouse stocking

FG Wilson generators

11,500 parts and delivering up to three million parts a year.

The last cog in the machine that you must pay attention to, is the fuel itself. As a generator set owner, you must be careful to buy diesel only from reputed suppliers and make sure that the tanker which delivers your fuel is used only for the purpose of transporting diesel. You must ensure that it isn't containing diesel one day and something else the next as this could contaminate the fuel. You must also try to keep your tank filled to the top with fuel as this prevents condensation which is the number one cause of algae growth within the fuel tank.

Finally, if you don't run your generator regularly, remember that the shelf life of the diesel in the tank is limited. Typically, diesel fuel starts to deteriorate after about 100 days. The fuel begins to break down, clusters up and drops to the bottom of the tank as a dark sludge. This can block filters and injectors, reduce engine efficiency and inevitably leads to engine smoke. Over and above all of this, there are a few simple steps that you can take up, to ensure that your diesel generator set will have a long lifetime:

- Check fluid levels before the onset of cold weather
- Check the rubber components such as hoses & fan drive belts weekly
- Drain any water from the fuel system
- Once started, don't power off the engine until it has reached a minimum operating temperature of 80°C. This prevents intake valves and exhaust valves from sticking
- Check air cleaners and the air intake daily, more often in snowy conditions
- Fill the fuel tank only when the generator set is powered off
- Keep all the batteries fully charged and warm (this is especially important if the generator set is not being operated regularly)

With these few steps & the consistent and relentless support provided by FG Wilson and its impeccably skilled dealer network, your generator set is bound to go the long run. Investments such as generator sets are often not given much thought but one must realise that every small detail can play a big role in ensuring that you get the best out of your resources. IPF

For details, visit www.fgwilson.com/india

(Communication provided by the management of the company)

Intelligent drive systems from NORD

With approximately 3000 employees worldwide, NORD develops produces and a market drive technology and is one of the industry's leading international suppliers of all-in one solutions. In addition to standard drives, NORD supplies application-specific concepts and solutions, including concepts and solutions that fulfil special requirements such as energy-saving drives and explosion-proof systems. Founded in 1965, NORD presently has 36 subsidiaries worldwide.

Incorporated in 2005, NORD Drivesystems Pvt Ltd is the subsidiary of Getriebebau NORD in Germany. It has a full-fledged

assembly unit in Hinjewadi, Pune with production capacity of 30000 units per year. All the parts are imported from its manufacturing units globally.

NORD has a strong dealer network across the India & SAARC countries. It caters to almost all sectors such as material handling, steel, chemical, pharmacy, food and beverages, water treatment, pumps, cement, power, solar, airport, Intralogistics and road construction.

Product range

NORD clients have always found solutions from its standard range of products.

Gear Boxes & Gear Motors – Capacities starting from 0.12 – 1000 KW:

1. Helical Gear Units – 0.12 – 160 KW
2. 2-stage bevel gear units – 0.12 – 9.2 KW
3. Parallel shaft gear units – 0.12 – 200 KW
4. 3 stage bevel gear units – 0.12 – 200 KW
5. Nord bloc.1 gear unit – 0.12 – 37 KW
6. SI worm gear units – 0.12 – 4 KW
7. Helical worm Gear unit – 0.12 – 15 KW
8. SMI worm gear unit – 0.12 – 4 KW
9. 2 stage Nordbloc.1 bevel gear unit – 0.12 – 9.2 KW
10. Industrial Gear Unit – 2.2 – 1000 KW

Variable speed drives mechanical - capacities starting from 0.12-110kW:

- Mechanical variable speed drive - Belt type with gear unit – upto 110 kW
- Mechanical variable speed drive - Friction disc type with gear units – upto 4 kW

Variable frequency drives - capacities starting from 0.25-160kW:

- Decentralise drive solution - SK200E, SK180E, SK 135E - 0.25 to 22KW IPF

(Communication provided by the management of the company)

SunBless: A magical protective paint

Patented for its unique thermal insulation and other protective properties, SunBless promises to be extremely useful, especially in the tropical countries, in keeping the temperatures cool in hot summer and warm in winter in most.

Arhan Technologies Pvt Ltd is introducing a new nanotechnology based Magical Thermal Protective Paint for the global market with the help of Japan's Miyakawa Industries.

SunBless is an exclusive and premium quality water based acrylic thermal insulating industrial paint, which is specially engineered and manufactured to offer a very high degree of heat reflecting and insulating properties that can be extremely useful in various applications.

The eco-friendly thermal barrier Paint from Japan, that has the ability to reflect an amazingly 92.7 per cent of the Sunlight falling on it, the highest ever achieved by any available thermal barrier paint in its class, has brought in a huge revolution in the paint industry. Invented in 2016, and with commercial sales commencing in 2017, SunBless has been patented for its unique thermal insulation and other protective properties, and promises to be extremely useful, especially in the tropical countries, in keeping the temperatures cool in hot summer and warm in winter in most.

Many years of hard and dedicated work and extensive scientific research and experimentations by Japanese scientists have gone behind the development of this internationally patented paint, with a noble mission and objective to bring maximum benefits in the form of energy saving, and reduction of global warming to the society, and also making our daily life more comfortable.

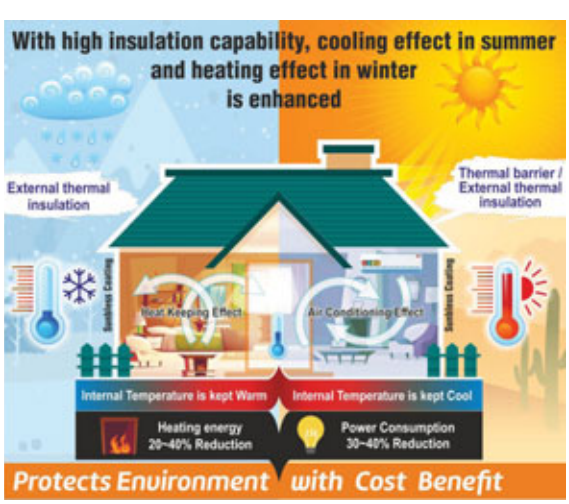
Backed with an international patent, this paint, having unmatched thermal barrier properties, can help to drastically reduce the greenhouse gas emissions for all buildings equipped with air conditioning.

SunBless has following unique properties:

- Thermal insulation: SunBless, as a paint, ensures strong durability and water resistance properties, along with the highest level of thermal insulation and reflection properties.
- Energy efficiency: SunBless paint can guarantee an energy saving of 30 to 40 per cent, by reducing the cost of electrical power needed to run heating and cooling devices in offices and residential buildings as well as in factories and warehouses. Due to the savings in Energy, SunBless promises to be eco-friendly too.
- External protection: A coating of SunBless paint provides a unique protective layer and increases the life of the equipment, and building due to the inherent elasticity of the paint, which can withstand extreme weather and hazardous climatic conditions.

Some of the salient features and merits of SunBless are:

- Highest insulation capability: 92.7 per cent Sunlight reflection ratio (Near Infrared wavelength band), and it is only paint that has shown 30°C temperature reduction and highest ambient temperature reduction.
- High elasticity: Coating film elasticity rate is 250 per cent or more. This helps in filling cracks.
- Excellent weather resistance (expected life 20 years): Tested in Japan for rigorous weather conditions of heat, cold.
- Strong adhesiveness (4 times better than JIS standards): This feature allows painting without peeling off for several years.
- Maintain the temperature inside building: The temperature is maintained like thermos effect during summer and winter, al weather conditions
- Eco-friendly and no influence on environment: This paint has obtained the highest grade Forster F**** (4 Star) Certification. This is safest for both outdoor and indoor painting. Japan has strict health and environment control norms.



Advantage SunBless

SunBless, a one-component water-based paint, offers various benefits. Since it is less volatile organic compound (VOC) than oil, it is gentle to the human body. It is

environmentally safe paint, safe for human body. Formaldehyde, an environmental pollutant chemical substance that is considered to be a factor such as sick house syndrome, has been certified as Forster (F****) standard under application for certification. It is designed as a safe paint both environmentally and human body. Because it uses tap water for diluting, the cost is low. SunBless is almost odorless after drying. It is easy to handle and very easy to paint.

SunBless is excellent in adhesive force and elasticity and is 4 times the adhesive strength of JIS standard. SunBless can effectively function widely from extreme cold regions (eg Mongolia at -30 °C) to various countries right under the equator. SunBless has a strong coating film and boasts elongation of 250 per cent.

Benefits of regular one-pack paint like SunBless are the remaining paint can be used next time; Even if paint adheres, it can be removed with thinner or water; and Compared to two-pack type paint, the price is cheaper.

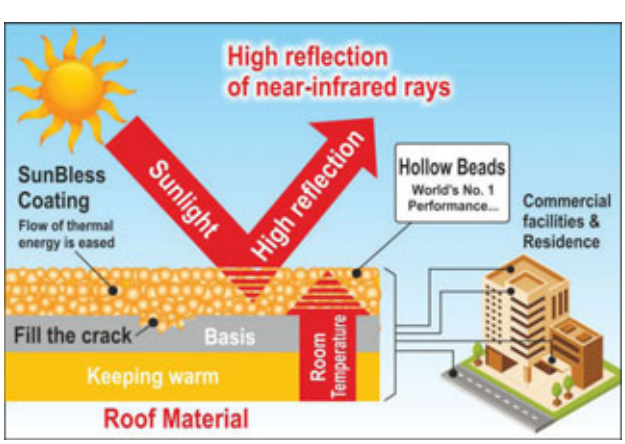
Benefits and applications of SunBless

BENEFITS

- Prevents buildings, factories from heating up
- Prevents walls, roofs and pavements from heating up
- Reduces building's internal temperatures drastically
- Drastically reduces air conditioner electricity usage and costs
- Reduces greenhouse gas emission for Air-conditioned buildings
- Provides natural, non-toxic environment for safe and human friendly life
- Inhibits rust, corrosion and thermal expansion and improves durability
- Healthy and safe environment for poultry farms, livestock sheds, vegetables cultivation/ sales shops, stockyards
- Prevents heating of vehicles in summer and reduces internal temperature. This reduces air conditioner usage and fuel costs!

APPLICATIONS

- Factories roof/ walls/ heat generating areas (near furnace)
- Commercial buildings, malls, shops
- Multiplex theaters
- Apartments, residential buildings
- College, school, office buildings
- Poultry farms, livestock sheds
- Transport vehicles, cool vans, trucks, school bus
- Milk, oil & gas, chemicals transport vehicles
- Ships, ports
- Military applications – vehicles, tanks, tents, buildings
- Food, chemical, steel, pharmaceutical industries



Conclusion

SunBless promises to be extremely useful in planning of new smart cities, for usage on all types of buildings to drastically reduce electricity costs especially during the summer seasons, when the usage of Air conditioning is normally maximum.

Scientifically carried out Tests in buildings with roof-tops coated by this paint, have shown a significant reduction of inside temperature, ranging from 6 to 10 Deg Centigrade, resulting in 30 to 60 per cent reduction in consumption of electricity for Air-Conditioning. In some Test cases the requirement of Air-conditioning itself became redundant and had to be switched off, due to the significant drop in temperature achieved, as a result of the application of the paint alone, which is considered as a monumental achievement, in terms of cost saving on Return of Investment (ROI). IPF

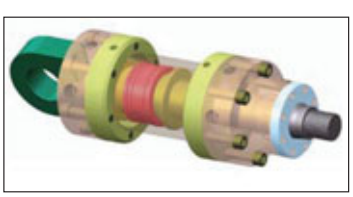
For details, contact Arhan Technologies Pvt Ltd, Pune, on Mob: 086699 81270, or email: info@arhan.co.in

(Communication provided by the management of the company)

Hydraulic equipment & projects

Oscar Equipments Pvt Ltd, an ISO 9001:2008 certified company that is a proven name in precision built hydraulic cylinders, is the brainchild of V P Jain to establish manufacturing facilities about 20 km away from Kolkatta. The company incorporates latest technological features that offer solutions for increasingly critical requirements based on customised and strategic applications of fluid power.

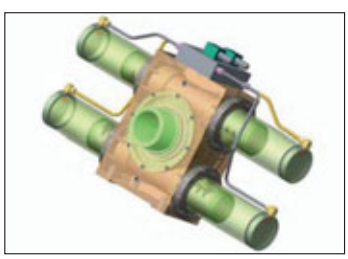
The key to Oscar capabilities is the ability to combine the state of-the-art features as per customers' specifications along with most effective solutions. This expertise is derived from more than four decades of experience available with the Oscar team in design and development of various hydraulic products and allied special type equipment for fluid power applications. Quality is the hallmark of OSCAR and Quality assurance is the top most priority. With the aid of modern equipments the company maintains rigid quality control system at every stage of production.



Customised Multi Stage Hydraulic Cylinders for Steel Mill Applications and other Heavy Industries

Oscar is equipped with complete manufacturing facilities including 'dust free' assembly shop apart from automatic honing machines, CNC turning centres, grinding machines, special type welding machines, high pressure and low pressure testing facilities along with complete engineering, research and development facilities and well experienced team for after-sales service. R&D is always given overriding priority, a concept so strong that it led to executing several contracts for the Defence R&D establishments.

R&D is always given overriding priority that led to executing a number of prestigious projects for strategic applications. A few examples include:



Hydraulic Rotary Actuators for High Torque applications

- Sarvatra Bridging System – Fabrication and supply of 3-stage pier leg assemblies including fabrication of base plate in RDE-40 aluminium alloy with synergy pulse MIG welding process for bridging system – Project Sarvatra
- Hydraulic System Bridge Layer Tank on T-72 Chassis
- Manufacturing of Pilotless Target Aircraft (PTA) launcher including complete hydraulic system and controls – Project Lakshya
- Manufacturing of Jet Deflector Carrier Equipment and installation of the same on Tatra chassis along with 30 MT crane along with complete hydraulic system
- Pick & Place PLC Type Manipulator – for shell forging unit for ministry of defence unit

Electro-Mechanical Actuators for Heavy Industrial Applications

- Electro-Mechanical Actuators for Multi-Barrel Rocket Launcher – Project Pinaka/Aakash/Prahar
- Recoil Mechanism of ATAGS – 155mm x 52 calibre gun being developed by DRDO Unit
- Critical Hydraulic Aggregates of Towed Gun System under trial

Original equipment manufacturers and their customers are demanding more efficient, lighter, smaller, safer, and smarter systems across the entire product line. In the realm of automotive, agricultural, construction, and earthmoving equipment industries.

It is an ideal partner for catering to

Hydraulic Power Packs

various requirements of hydraulic/ pneumatic cylinders and hydraulic operated equipment for any application, any type and any standard. The product range includes: single stage/multi stage hydraulic cylinders, tie rod type standard/customised hydraulic cylinders, hydraulic rotary actuators, electro-mechanical actuators and hydraulic power packs.

The company also undertakes indigenisation of imported customised special cylinders and products for steel mill applications. A few examples:

- For steel plants and heavy industrial applications – automatic

Ladle Lifting & Tilting Hydraulic Cylinder having Bore Dia 500mm with Ceramic Coated Plunger for Continuous Casting Shop

Double Acting Hydraulic cylinders fitted with Heat Resistant Bellows for walking Beam Furnace application

Single Acting Ram Type Hydraulic Cylinders

Double Acting Long Stroke Cylinder

Manufacturing of Pilotless Target Aircraft (P.T.A.) Launcher including complete Hydraulic System and Controls - Project Lakshya

gauge control (AGC) hydraulic capsule cylinders capsule cylinders having bore dia 1016 mm (40 inches) for plate mill application

- Automatic gauge control (AGC) hydraulic capsule cylinders capsule cylinders having bore dia 700 mm (28 inches) for cold rolling mill application
- Ladle lifting and tilting hydraulic cylinder having bore dia 500 mm

bore with ceramic coated plunger for continuous casting shop

- Ladle lifting and tilting hydraulic cylinder having bore dia 600 mm bore for continuous casting shop
- Hydraulic cylinders for ladle lifting

Manufacturing of Jet Deflector Carrier Equipment and installation of the same of Tatra Chassis along with 30MT Crane along with complete Hydraulic System

Sarvatra Bridging System

stand for continuous casting shop having bore dia up to 450 mm

- Development of special cylinders and products for steel plants and heavy industrial applications
- Lift and turn hydraulic cylinders for continuous casting shops having roll force cylinders for screw down mechanism of cold rolling mill having bore dia up to 480 mm
- Roll force cylinder with transducer for rolling mill application
- Telescoping hoist hydraulic cylinder having bore dia 480/420/360 mm with total stroke length 8100 mm for steel melting shop application
- Work roll balancing cylinder (top and bottom) for hot strip mill application
- Development of special cylinders and products for steel plants and heavy industrial applications, and
- Mud gun hydraulic cylinders for blast furnace applications IPF

For details, contact Oscar Equipments Pvt Ltd, West Bengal, on Tel: 033-24531059/1938, or email:marketing@oscarequipments.com

(Communication provided by the management of the company)

"Copper scores over aluminium in winding wires"

Slimlites Electricals Pvt Ltd (SEPL) is an ISO 9001: 2008 certified company specialising in various types of copper conductors and winding wires since 1998. In conversation with IPF, **Vimal Jalan**, Managing Director, Slimlites Electricals, explains the dynamics of the industry.

Wires are the core business at Slimlites Electricals. What are the different types of wires manufactured by the company?
We manufacture different types of wires such as enamelled copper wires and strips; paper insulated copper wires and strips; and fibreglass covered copper wires and strips.

Copper wires are considered best, but the quality of copper is often an issue. What are the standards followed here for quality control?
The company strictly follows a policy of buying materials from reputed companies like Hindalco, Vedanta, and other reputed international organisations. We at SEPL have internal testing facilities where all the inputs are tested, like for example, the copper is tested for conductivity, purity, resistance, etc. As a policy only after proper confirmation is received from the QC is the material issued for production.

There is a growing demand for energy efficiency in products and appliances. These are also shedding weight and becoming slimmer. What role winding wires perform here?
That is true. Today all products are designed to be compact and energy efficient saving space and power, and those appliances using electric motors are getting slimmer thus in reducing weight. The role of the winding wire is very important here as it is imperative to achieve the required result, and the copper wire has to be compatible, to do that without compromising on the quality and efficiency of the final product. This can be achieved in copper winding wires only by producing winding wire with higher temperature resistant enamel (to take care of the higher internal temperature generated due to higher processing speed and compact design). At SEPL we have successfully achieved this by reducing our customer rejection to less than 0.1 per cent.

There is growing usage of aluminium wires. How do these compare with copper wires?
Though aluminium wire is increasingly replacing copper wire in many industries but due to inherent advantages of better durability, strength and most importantly, 3 times better conductivity, copper scores over aluminium and thus restricts its usage only in certain products and applications.

What kinds of R&D activities are undertaken at SEPL?
We at SEPL frequently arrange lectures/sessions from experts of industry to educate our technical staff and operators and as a result enhance our product quality as part of the consistent endeavour to excel and be open to new challenges. There is always a process of consultation with the OEM customers to understand their exact requirements, and they in turn always give preference to us whenever they require certain special grades of wires.

How organised is this industry?
Historically, the copper winding wire industry has been dominated by the unorganised sector and issues related to quality and standards, but due to progressive government policies related to energy efficiency and measures taken by various associations, the role of unorganised sector is now reduced to a third of the industry, but we still do face various kinds of challenges. There are ongoing efforts to address these issues jointly as well as individually.

How large is the Indian market for copper wires? What is the SEPL share?
The size of the enamelled wire industry in India is 225,000 metric tonnes per annum out of which SEPL's share is only 2 per cent which we are committed to scale it up to 4 per cent in next 3 years. During the next 2 years, we also have plans to increase our capacity by more than 33 per cent. We export our products to several countries across the globe.

Is there a problem of cheap imports plaguing this segment of the industry?
A lot of material is coming from ASEAN and SAARC countries due to import duty concessions, since there is a treaty signed with these countries. As per data available this is now more than 15 per cent of total copper consumption. IPF

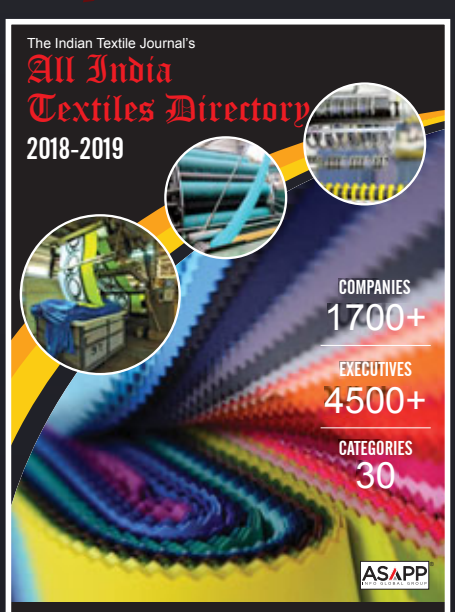
(Communication provided by the management of the company)

All India Textiles Directory

2018-2019

All India Textiles Directory was unveiled by Ajit Chavan, Secretary, Textile Committee, Ministry of Textiles.

MOST Comprehensive directory of Textiles industry in INDIA.



About All India Textiles Directory

The Indian Textile Journal is dedicated to create best-in class information products for industry professionals. In its endeavor to provide vital information to the industry, The Indian Textile Journal presents the l0TH edition of All India Textiles Directory.

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Monotech Engineers offers quality products at competitive prices

Monotech Engineers Pvt Ltd is a N S Energy Group flagship company engaged in design, engineering, manufacturing and export of industrial equipment. The company is promoted by technocrats, experienced & supported by technocrats & professionals with good & prudent exposure in the field.

Successfully present in 23 countries across the globe with a pride of repeat orders. Product range includes:

1. Material handling equipment, ie conveyors & conveying equipment
2. EOT cranes/HOT/Goliath/Gantry/ JIB cranes - All electrical of cranes, modification of cranes, automation of cranes/electro permanent magnetic lifters
3. Guillotine shearing machines
4. Mechanical press brakes & hydraulic press brakes
5. Plate rolling machines with complete automation
6. Hydro mechanical machine
7. Power press (mechanical/ hydraulic)
8. EPC of complete projects
9. Pre-engineered buildings/low cost housing
10. Standard & customised 20 ft/40 ft containers
11. Bunk houses with solar attachments
12. Genset containers
13. Acoustics treatments/acoustics enclosures

Moreover, the company also consistently works towards bringing further improvements in its products with the help of its intensive research and development activities. It assists the company in bringing necessary up gradation in Monotech products per changing demands of the industry globally.

The factors for which Monotech remains ahead of its competitors are:

- Well developed infrastructure
- Quality products,
- Timely delivery, and
- Competitive prices

Quality assurance

The company has with it services of experienced quality checking experts ISO 9001:2015 certified company ensuring production of high quality range. From the procurement of raw material till the final production stage, Monotech follows stringent quality control measures that also assist it in delivering flawless outputs. The company uses superior grade raw materials in its production processes that ensure optimum durability and performance standards at users end. IPF

(Communication provided by the management of the company)

Sudhir Automotive: A pioneer in stainless steel fasteners

Sudhir Automotive Industries Pvt Ltd (SAI) - a pioneer in stainless steel fasteners and manufacturer of cold forged/ turned components – has been serving its customers since last 25 years. Its remarkable journey to the forefront of fasteners business is achieved out of a vision to be rated alongside in the best in the India. SAI is expanding its vision to conquer new horizon. We at SAI strive to be distinct in our efforts to provide complete solution for stainless steel fasteners that are innovative and best. We cater to both national as well as international market and contribute to India's vision of Make in India. We has a

remarkable presence among in Indian OEM sector catering to automotive, railways, telecom, power, etc.

Under the leadership of Sudhir Jain (MD) and his proactive approach, SAI is equipped with state-of-the-art manufacturing facility with installed capacity of 500 MT per month in Rohtak, Haryana.

SAI, a global supplier, is a single window supplier for stainless steel fasteners & other parts through in-house manufacturing & outsource team. The company uses genuine raw material directly taken from mill with test reports. The company ensures continuous improvement in manufacturing and testing. SAI, which has implemented ERP in all operations, has adopted lean manufacturing practices. IPF

For details, contact Sudhir Jain (MD, SAI) on Mob: +91 9812034145, email: ss316@saifasteners.com, or visit www.saifasteners.co.in

(Communication provided by the management of the company)

Event	Date & Venue	Contact
WORLDBUILD INDIA	April 25-27, 2019, Bombay Exhibition Center, Mumbai	Asian Business Exhibitions & Conferences Ltd, Mumbai. Tel: 022-42863900 Email: info@abec.asia
SECUTECH INDIA 2019	April 25-27, 2019 Bombay Exhibition Centre, Mumbai	Asian Business Exhibition & Conferences Private Limited, Mumbai Tel: 022-66814700, 66814900, 66814800.
N PRINTECH TODAY 2019	May 25- 26, May 2019 Chennai Trade Center, Chennai	Buysell Interactions Pvt Ltd Show Project Manager(s): Mr. Ravi Mobile: 09884080079 Tel: 044-28353739, 42177899
INTEC 2019	June 6-10, 2019, Codissia Trade Fair Complex, Coimbatore	Codissia Trade Fair Complex, Coimbatore. Tel: 0422-2593505/507 Email: info@cointec.in
IMTOS-INDIA MACHINE TOOLS SHOW 2019	June 14-17, 2019, Pragati Maidan, New Delhi	K And D Communications Limited, Ahmedabad. Mobile: 09909041613, 09909041618 Email: info@kdclglobal.com, admin@imtos.com
INDEXPO NASHIK 2019	June 07-09, 2019, Thakker's Dome, ABB Circle, Nashik	Indore Infoline Pvt Ltd, Show Project Manager(s): Mr. R. K. Agrawal 09425054216 Tel: 0731-2703000/4093000
MACHINE TOOL EXPO NEW DELHI 2019	July 04-07, 2019, Pragati Maidan, New Delhi	Indian Machine Tool Manufacturers' Association, Bengaluru Show Project Manager(s): Mr. Manoj Tel: 080-66246600, 66246902, 66246901
PACKPLUS NEW DELHI 2019	August 28-31, 2019 Pragati Maidan, New Delhi	Next Events (P) Ltd Show Project Manager(s): Ms. Neetu Arora Mobile: 09820169889 Tel: 022-27812093/27812619/27812657
INDEXPO HYDERABAD 2019	September 06-08, 2019 Hitex Exhibition Center (AC Hall) Hyderabad	Indore Infoline Pvt. Ltd. Show Project Manager(s): Mr. R K Agrawal Mobile: 09425054216
UMEX - USED MACHINERY EXPO 2019	September 20-22, 2019, Bombay Exhibition Center, Mumbai	International Trade and Exhibitions India Pvt Ltd, New Delhi Tel: 011- 66295700 Email: info@itei.in
AUTOMATION EXPO 2019 - 14TH INTERNATIONAL EXHIBITION & CONFERENCE	September 25-28, 2019 – Hall Nos.1 & 2 Bombay Convention & Exhibition Center Goregaon East, Mumbai	IED Communications Ltd., Mumbai Tel: 022-22073370, 22079567 Email: arokiaswamy@iedcommunications.com
IFAT INDIA 2019	October 16-18, 2019, Bombay Exhibition Center Hall - 05, Mumbai	MMI India Pvt Ltd Show Project Manager(s): Mr. Violet Rodrigues Tel: 022-42554732, 425547726, 42554700
CABLE & WIRE FAIR 2019	November 06-08, 2019, Pragati Maidan, New Delhi	Tulip 3P Media Pvt Ltd, Delhi Tel: 011-45678421/4567842/45678423
INDEXPO AURANGABAD 2019	November 18-20, 2019 Ayodhya Nagari Defence Ground, Near Railway Station Aurangabad	Indore Infoline Pvt. Ltd. Show Project Manager(s): Mr. R K Agrawal Mobile: 09425054216
INDIA COLD CHAIN SHOW 2019	December 04-06, 2019 Bombay Exhibition Center, Mumbai	Reed Manch Exhibitions Pvt Ltd Show Project Manager(s): Mr. Bharani Prasad ' Mobile: 09871628542 Tel: 011-41841146/65650255

Event	Date & Venue	Contact
ENGIMACH 2019	December 04-08, 2019 The Exhibition Center, Gandhinagar	K And D Communications Limited, Ahmedabad. Show Project Manager(s): Mr. Rajesh Parmar, Mobile: 09879566567 Email: info@kdclglobal.com
ZAK DOORS & WINDOWS EXPO 2019	December 12-14, 2019 Pragati Maidan, New Delhi	Zak Trade Fairs & Exhibitions Pvt Ltd, New Delhi Show Project Manager(s): Mr Amrendra Kumar Tel: 011-42576202/42576206/04/05
ARE - ASIA RUBBER EXPO 2020	December 04-06, 2019 Bombay Exhibition Center, Mumbai	Reed Manch Exhibitions Pvt Ltd Show Project Manager(s): Mr. Bharani Prasad ' Mobile: 09871628542 Tel: 011-41841146/65650255
WELD INDIA 2020, & YPIC 2020 (13TH WELDING TECHNOLOGY EXHIBITION)	Feb 07-09, 2020 CIDCO Exhibition Centre, New Mumbai	The Indian Institute of Training, Mumbai Tel: 022-25772637, 25794252 Email: iiwmum01@gmail.com
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FABEX MIDDLE EAST 2019	March 14-16, 2019, Cairo International Convention Centre Cairo, Egypt	Arabian German Exhibitions & Publishing Ltd, Show Project Manager(s): Mrs. Fatma Aly (+201066673344), Tel: 20-2-22629682/22632460/22703584/5
CERAMICS CHINA 2019	June 18-21, 2019 Area A, Canton Fair Complex, Guangzhou, China	Unifair Exhibition Service Co. Ltd International Marketing Tel: 86-020-83276369 ext. 822 Email: echo.lu@unifair.com
FASTENER EXPO SHANGHAI 2019	June 26-28, 2019, National Exhibition Convention Center Shanghai, China	Shanghai Ebseek Exhibition Co Ltd, Shanghai 201216 (China) Tel: 86-21-61806789
AMTS - SHANGHAI INTERNATIONAL AUTOMOTIVE MANUFACTURING TECHNOLOGY & MATERIALS SHOW 2019	July 03-06 2019, Shanghai New International Expo Center, Shanghai, China	Shanghai Forever Exhibition Co. Limited Show Project Manager(s): Ms. Berry Yang, Shanghai – (China) Tel: 86-21-64681300
ALUMINIUM CHINA 2019	July 10-12, 2019, Shanghai New International Expo Centre (SNIEC), Shanghai, China	Reed Exhibitions (China) Limited Ms. Diana Wang, China Tel: +86 10 5933 9179
MATERIALS HANDLING MIDDLE EAST 2019	September 03-05, 2019 Dubai International Convention and Exhibition Centre, Dubai	Epoc Messe Frankfurt GmbH Show Project Manager(s): Ms. Monica Kubik Te: 971-4-3894500/3385272/3380102
CIIF - CHINA INTERNATIONAL INDUSTRY FAIR 2019	September 17- 21, 2019 National Exhibition and Convention Center (Shanghai), Shanghai, China	Shanghai Industry & Commerce Exhibition Co Ltd Show Project Manager(s): Ms. Flora Hu Tel: 86-21-22068388, 22068335, 63539977, 22068386
CHINAADHESIVE - CHINA INTERNATIONAL ADHESIVES AND SEALANTS EXHIBITION 2019	September 18- 19, 2019 Shanghai World Expo Exhibition & Convention Center, Shanghai, China	Serena Cui CCPIT Sub-Council of Chemical Industry, China Tel: 86 10-64275419, 84240485, Fax: 86 10-64205891 Email: cuijingjing@ccpitchem.org.cn , zhangpei@ccpitchem.org.cn
PTC ASIA - POWER TRANSMISSION AND CONTROL 2019	October 23- 26 October 2019 Shanghai New International Expo Center Shanghai, China	Hannover Fairs China Ltd., Shanghai – 201204 (China) Show Project Manager(s): Ms. Zhao Jun Ni Tel: 86-21-50456700-331/259/203/207

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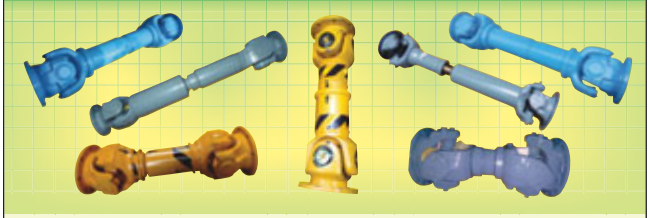

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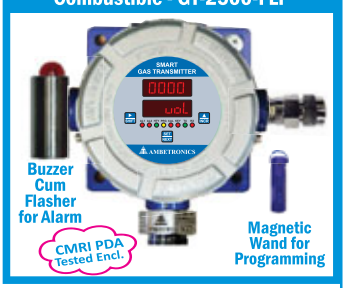

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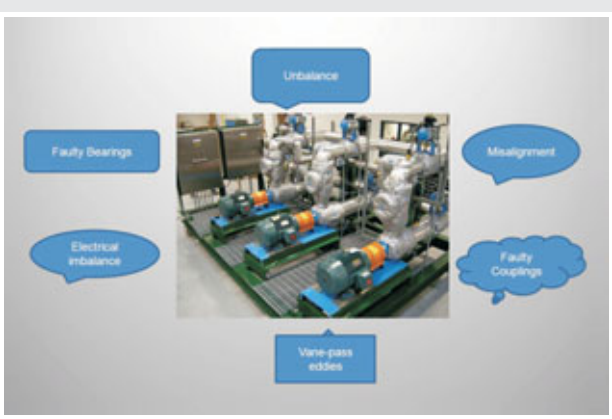

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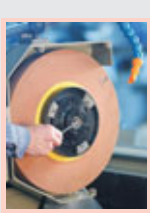

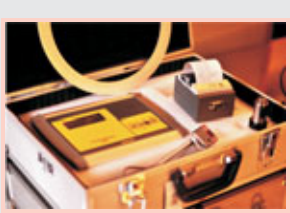

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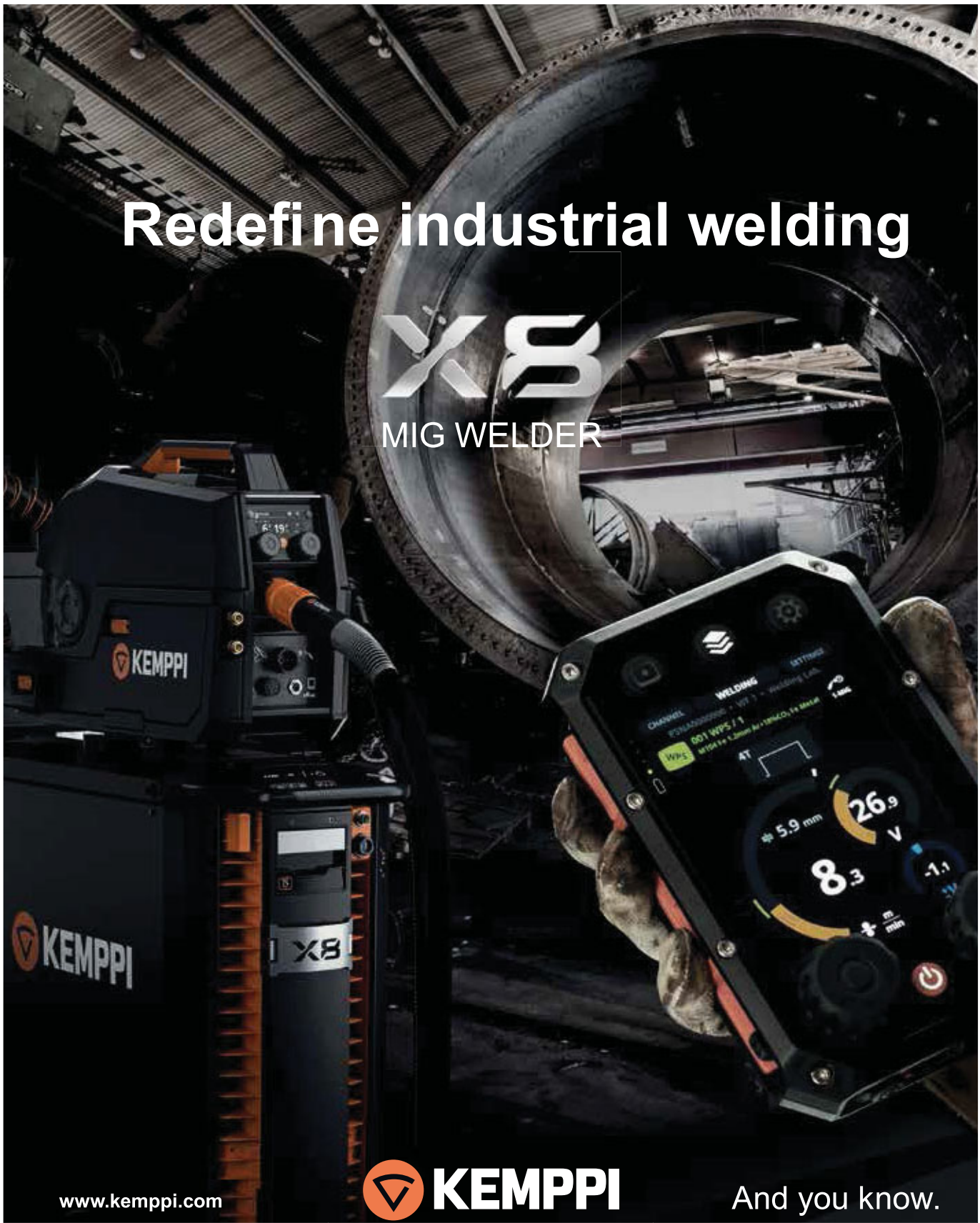

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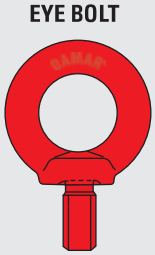

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