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SUBSCRIPTIONThe Mega Issue features over **320+ PRODUCTS**...Pg No. 34-210**COVER STORY:** Transforming Manufacturing with Green Engineering...Pg No. 211-239**INTERVIEWS:** Experts discuss ways to make India a vibrant global manufacturing hub... Pg No. 240-273

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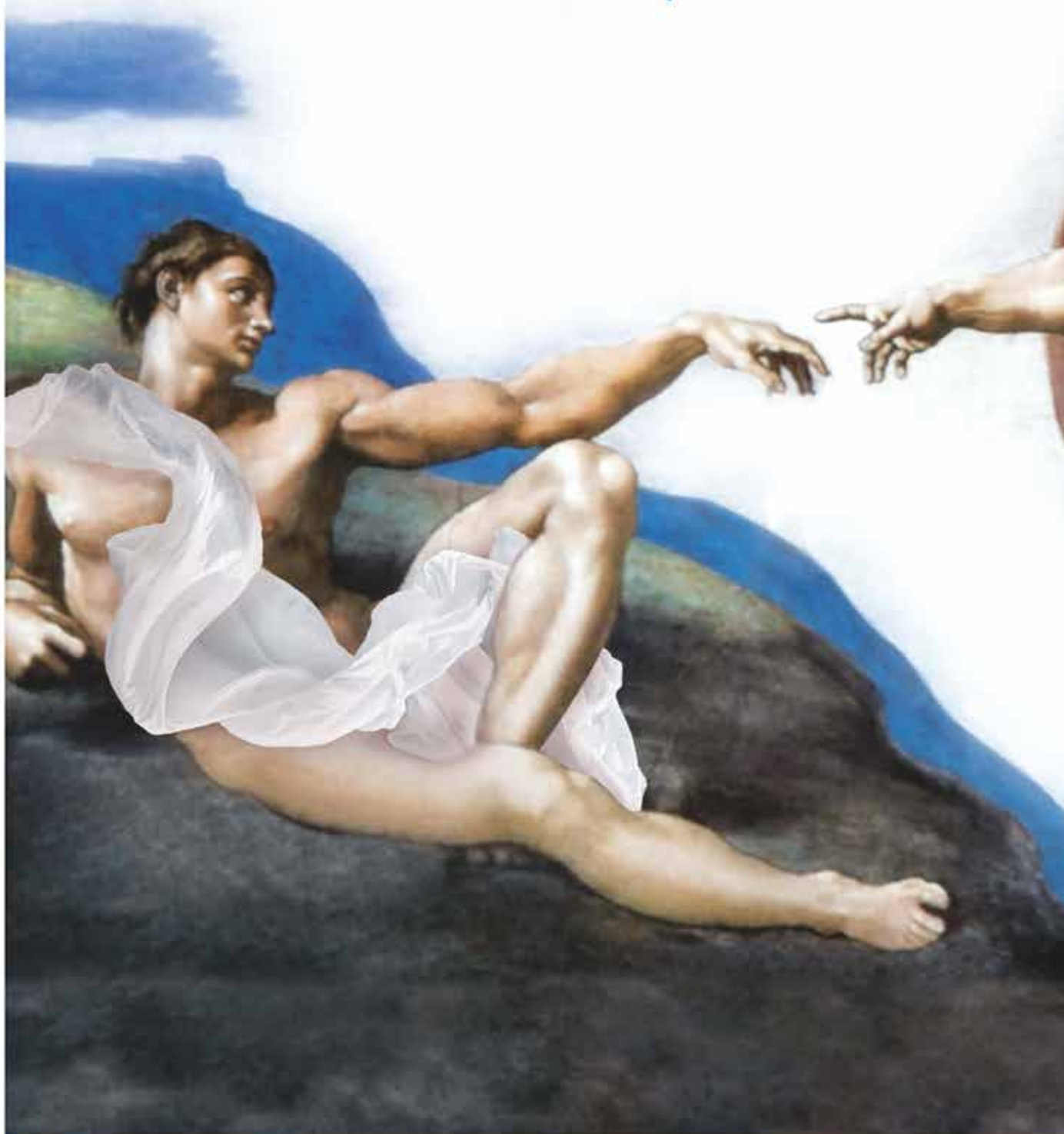
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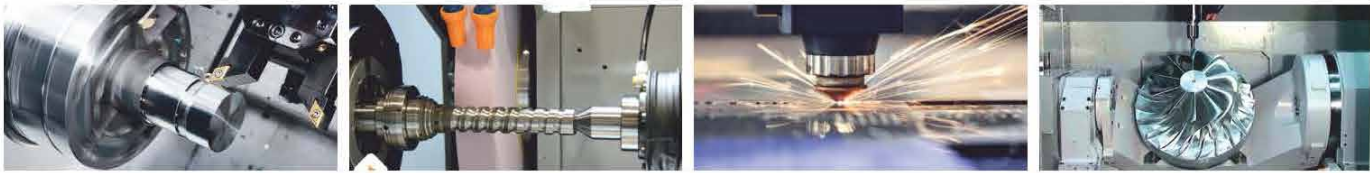
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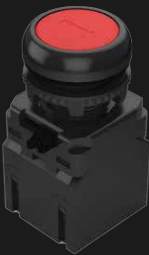
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## The green path to \$ 10 trillion economy

In 2023, green manufacturing startups were able to attract more than \$10 billion investment globally (with sectors like batteries, transportation, building and materials, and metal emerging as the most popular choices for investors), according to a Crunchbase report.

Many manufacturing industries, in general, are blamed for emitting copious quantities of carbon dioxide (CO<sub>2</sub>) during their production processes. Being energy-intensive by nature, the sector accounts nearly 40 per cent of India's total energy consumption and is one of the major sources of greenhouse gas emissions. Having said that, manufacturing needs to contribute more to the growth trajectory for India to achieve its aspirations of becoming a \$10 trillion economy. With calls for reducing carbon footprint getting stronger across the world, the manufacturing sector's role becomes crucial for India to achieve its sustainability goals.

The Central Pollution Control Board (CPCB) has identified 17 types of industries that contribute to pollution, with seven industries - including iron and steel, paper, copper and aluminium - have been recognised as major sources of pollutants (such as sulfur oxides and carbon dioxide emissions). There are various solutions to mitigate emissions. For example, carbon-capturing devices can be installed in diesel generators to effectively capture and reduce pollutant emissions. Similarly, adoption of renewable energy or electric vehicles can help in reducing carbon footprint. Industry 4.0 innovations (including automation and digitization) also promise cleaner, greener, and smarter production systems.

However, there are challenges hindering the widespread adoption of green solutions. Some of them are inadequate domestic supply, heavy dependence on imported materials, lack of mature supply chain, skilled workforce, high implementation costs, etc. Like in case of renewable energy, based on conservative estimates, more than 50 per cent of the project costs for each megawatt of solar PV power plant installation in India lead to the outflow of foreign exchange.

To overcoming these implementation challenges, joint efforts - from companies, policymakers, and technology innovators - are needed. Considering the fragmented nature of the Indian manufacturing ecosystem (where small and medium enterprises have a major presence), green technologies also need to be cost-efficient for their wider adoption.

At a time when experts are calling for transition to low carbon economy, the interim budget 2024 has laid thrust on sustainable growth with schemes for bio-manufacturing, bio-foundry, financial support for offshore wind projects, biomass machineries, expanding e-vehicle ecosystem, etc.

With India aiming to export goods worth \$ 1 trillion by 2030, the manufacturing sector has to pull up its socks and work hard to gain competitive edge globally. As businesses recognise the importance of environment responsibility, one can anticipate a continued momentum towards sustainability in the Indian manufacturing sector in the coming years.

In this 52<sup>nd</sup> Annual Edition of IPF, industry leaders present their carbon-neutral strategies (spanning from R&D to manufacturing to supply chain & logistics) for developing India into a vibrant manufacturing hub of the world.

Happy reading!

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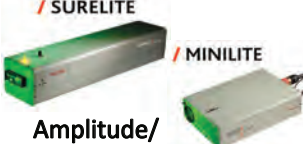
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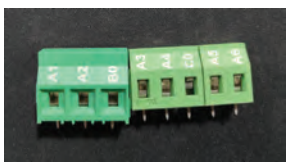


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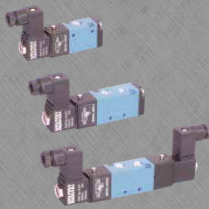
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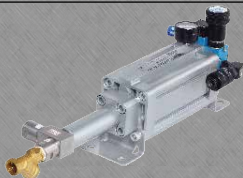
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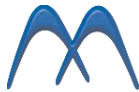
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| Sealing level         |  IP67<br>IP69 |                                                                                     |                                                                                        |                                                                                     |                                                                                        |  IP67<br>IP69    |                                                                                          |  IP67<br>IP69 |  IP65<br>IP67    |
| Double break          |               |                                                                                     |                                                                                        |                                                                                     |                                                                                        |  Za <sup>+</sup> |                                                                                          |                                                                                                  |  Zb <sup>+</sup> |
| Max. temperature (°C) | +90                                                                                            | +140                                                                                | +150                                                                                   | +150                                                                                | +125                                                                                   | +150                                                                                              | +200                                                                                     | +105                                                                                             | +85                                                                                                 |
| Min. temperature (°C) | -40                                                                                            | -55                                                                                 | -55                                                                                    | -40                                                                                 | -40                                                                                    | -40                                                                                               | -60                                                                                      | -40                                                                                              | -50                                                                                                 |
| Specific environment  |                                                                                                |                                                                                     |  ** |                                                                                     |                                                                                        |  **            |  ** |                                                                                                  |                                                                                                     |
| Approvals             | NF/ENEC/CE                                                                                     | CE                                                                                  | CE                                                                                     | CE                                                                                  |  CE |  CE            | CE                                                                                       |  CE         | CE                                                                                                  |
|                       | UL                                                                                             |  |     |  |     |                |       |             |                |
|                       | CCC                                                                                            |  | **                                                                                     |  |     |                |       |             |                |
|                       | EAC                                                                                            |  |     |  |     |                |       |             |                |

\* Za: NO and NC circuits must be used at same polarity.

Zb: NO and NC circuits are electrically separated, and can be used at opposite polarities.

\*\* Consult us

### NUCLEAR



### RAILWAYS



### ELECTRICAL EQUIPMENT



### TRANSPORTATION





## LIMIT SWITCHES

|                        | STANDARD                                                                          |                                                                                     | HARSH ENVIRONMENT                                                                      |                                                                                                                                                                                                                                                             |                                                                                     |
|------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                        |  |                                                                                     |       |                                                                                                                                                                                                                                                             |                                                                                     |
| SERIES                 | 8387<br>8388                                                                      | 83689                                                                               | 83777<br>83778                                                                         | 8399Nuc                                                                                                                                                                                                                                                     | 8398Ex                                                                              |
| Max Rating<br>@ 250 V~ | 10 A                                                                              | 8 A                                                                                 | 4A                                                                                     | 1 A                                                                                                                                                                                                                                                         | 1 A                                                                                 |
| Sealing level          | IP66<br>IP67<br>IP69                                                              | IP66<br>IP67<br>IP69                                                                | IP66<br>IP68(4m)<br>IP69                                                               | IP66<br>IP68(18m)<br>IP69                                                                                                                                                                                                                                   | IP66<br>IP67<br>IP69                                                                |
| Max. temperature (°C)  | +70                                                                               | +85                                                                                 | +125                                                                                   | +200                                                                                                                                                                                                                                                        | +200                                                                                |
| Min. temperature (°C)  | -40                                                                               | -40                                                                                 | -55                                                                                    | -55                                                                                                                                                                                                                                                         | -40                                                                                 |
| Specific environment   |                                                                                   |                                                                                     |  ** |    |  |
| Approvals              | CE                                                                                | CE                                                                                  | CE                                                                                     | CE                                                                                                                                                                                                                                                          | CE                                                                                  |
|                        | UL                                                                                |  |                                                                                        |                                                                                                                                                                                                                                                             |                                                                                     |
|                        | CCC                                                                               |  |     | **                                                                                                                                                                                                                                                          |  |
|                        | EAC                                                                               | ERC                                                                                 | ERC                                                                                    | ERC                                                                                                                                                                                                                                                         |                                                                                     |



Irradiated Environment



High pressure up to 6 bar



Explosive atmospheres

## CUSTOMIZED SOLUTIONS

- › Dedicated application
- › Customer specific product
- › Innovation & Industrialization



## MANUALLY OPERATED SWITCHES

- › Pushbuttons, Momentary and/or Maintained, up to 4 poles
- › Toggles, Maintained and/or Momentary, up to 4 poles
- › Multiway, Momentary
- › Rockers, Momentary and Maintained
- › Triggers, Momentary



## SENSORS AEROSPACE

|                            | LIMIT SWITCH                                                                                                                    | PROXIMITY SWITCH                                                                                                              | PROXIMITY SENSOR                                                                                                            |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                            |                                               |                                            |                                          |
| Key features               | <ul style="list-style-type: none"> <li>› Hermetically sealed</li> <li>› Customizable</li> <li>› Multi-pole functions</li> </ul> | <ul style="list-style-type: none"> <li>› Contactless detection with integrated electronics</li> <li>› Customizable</li> </ul> | <ul style="list-style-type: none"> <li>› Contactless detection with external electronics</li> <li>› Customizable</li> </ul> |
| Operating force (N)        | 2.5 → 50                                                                                                                        | NA                                                                                                                            | NA                                                                                                                          |
| Mechanical life (cycles)   | 100 000                                                                                                                         | NA                                                                                                                            | NA                                                                                                                          |
| Water proofness            | Watertight or hermetic version - DO 160 sect10                                                                                  |                                                                                                                               |                                                                                                                             |
| Weight (g)                 | 15 → 300                                                                                                                        | < 60                                                                                                                          | < 50                                                                                                                        |
| Operating temperature (°C) | -55 → +250                                                                                                                      | -55 → +125                                                                                                                    | -55 → +125                                                                                                                  |

## MOTION MOTORS

|                      | INDUSTRIAL BRUSH |                         |                         | DCmind BRUSH            |                         | DCmind BRUSHLESS         |                        | SYNCHRONOUS            |                                        | STEPPER                                |
|----------------------|------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|------------------------|------------------------|----------------------------------------|----------------------------------------|
|                      |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| CHARACTERISTICS      | SERIES           | 82840<br>82800          | 82830<br>82800          | 88800<br>10 50          | 88830<br>85000          | 80140<br>100 100         | 80350<br>60 70         | 82510<br>20 30 40      | 82330<br>82340                         | 82910<br>20 30 40                      |
| Nominal power (W)    |                  | 0.9 / 3                 | 9 → 33                  | 27 → 95                 | 15 → 35                 | 54 → 104                 | 66 → 150               | 310 → 600              | 0.3 → 3                                | 0.2 / 0.4                              |
| Voltage              |                  | 12 → 24 V <sub>DC</sub> | 12 → 48 V <sub>DC</sub> | 12 → 48 V <sub>DC</sub> | 12 → 48 V <sub>DC</sub> | 12 → 120 V <sub>DC</sub> | 9 → 75 V <sub>DC</sub> | 9 → 75 V <sub>DC</sub> | 24 → 240 V <sub>AC</sub><br>50 → 60 Hz | 24 → 240 V <sub>AC</sub><br>50 → 60 Hz |
| Front side (mm)      |                  | Ø 32                    | Ø 42                    | Ø 63                    | Ø 42                    | Ø 63                     | 50/57                  | 50/75                  | Ø 35 / 51<br>Ø 57 / 65                 | Ø 47                                   |
| Nominal speed (rpm)  |                  | 3700                    | 3000                    | 3000                    | 3000                    | 3000                     | 3000                   | 3000                   | 250 → 600                              | 600 → 720                              |
| Nominal torque (mNm) |                  | 2.2 / 7.7               | 41 → 100                | 170 / 270               | 50 → 110                | 180 / 290                | 125 → 550              | 830 → 1900             | 10 → 110                               | 2.5 → 8                                |
| Noise level (dBA)    |                  | 55                      | 55                      | 55                      | 35                      | 35                       | 45                     | 50                     | 30                                     | 45                                     |
| Service life (hrs)   |                  | 20000                   | 30000                   | 50000                   | 40000                   | 50000                    | 200000                 | 200000                 | 200000                                 | 10 M on / off                          |
| Certification        |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| Gear boxes           |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| Connection           |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| Standard             |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| Options              |                  |                         |                         |                         |                         |                          |                        |                        |                                        |                                        |
| IP                   |                  | IP20                    |                         |                         | IP65*                   |                          | IP54                   | IP65*, IP67*<br>IP69*  | IP40                                   | IP30                                   |

\* Except front face & shaft



RAILWAYS



ACCESS CONTROL



EQUIPMENT



MEDICAL





## CONTROL ELECTRONICS

|                     | INTEGRATED                                                                        |                                                                                   |                                                                                   | EXTERNAL                                                                           |                                                                                     |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                     |  |  |  |  |  |
| SERIES              | TNi21                                                                             | SMi21                                                                             | SMi22                                                                             | BDE 30                                                                             | BDE 40                                                                              |
| CHARACTERISTICS     |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Compatible models   | SQ57                                                                              |                                                                                   | SQ75                                                                              | SQ57                                                                               |                                                                                     |
| Speed-torque        | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   |
| Position (P/R)      |                                                                                   | 4096                                                                              | 4096                                                                              |                                                                                    |                                                                                     |
| Programming         |                                                                                   | DCmind Soft & DCmind Soft + CANopen                                               | DCmind Soft + CANopen                                                             | PWM or 0 → 10 V <sub>cc</sub>                                                      |                                                                                     |
| Communication bus   |                                                                                   | Optional<br><b>CANopen</b>                                                        | Standard<br><b>CANopen</b>                                                        |                                                                                    |                                                                                     |
| Voltage             | 10 → 36 V <sub>cc</sub>                                                           | 9 → 75 V <sub>cc</sub>                                                            | 9 → 75 V <sub>cc</sub>                                                            | 18 → 36 V <sub>cc</sub>                                                            | 10 → 36 V <sub>cc</sub>                                                             |
| Maximum current (A) | 17                                                                                | 17                                                                                | 75                                                                                | 10                                                                                 | 14                                                                                  |
| Adaptations         | Programs: Custom firmware as per customer specifications                          |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

## GEARBOXES

|                    | PARALLEL SHAFTS                                                                     | PLANETARY                                                                           | WORM                                                                                  |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |
| CHARACTERISTICS    | 11 models                                                                           | 7 models                                                                            | 2 models                                                                              |
| Torque (N.m)       | 0.5 → 6                                                                             | 0.8 → 120                                                                           | 10 → 20                                                                               |
| Power (W)          | 0.2 → 50                                                                            | 8 → 600                                                                             | 25 → 600                                                                              |
| Service life (Mr*) | 1 → 10                                                                              | 50                                                                                  | 50                                                                                    |
| Ratios             | 4 → 1036800                                                                         | 4 → 308                                                                             | 5 → 100                                                                               |
| Options            | Stainless steel shafts, pulleys, pinions, special bearings, etc...                  |                                                                                     |                                                                                       |

\* Million revolutions

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The strategic establishment of this advanced facility marks Crouzet's commitment to meet the on growing demands of India's thriving space, railway, aerospace, and defence Sector. This pioneering move signifies a determination towards enhancing local innovation and production capacity while aligning seamlessly with the 'Make in India' initiative.

Mr. David Arragon, CEO of Crouzet Group, remarked, "The inauguration of this state-of-the-art production plant marks a significant moment in Crouzet's history. We are thrilled to bring our expertise and advanced technology to India, empowering local capabilities and reinforcing our dedication to innovation and excellence."

This plant is specifically designed to produce hermetically sealed relays which are called as STPI relays in market, a groundbreaking venture for Crouzet within the Indian market. This move aims to contribute significantly to the country's technological advancement and economy.

The inauguration ceremony witnessed a gathering of esteemed dignitaries and customer from HAL, NAL, ISRO, DRDO, Keltronics, Schneider, other industry leaders and key stake holders.

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Mr. David Arragon, Crouzet Group CEO, Inaugurating the manufacturing unit and lighting the lamp.







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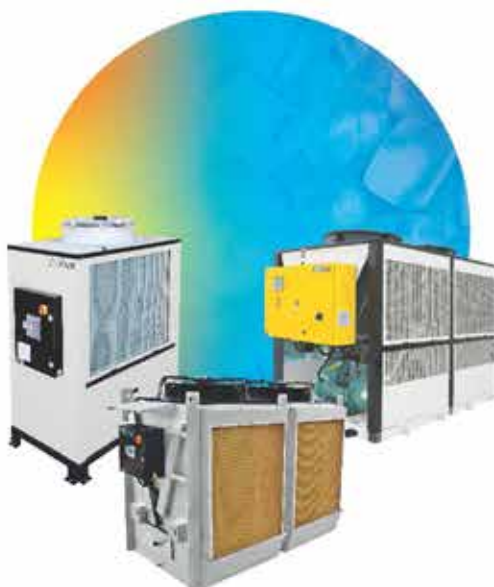
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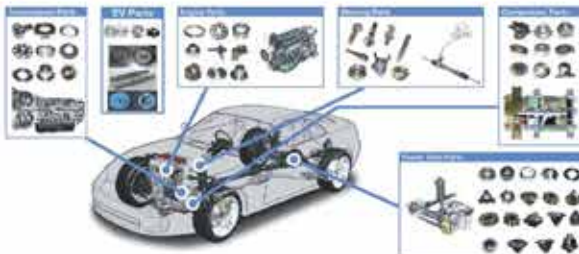
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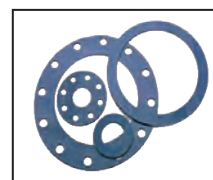
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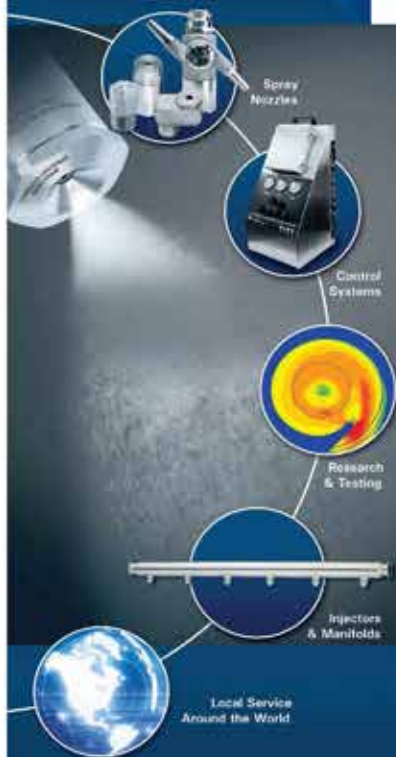
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**MANUFACTURING RANGE IN ELECTRIC, GAS & FUEL FIRED DESIGNS**

- Chamber Type Furnaces
- Forced Air-Circulation Furnaces
- Pit Pot Type Annealing Furnaces for Wires & Strips
- Bogie Hearth Furnaces
- Forging/Normalising/Hardening/Tempering Furnaces
- Gas Carburising/Nitriding Furnaces
- Bell Type Furnaces for Bright Annealing & Heat Treatment
- Conveyorised Furnaces for Hardening and Tempering Plants
- Rotary & Moving Hearth Kilns
- Batch/Continuous Annealing Furnaces
- Furnaces with Hydrogen Atmosphere
- Furnaces for Gas Generators and Ammonia Crackers
- Aging, Homogenising Furnaces for Aluminium Plants
- Special Purpose Furnaces for Chemical Plants
- Continuous Furnace for Sintering & Brazing



80 Ton Bell Type Bright Annealing Furnace

## IMPORT SUBSTITUTES



D-Type Muffles for BA Lines for SS



Muffle for BA Line for SS Line



Corrugated Inner Covers for Bell Furnaces



**Various Types of Impellers**



**Manufacturing and Dispatch Facility**



**Machining Facility upto 3.6 meter dia**



**60 Ton Capacity Dual Fuel Fired Sheet Annealing Furnace**



**Batch Type Muffle Furnace with Protective Atmosphere**



**Indirect Fired Continuous Conveyorised Ovens**





**Gas Fired Rectangular Bell Furnaces**



**Quenching Furnace For Manganese Steels**



**Refiner Furnace**



**Continuous Quenching Tempering & Cooling Line**



**Inner Cover / Retort of 4800 mm ID x 7000 mm Height**





Conveyorised Heating Furnace

### ENERGY SAVING DEVICES

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.

We offer special purpose Sink Roll and Stabilizer Roll Arms, Bush Housings for Rolls Snouts etc. fabricated from AISI 316 L Grade Plates as per customer requirement and specifications.

We also offer Special Purpose, Tailor made Furnaces and Heating Equipments as per Customer's specific requirements of Temperature, Process and Handling Arrangements other than our standard range of Products.



20 Ton/batch capacity Oil Fired Chamber Furnace for Forging with  $\pm 3$  degree C Temperature Control.



Continuous Hardening Quenching & Tempering Line for CO<sub>2</sub> Cylinders with Oil Fired Furnaces.



SS 316 L Grade Fabricated Sink Roll and Stabilizer Roll Arms and Bush Housings for Rolls of Galvanising Line.



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.

Mobile: 098108-96055 / 098100-53690

E-mail: [wellmake2007@gmail.com](mailto:wellmake2007@gmail.com) | Web: [www.wellmake.in](http://www.wellmake.in)



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### SPECIALITY ADHESIVES & EMULSIONS

Sonal Adhesives Limited offers a wide range of speciality adhesives & emulsions.

#### Features:

- It have been producing speciality adhesives and emulsions since 1996. Products include high-quality Paint Emulsions, Textile Binders for printing and flocking applications, Adhesives for BOPP tapes, Stickers and Lamination, Woodworking adhesives, and emulsions for construction chemicals.
- The annual capacity is 20,000 metric tons. The Paint emulsions are very well accepted by all the major Paint companies because of their excellent properties which add good value to their final products. A well-equipped laboratory ensures all products adhere to the required quality standards.

**About the company:** Incorporated in the year 1991, Sonal Adhesives Limited is one of the largest manufacturers and exporters of BOPP Self Adhesive Tapes and Various types of Speciality Adhesives & Emulsions in India.

#### Contact:

Sonal Adhesives Limited, Dist-Raigad  
Tel: 022-49633128  
Email: [info@sonal.co.in](mailto:info@sonal.co.in)



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E-mail: [santosh.kumar@airpipe.in](mailto:santosh.kumar@airpipe.in), [sales@airpipe.in](mailto:sales@airpipe.in) Visit: [www.airpipe.in](http://www.airpipe.in)





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Hyderabad 500 029. Telangana.  
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**Email: hitechadhesives@yahoo.com**

## NEW PRODUCTS

### PU FOAM GASKET

Dnyanraj Industries Pvt Ltd offers a wide range of PU foam gasket.

#### Features:

- They are the most trusted name amongst the topmost companies in this business, instrumental in offering a high-quality array of PU foam gasket.
- Its usage main application: thermal insulation, acoustic insulation, anti rattling insulation, bonnet insulation, engine insulation, shock absorbents, wiring harness insulation, protective packg, cushioning.
- Manufacturers of all types of foam products, self-adhesive tapes, wrapping films, stretch films, bubble rolls, polyethylene bags, nonwoven bags, foam, fabrication specialists & packaging solutions.

**About the company:** Dnyanraj Industries Pvt Ltd is a specialist in protective packaging. Their aim is to offer customers the perfect protective packaging solution and support them over the long term. People and Packaging with a Purpose We bring more to packaging than just the package.

#### Contact:

Dnyanraj Industries Pvt Ltd, Dist-Pune  
Mobile: 09970008827, 09970008824  
Email: response@dnyanrajindustries.com



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### BELT DRIVE SPINDLES – MV0910

Secon Technological Solutions Inc offers a wide range of belt drive spindles – MV0910.

#### Features:

- Offered two types of high precision spindles for CNC machining centers; belt drive spindles and direct drive spindles for a versatile range of machining options.
- The five series of CNC machining center spindles are all very rigid and feature very low run out tolerances, with speeds up to 12,000rpm.
- These high precision, high speed spindles are available in a range of sizes and are guaranteed to offer smooth operations and a long service life.

**About the company:** Secon Technological Solutions Inc. is engaged as a manufacturer, trader, service provider, distributor of CNC machines tools, preventive maintenance and consultancy services.

#### Contact:

Secon Technological Solutions Inc,  
Bangalore  
Telefax: 080-23575752  
Email: secontech2000@gmail.com



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Double end Load Cell



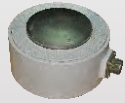
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Cantilver Load Cell



Aircraft Weighing Kit

**EPOCH Instruments & Controls Pvt. Ltd.,**  
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Email sales@epochloadcell.com, www.epochloadcell.com

## NEW PRODUCTS

### WIRES & CABLES

Tegh Cables (India) Pvt Ltd offers a wide range of wires & cables.

#### Features:

- Offered a wide range of products for residential, commercial, and industrial applications. Our cables are made with high-quality materials and are subjected to rigorous testing to ensure that they meet the highest standards of safety and performance.
- They are committed to providing our customers with the best possible products and services.

**About the company:** The Industry's Premier one-stop solution for Electrical and Mechanical Products and Services. With over four decades of experience, we have established ourselves as one of the largest channel partners for polycab cables, wires & other FMEG products across India. At Tegh Group, we take pride in being solution providers for various industrial pump applications. Our extensive product basket also includes cable trays and valves, making us your comprehensive source for industrial accessories.

#### Contact:

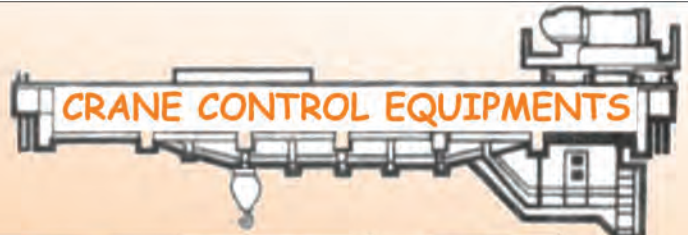
Tegh Cables (India) Pvt Ltd, Mumbai  
Tel: 022-40627000  
Email: enquiry@teghindia.com



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# SycoTec

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### Applications



Internal Grinding using a SycoTec Spindle



Profile Cutting with a SycoTec Spindle



Robotic Deburring of a Cluster-Gear, using a SycoTec Spindle



Robotic Application of SycoTec Spindle



Workpiece in Chuck being machined with SycoTec Spindle



SycoTec Spindle as a 5th Axis for VMC (Vertical Machining Centre)



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## NEW PRODUCTS

### RUBBER VACUUM SUCTION CUPS

Moulik Rubber Industries, Vasai (Maharashtra), has developed precision molded vacuum suction cups and bellows which are used extensively in automated material handling equipment along with food, packaging and printing industries.



#### Features:

- Rubber vacuum suction cups are manufactured from high quality polymers like silicone rubber, nitrile and neoprene rubber.
- These suction cups are available in various sizes, design, colours and folds to fit precisely to its assembly and allow it to pick-up and move the loads efficiently.
- They comply with all international standards like EU, US and Asian, making them the perfect replacement for the expensive cups made abroad.

**About the company:** Moulik Rubber Industries, established in 1990, are one of the leading manufacturers of high quality moulded and extruded rubber components. 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:

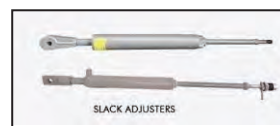
Moulik Rubber Industries, Mumbai  
Tel: 022 40037863 Mobile: 9820444582  
Email: response@moulikrubberindustries.com

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### SLACK ADJUSTER IRSA 600/750

V R Global Private Limited offers a wide range of slack adjuster IRSA 600/750.



#### Features:

- Slack adjusters are used to manually maintain proper brake chamber stroke and lining-to-drum clearance during normal operation. Slack adjusters are available in a variety of arm configurations, lengths, torque ratings and spline types.
- Since it is a part of Air Brake System of Wagons, it plays an important role in functioning of the brake system of wagons. The product is a critical item formed with assembly of 40 odd items made to perfection.

**About the company:** V R Global Private Limited is a leading company in the steel superstructure fabrication and erection industry.

#### Contact:

V R Global Private Limited, Kolkata  
Mobile: 09830856000  
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- \* Welding Oscillator(Weaver)
- \* ID Cladding
- \* Torches & Consumables



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## NEW PRODUCTS

### DEAERATING TANKS

Tecor Boilers Pvt Ltd offers a wide range of deaerating tanks.

#### Features:

- These systems are used to remove the dissolved gases efficiently from boiler feed water that is a required essential process in any of the steam systems. In the feed water, dissolved oxygen causes localized corrosion in boiler tubes. .
- While low pH levels and dissolved gases in the feed water are easily removed or controlled through adding the chemicals. This thermally and economically efficient system is best to remove the gases mechanically.

**About the company:** Established in the year 1991, at Delhi, India, we, "TECOR", are known as the most reputed manufacturer and supplier of premium quality range of industrial boilers, steam distribution headers, pressure reducing & super heating stations, pressure Moisture Separators, Pollution Control Equipment, Soot Blowers, etc.

#### Contact:

Tecor Boilers Pvt Ltd, New Delhi  
Mobile: 09810083254, 09810494163  
Email: [sales@tecorindia.com](mailto:sales@tecorindia.com),  
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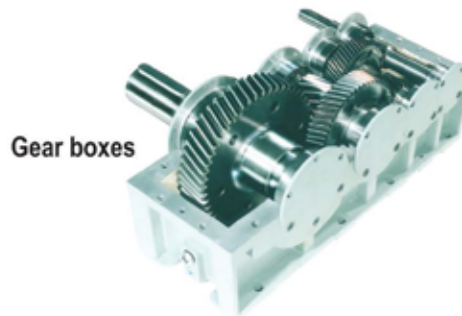
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Wire Rope  
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**Gear boxes**



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Blocks**

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## REVA INDUSTRIES INDIA PVT. LIMITED

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**Unit II** : Plot No.164, Sector-24, Faridabad - 121005, Haryana

**Unit III** : Plot No. 799, Sector 69, IMT Faridabad-121004, Haryana

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**Resolution** : Floating Decimal Point



**DC REGULATED POWER SUPPLY**

**SPECIFICATION**

**Input voltage** : 230V 10% AC 50 Hz  
**Output voltage** : Continuously Variable with Coarse & Fine Control  
**Output current** : Settable with Coarse & Fine Control  
**Load Regulation (CV)** : 0.05% 3mV From No Load To Full Load  
**Line Regulation (CC)** : 0.05% 1mA From No Load To Full Load  
**Line Regulation (CV)** : 0.01% 3mV for 10% variation input voltage  
**Line Regulation (CC)** : 0.01% 1mA for 10% variation input voltage  
**Ripple** : Less than 1mV  
**Protection** : Two DPM to monitor the output voltage & current  
**Protection** : Against short circuit & over load

| CODE                 | CES-500 | CES-501 | CES-502 | CES-503 | CES-504 | CES-505  | CES-506 | CES-507 | CES-508 | CES-509     | CES-510 | CES-511 | CES-512 | CES-513 |
|----------------------|---------|---------|---------|---------|---------|----------|---------|---------|---------|-------------|---------|---------|---------|---------|
| Output Voltage       | 0-32V   | 0-32V   | 0-32V   | 0-32V   | 0-32V   | 0-32V    | 0-64V   | 0-64V   | 0-64V   | 0-64V       | 0-128V  | 0-128V  | 0-128V  | 0-128V  |
| Output Current (Max) | 0-20A   | 0-10A   | 0-05A   | 0-2A    | 0-1A    | 0-30/50A | 0-1A    | 0-2A    | 0-5A    | 0-10/20/30A | 0-1A    | 0-2A    | 0-5A    | 0-10A   |



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Web: <http://www.crownelectronicssystems.com>, [www.crowndcpowersupply.com](http://www.crowndcpowersupply.com)

**NEW PRODUCTS**

**BIOMASS FIRED BOILER**

Prime Thermals Pvt Limited offers a wide range of biomass fired boiler.

**Features:**

- Multi pass auto controlled biomass fired boiler is a unique & very high efficiency Boiler which uses clean and renewable energy to produce high quality dry saturated steam as well as to mitigate the impact their activities have on the environment by reducing emissions of greenhouse gases.
- Effective disposition of radiation heat transfer area complimented by advantage of convective smoke tube heat transfer results in substantial saving of fuel.

**About the company:** Prime Thermals Pvt Limited is a closely held organisation and formed about 20 years back with a view to develop, manufacture Steam Boilers & Thermic Fluid Heaters for Process Industries like Dairies, Textiles, Animal Feed Plants, Breweries, Rice Mills, Chemical Plants, Solvent Extraction Plants etc.

**Contact:**

Prime Thermals Pvt Limited, Kolkata  
Mobile: 098310-24198 09748638845  
Email: [primethermals@gmail.com](mailto:primethermals@gmail.com)



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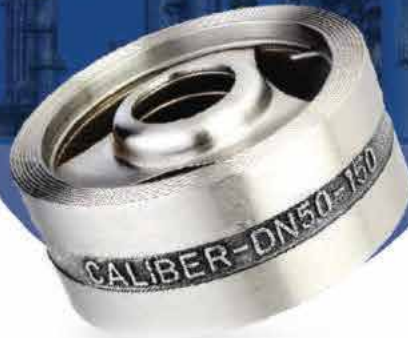
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E-mail: [design@conceptarbors.net](mailto:design@conceptarbors.net), [concept@expandingmandrel.net](mailto:concept@expandingmandrel.net)
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Rajdeep Boiler Pvt Ltd offers a wide range of bag filter.

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- Bag filter system is designed for optimum filtration performance. Its range provides filtration solution for a broad variety of fluid applications in the process industry.
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- The internal support ensures bags will not burst as high differential pressures build up during operation.
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**About the company:** RBPL had become one of the top manufacturers of boilers for textile industry.

#### Contact:

Rajdeep Boiler Pvt Ltd, Surat

Mobile: 09099898985

Email: info@rajdeepboiler.co.in



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- capacitance type level indicators / transmitters
- displacer level transmitters
- RF capacitance type level transmitters
- reed level indicators
- ultrasonic level transmitters

### LEVEL SWITCHES

- displacer operated magnetic level switches
- float operated external cage magnetic level switches
- float operated magnetic level switches
- reed level switches
- conductivity type level switches
- RF capacitance type level switches
- vibrating fork level switches
- rotary paddle level switches
- cable and float level switches
- Oil level float switches

### LEVEL GAUGES

- bicolor / color port level gauges
- reflex level gauges
- transparent level gauges
- tubular level gauges
- float and tape type tank gauges

### FLOW SWITCHES

- globe / vane type flow switches
- indicating flow relay
- thermal dispersion flow switches

### FLOW METERS

- paddle wheel flow meters
- electromagnetic flow meters
- magnetic flow meters
- ultrasonic flow meters
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- capacitive open channel flow totalizers
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blow down valve



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### HORIZONTAL THREE PASS THERMIC FLUID HEATER

Balkrishna Boilers Pvt Ltd offers a wide range of horizontal three pass thermic fluid heater.

#### Features:

- The Deltapac series, horizontal three pass thermic fluid/thermal oil heater is designed for maximum efficiency using a variety of liquid and gaseous fuels. It is designed with fuel flexibility in mind and can fire a range of heavy oils, light oils and gases. It allows high process temperatures with low operating pressures.
- Its features include: high capacity heating system; multi-fuel option - heavy oils, light oils and gases; Rugged - requires very little maintenance;.

**About the company:** Since its establishment before 2 Decades, Balkrishna Boilers Pvt Ltd has focused on developing innovative technologies in process heating. The expertise, knowledge, goodwill and experience garnered over 20 years based on servicing & catering to the demanding needs of industries in probably all types of fields and areas of applications.

#### Contact:

Balkrishna Boilers Pvt Ltd, Ahmedabad  
Mobile: 09825024450, 09898011090  
Email: sales@balkrishna.com



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**Name :** ROTOmax 4.2 TWIN STM  
**Product designation:** Maschine mit Biegsamer Welle  
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- Handabschaltung optional
- Anschluss von 2 Biegsamen Wellen möglich
- DIN 15 Drehzahl 500-10000 min-1
- DIN 10 Drehzahl 500-25000 min-1
- Ausführung STM: mit fahrbarem Wagen

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- DIN 10 speed 500 - 25000 min-1
- Model STM: Trolley mounted



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**About the company:** Sitson india Pvt Ltd is an ISO-9001 Company, incorporated in 1978 to provide specialized engineering services in the field of boilers and power generation. Since its inception, SITSON got good orders from sugar / chemicals, sponge iron and paper industries from all over the country for Boiler.

#### Contact:

Sitson India Pvt Ltd, Dist-Thane  
Tel: 02512871283, 02512871282  
Email: [sitson@sitsonindia.com](mailto:sitson@sitsonindia.com)  
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**About the company:** Established in the year 2007, Steam & Power Engineers are engaged in designing and manufacturing and supplying boilers for the power and energy sector in India. Apart from this, they even provide erection and commissioning and sales and services in boiler field.

### Contact:

Steam & Power Engineers, Pune  
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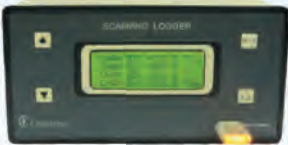
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#### Features:

- It is low initial & operational cost; beyond purview of IBR; steam at full pressure in two minutes of cold start; no explosion Hazard; high efficiency 5 pass design.
- Space saver - vertical package unit; dependable parts, longer life; easy trouble free operation; smokeless combustion; peak-efficiency at even part loads; wide temp. setting range. Inbuilt HRU & HRU bypass duct.

**About the company:** IMA Boilers Private Limited is an engineering company offering specialized services in industrial process heating systems, application, utilities, and system engineering. Our product range features Steam Boilers (Small Industrial Boilers), Thermic Fluid (Hot Oil) Heaters, (Direct) Process Oil Heaters, Solar Thermal Heaters, Hot Water Generators, Hot Air Generators, Waste Heat Recovery Units and a full range of ancillary equipment.

#### Contact:

MA Boilers Private Limited, Mumbai  
Tel: 022-25602369, 25683220  
Email: [info@imaboilers.com](mailto:info@imaboilers.com)



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- |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Machine Tools</li> <li>* SPM's</li> <li>* Earth moving Equipments</li> <li>* Borewell Drilling Rigs</li> <li>* Concrete Mixers</li> <li>* Drive for Sweeper Brushes</li> <li>* Road Pavers</li> <li>* Screw Drives in Plastic</li> <li>* Injection moulding Machines</li> </ul> | <ul style="list-style-type: none"> <li>* Robotics &amp; Automation</li> <li>* Special Purpose Machines</li> <li>* Pipe Bending Machines</li> <li>* Machine Tools</li> <li>* Earthmoving Equipments</li> <li>* Pallet Changers</li> <li>* Agricultural Machinery</li> <li>* Road Construction Equipments</li> <li>* Valve Actuation</li> </ul> | <ul style="list-style-type: none"> <li>* Earth Moving Equipments</li> <li>* Material Handling Equipments</li> <li>* Machine Tools</li> <li>* Hydro Electric Turbines</li> <li>* Mobile Cranes</li> <li>* Robotics &amp; Automation</li> <li>* Wagon Tipplers</li> <li>* Test Rigs &amp; Simulators</li> <li>* Mining Equipments</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Product Range



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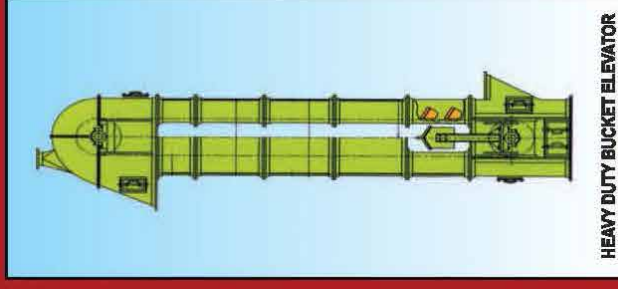
PIPE CONVEYORS



PULSE-JET BAG FILTER



IMPACT HAMMER CRUSHER



HEAVY DUTY BUCKET ELEVATOR



VERTICAL SHAFT IMPACTOR



SINGLE TOGGLE JAW CRUSHER



CONE CRUSHER



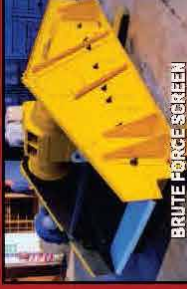
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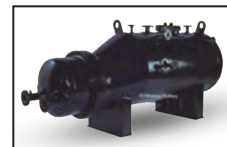
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## NEW PRODUCTS

### STEAM GENERATOR - MSG SERIES

Maxima Boilers Private Limited offers a wide range of steam generator - MSG Series.



#### Features:

- The MSG Series is a range of thermal oil steam generators, used along with thermic fluid heaters. This series is beneficial for customers who need additional steam in their plants, by utilizing the existing thermic fluid heaters.
- Thermic fluid based steam generator features: available in a horizontal orientation with shell and tube type construction; low fuel and operational costs, as the same heat transfer oil used in the thermic fluid heater, is used to generate steam; unlike the traditional steam boiler, this series does not require direct flame heating, making it safer and more reliable to use. Lower risk of explosion and safety hazard during operation. Does not require a licensed boiler operator. More affordable alternative to steam boilers.

**About the company:** Since 1986, Maxima Boilers has been a recognized boiler manufacturer in India, with an established reputation & presence in the industry. They have one of the most extensive range of heating products in the market which includes steam boilers, coil type boilers, thermal heaters, small industrial boilers, waste heat recovery boilers, hot water boilers, etc.

#### Contact:

Maxima Boilers Private Limited, Mumbai  
Tel: 022-25646815, 25612759  
Email:sales@maximaboiler.com

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### CAST STEEL GATE VALVE

Flowjet Valves Pvt Ltd offers a wide range of cast steel gate valve.

#### Features:

- There are different varieties of gate valves available and the Cast Steel Gate valve is one of them.
- The reason being this name is, that this particular type of gate valve is made with cast steel using a special type of mechanism. When you're dealing with high-pressure installations like gas, oil, oil vapour, steam etc. Cast Steel Valve is the only solution you can rely on which operates with straight-through ports.



**About the company:** Flowjet Valves vision is to achieve a leadership position in our industry vertical, to supply high quality products and solutions in an environmentally sustainable manner so as to fulfill our customer needs.

#### Contact:

Flowjet Valves Pvt Ltd, Ahmedabad  
Mobile: 09978608334  
Email: info@flowjetvalve.com

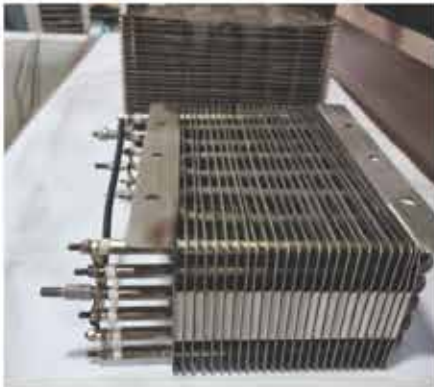
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## NEW PRODUCTS

### CABLE GLANDS & CABLE TERMINALS

Braco Electricals offers cable glands & cable terminals.



#### Features:

- Cable glands are a small part of the electrical system; but a single error and the entire electrical installation can fall apart, posing menacing risks to people's lives. With electrical system, there's no room for negligence and thus, managing electrical installations to perfection is imperative to a safe set-up.
- Cable glands are manufactured as per international standards. These cable glands are made in all sizes, specifications and designs such as single compression type, weatherproof and flameproof, flange type, etc.
- The company uses brass for industry application, while uses aluminum and stainless-steel for under water cabling.

**About the company:** In any electrical system, quality of cable products is vital. Braco products are available in brass, aluminum and copper range.

#### Contact:

Braco Electricals (India) Pvt Ltd, Mumbai

Mobile: 09870024900

Email: sunil@braco.in

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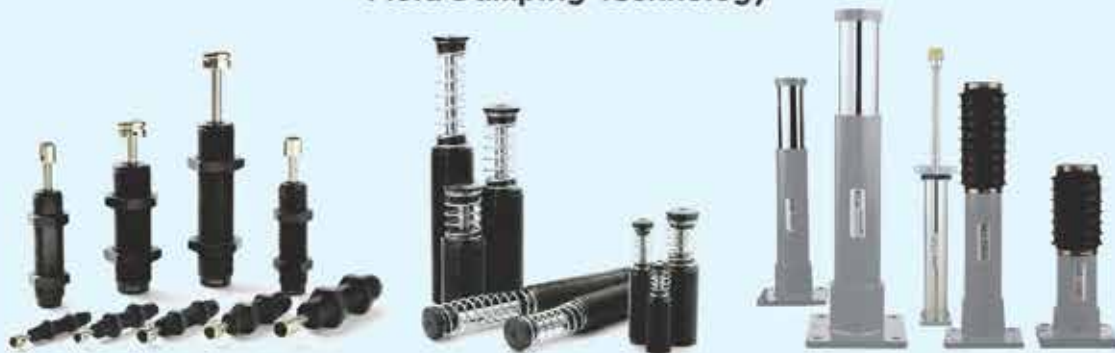


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Works: Survey No. 300/7, Behind Andra Plywood Company, Lodagalavanipalem Industrial Area,  
Anandapuram (M), Visakhapatnam - 530 052  
Email: sujineel2002@yahoo.co.in Contact: 09885369989, 09440578335

### PE PIPE PEELER

Arizona Tools Company offers a wide range of PE pipe peeler.

#### Features:

- PE Pipe Peeler prepares the outside diameter of polyethylene pipe for electrofusion by removing the oxidized layer and contaminates.
- PE Pipe Peeler can be used on the edge of the pipe or anywhere along the pipe with sufficient clearance for turning the tool around the pipe. Chain with thermoplastic rollers of acetal copolymer and plated side plates resist corrosion. Spring-loaded blade keeps consistent pressure on the pipe for a smooth finished surface.
- Its features include: One tool does a range of pipe; Creates a uniformly peeled surface; Works well even on out-of-round pipe; Strong thermoplastic rollers and plated sides on chain resist corrosion.

#### About the company:

Arizona Tools Company is a supplier of world renowned innovative and premium established tools.

#### Contact:

Arizona Tools Company, Kolkata  
Mobile: 09038081456, 09830030618  
Email: info@aztc.in



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### PTFE THREAD SEALANT TAPE

Arihant Packing & Gasket Company offers a wide range of PTFE thread sealant tap.

#### Features:

- Unsintered pure PTFE in tape form is the standard material for sealing threaded joints and connections. Joints can be taken apart long afterward without any trouble. It is virtually a universal sealing material which can be used on pipes of galvanised Iron, Rubber, Copper, Plastics, Brass, Aluminium, Stainless Steel, Ceramic, Monel, Carbon etc.
- The inherent plasticity of PTFE allows it to extrude into the irregularities of the thread, so filling any voids or passages.

**About the company:** Established in 1956 our parent firm A.K Jain and Brothers [www.akjain.co.in](http://www.akjain.co.in) is a highly acclaimed name for asbestos, Non-Asbestos Gland Packing, Ceramic Products, PTFE products, pure graphite products, Asbestos / Non-Asbestos Jointing Sheets, cut Gasket, Spiral wound metallic gaskets, Rubber Products, Brake liner & Friction Material and other industrial products in India for over 55 years.

#### Contact:

Arihant Packing & Gasket Company,  
Kolkata  
Tel: 033-22624511, 33164018  
Email: sales@arihantgasket.com



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### PGE® PILOSEAL (SWG)

PGE Industries Pvt Ltd offers a wide range of PGE® PILOSEAL (SWG).

#### Features:

- It is available in a full range of styles and materials, our spiral-wound gaskets are manufactured in accordance with ASME B 16.20 for use in all industry flanges, including ASME B16.5 and ASME B 16.47, Series A&B. Leader GT assures strict adherence to these specifications as routine inspection procedures are applied throughout the manufacturing process..
- Spiral wound gasket (SWG) consists of a thin metal hoop and non-metal filler material that is simultaneously wound.
- Depending on its excellent compression resilience, it is suitable for sealing spots where the alteration of temperature and pressure are frequent. It can be used as the static sealing element of pipe, valve, pump, thermal exchange, condensing tower, plain hole and man hole of flange, etc.

**About the company:** Established in 1981, PGE India (PILOT Gaskets) is the prominent manufacturer of sealing and insulating products.

#### Contact:

PGE Industries Pvt Ltd, Mumbai  
Mobile: 08080890022  
Email: info@pilotgaskets.com



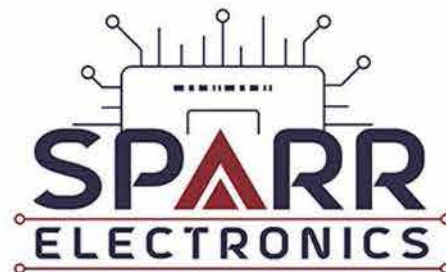
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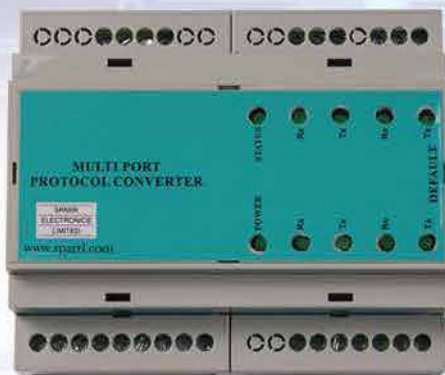




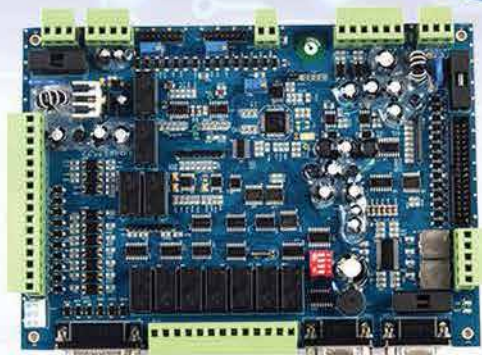
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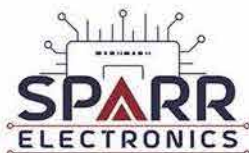


USB to  
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### CONTACT US

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## NEW PRODUCTS

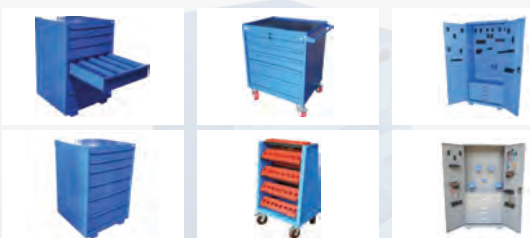
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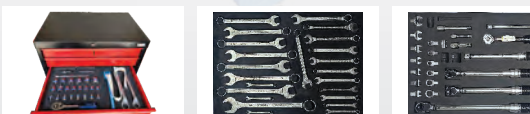
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## COOLING TOWERS

World Cooling Towers offers a wide range of evaporative cooling towers.

### Features:

- Evaporative Cooling Towers process cooling the air through the evaporation of water. It eliminates the sensible heat transfer step of the condenser coil water, which is required in the cooling tower/condenser system.
- An evaporative cooling tower is a structure optimized for cooling water and fluids. It operates on the evaporative cooling principle where absorption of energy needed to form water vapor leads to a drop in temperature.
- The evaporating water absorbs heat from the remaining water thus lowering its temperature. The air should be unsaturated to absorb water vapour. The higher the humidity, the lesser the water absorbed by the air leading to less cooling. It is working a Long time and enhanced service life.

**About the company:** World Cooling Towers (WCT) is a manufacturer of cooling towers using new technologies for efficient to meet the customer's requirement at an affordable price.

### Contact:

World Cooling Towers, Coimbatore  
Mobile: 9143022255, 9143122255  
Email: worldcoolingtowers@gmail.com.



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## PP DAMPER VALVES

Nirmala Pumps & Equipments offers a wide range of PP damper valves.

### Features:

- PP damper valve is designed with the control knob, blade and flange regulated manually or using electricity.
- It is essential for use in industrial plants or civil construction of air conditioning, air purification project, ventilation and HVAC. PP damper valves are commonly used in ventilation pipes and air conditioning ducts by adjusting the angle of a baffle to adjust the air flow volume in the duct.
- Polypropylene is anti-corrosive, prevents water condensation and provides excellent insulation performance. Flanges can be melted or welded to this damper for specific applications.

**About the company:** Nirmala Pumps & Equipments The dedicated and experienced manufacturers of various types of pumps and equipments. Our objective is to provide excellent quality equipment with innovative solutions to fulfill the specific requirements of our customers.

### Contact:

Nirmala Pumps & Equipments, Ahmedabad  
Mobile: 08401262518  
Email: sales@nirmalapumps.com



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## TUBE AXIAL FANS

Veekay Blower System offers a wide range of tube axial fans.

### Features:

- Tube axial fans are specifically designed for cost effective, reliable air movement in commercial and light industrial ducted and non-ducted applications.
- Its features include: die cast aluminum blades and hubs; continuously welded, heavy-gauge, corrosion resistant, dynamically balanced propellers for quiet, vibration-free operation.

**About the company:** Veekay Blower is committed to deliver the world class technology for Industrial fans and equipment. industrial fans segment in various parts of India.

### Contact:

Veekay Blower System, Mumbai  
Mobile: 09867015072  
Email: info@veekayblower.com



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237/8, Sonal Link Industrial Estate, Building No: 2, Link Road, Malad (W), Mumbai 400 064

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**Relative Humidity & Temperature Transmitters**

**Ceraheat**



Corusheat Ceramic IR heaters for industrial heating / Baking are available in following wattage and sizes

| SIZE          | WATTS         |
|---------------|---------------|
| 245 x 80 HSC  | 850W<br>1000W |
| 120 x 80 HSC  | 380W<br>500W  |
| 120 X 120 HSF | 800W<br>1000W |

Also available with embedded T / couple TC

**Ceramic Infrared Heater**

### Infrared Heater - Short wave

| Standard range of short wave IR Heater |                |                |                    |                     |
|----------------------------------------|----------------|----------------|--------------------|---------------------|
| Code                                   | Heated HL (mm) | Length OL (mm) | Overall Length (W) | Wattage Voltage (V) |
| SW500                                  | 127            | 212            | 900                | 240                 |
| SW1000                                 | 254            | 348            | 1000               | 240                 |
| SW1600S                                | 406            | 500            | 1500               | 240                 |
| SW16000                                | 406            | 500            | 1600               | 415                 |
| SW2000S                                | 508            | 625            | 2000               | 240                 |
| SW20000                                | 508            | 625            | 2000               | 415                 |
| SW25000                                | 635            | 728            | 2500               | 415                 |
| SW3000S                                | 508            | 625            | 3000               | 240                 |
| SW30000                                | 765            | 1120           | 3000               | 415                 |

All the above lamps are with round ceramic cap and 100mm long lead wire at both ends. For horizontal mounting application only



**Film & Wirewound RTD Element**

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## COPPER HEAD DSL SYSTEMS

Insutech Corporation offers a wide range of copper head DSL systems.

### Features:

- Insutech Corporation introduces copper head DSL systems to handle very high Amps from 750 Amps to 7000 Amps for demanding applications in steel melting shop and other continuous duty cranes.
- Until very recently for high Amps standard MS-rail were in use which proved to be extremely bulky. Copper Head DSL becomes instrumental for high Amps and moreover extremely compact in size as well as weight with the same agility of MS-rail, where customers don't have to setup bulky structure for supporting DSL.
- With multiple options starting from 750 Amps to 7,000 Amps, we at Insutech can design the system which shall suit your exact Amps requirement, hence making it extremely economical for the end user. For instance if the Load requirement is 2,150 Amps thus we shall design the copper conductor for 2150 Amps and not offer a standard catalog rating of 2,500 Amps, thus making it optimum technically as well as commercially.
- Insutech has become One Stop Shop for providing power transmission solutions for material handling industry offering array of products like drag chains, shrouded DSL, festoon systems, rail clamps, rail pads, spring buffers, MS-angle/rail DSL system and many more.
- Ease of operation, minimum maintenance, precision in handling critical components are key features of the product.
- With multiple products entirely made In India Insutech is material handling equipment manufacturing company with more than 4 decades of industry experience serving more than 300 customers.

**About the company:** Insu Tech offers solutions that are safe, robust and consistent for a Steel Plant operating conditions. These products are synonymous to crane OEMs across the world. It offers innovative solutions for new projects to provide optimal power transmission for material handling equipment. Inception of Insutech Corporation by Mr. Hitendra Shah, to provide customers with economical, efficient and well-engineered material handling solutions.

### Contact:

Insu Tech Corporation, Dist. – Palghar  
Tel: 0250-2453546, 2457073  
Mobile: 08669997733, 08669997833  
Email: suchit.shah@insutech.net,  
info@insutech.net



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## PUSH BUTTON - METAL SERIES

Esbee Electrotech LLP offers a wide range of push button - Metal Series.

### Features:

- One of our notable innovations is the development of Metal Push Buttons. These buttons feature a complete metal body with anti-corrosive plating, ensuring durability.
- The metal Push Button series has IP 65 protection. They are compatible with existing contact blocks and are available with various types of actuators. With their aesthetically pleasing design, they stand out in the market. Equipped with the necessary expertise to exceed customer expectations.

**About the company:** Esbee Electrotech LLP has established itself as a pioneer in industrial products, switches, and solutions for the white goods industry, as well as safety products for elevators. meeting the diverse needs of our valued customer.

### Contact:

Esbee Electrotech LLP, Pune  
Tel: 020-46907300  
Mobile: 098233 10351  
Email: info@esbee-electrotech.com,  
sandeep.desai@esbee-electrotech.com

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## CENTRIFUGAL BLOWERS

Delco Fans Pvt Ltd offers single phase capacitor run and three phase fhp centrifugal blowers, as per customer specific requirements.

### Features:

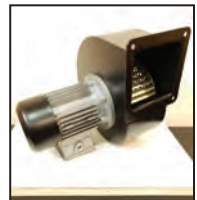
- Wide variety and range to meet trouble free application for original equipment manufacturers. Both side shaft rotation available. Sealed Ball Bearing on both sides.
- F' class insulation; Airflow 50 to 1600 CFM; blowers available from 1/20 Hp to 1 Hplmpellers in Aluminium and M.S. M.S. Powder Coated housing.
- Its application areas is: panel coolers; refrigeration Equipment's; plastic moulding machines. industrial microwave heating systems; food Processing Equipment's; popcorn warmers.

**About the company:** Delco Fans Pvt. Ltd. established in 1975. Our manufacturing range consists of FHP Electric Motors, Geared Electric Motors, Centrifugal Blowers and Industrial Fans. Presently we deal with more than 900 clients in India and Abroad. Our specialty is to manufacture products as per customers specific requirements.

### Contact:

Delco Fans Pvt Ltd, Thane  
Mobile: 09769201564  
Email: delcofans@gmail.com

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Switching sensors  
Measuring sensors  
Safety  
Identification

Data transmission  
Network and connection technology  
Industrial image processing  
Accessories and supplementary products

## Switching Sensors



- Optical sensors
- Inductive switches
- Capacitive sensors
- Ultrasonic sensors
- Fiber optic sensors
- Forked sensors
- Light curtains
- Special sensors

## Measuring Sensors

- Distance sensors
- Sensors for positioning
- 3D sensors
- Light curtains
- Bar code positioning systems
- Forked sensors



## Safety



- Safety laser scanners
- Safety light curtains
- Single and multiple light beam safety devices
- Safe locking devices, switches and proximity sensors
- Safety PLCs and relays
- Machine safety services

## Identification

- Bar code identification
- 2D-code identification
- RF identification





## Data Transmission



- Optical data transmission systems

## Network and Connection Technology

- Connection technology
- Modular connection units



## Industrial Image Processing



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- Industrial IP Cameras
- Vision Sensors

## Accessories and Supplementary Products

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- Mounting systems
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#862, 1st floor, GMR Heights, D Block, Karnataka Bank Main Road, Sahakarnagar,  
Bangalore - 560092 Phone: +91 080 46400 400 Ext. 440 Email: [info.in@leuze.com](mailto:info.in@leuze.com)

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## FEATURED PRODUCT

### REPAIRING OF TIME MAKES DIGITAL PORTABLE METAL HARDNESS TESTER

Heat Treatment Sales & Services, Ahmedabad offers complete repairing, servicing and calibration of all kinds of digital portable metal hardness testers. The company has factory trained engineers who can handle repairing, servicing and calibration of all portable metal hardness testers. The company offers the services of refurbished and reconditioned metal hardness tester with 6 months warranty, which includes parts and labour charges also. However, the dispatching/transportation cost and related expenses such as packing charges



are not included in the warranty. One can dispatch their fault hardness tester properly packed/crated and they will provide a free written estimate upon thorough examination of their portable hardness tester. The company also maintains a complete stock of spares and accessories like impact devices, impact bodies, standard test blocks, support rings, batteries, etc. According to them, when a complete service with spares is conveniently available why do users think of buying a new LEEB hardness tester? It is much more economical to get the existing hardness tester repaired, reconditioned, and refurbished or rebuilt at a fraction of the cost.

#### Contact:

Heat Treatment Sales & Services  
Contact Person: Mr. Bharat Shah  
L/119 GIDC Industrial Estate, Odhav  
Ahmedabad 382 415  
Tel: 079-22870144/Mobile: 08980718181  
Email: info@enmatest.com  
URL: www.enmatest.com, www.enmatest.co.in

### PORTABLE HAND-HELD: REFRIGERANT LEAK DETECTOR

Subtronics (India) Pvt Ltd offers a wide range of portable hand-held: refrigerant leak detector.



#### Features:

- Introducing the 3ST-PT Portable Hand-held Refrigerant Leak Detector – the essential one-piece kit for every refrigerant technician. This cutting-edge device is designed to detect leaks early, resulting in cost savings, improved energy efficiency, and minimized risks of refrigeration failure and product loss.
- Equipped to detect a wide range of common cooling agents, including Freon, R-32, R-1234yf, R-404a, R-410a, CFC, HFC, CO<sub>2</sub>, HCFC, HC, and HFO, the 3ST-PT utilizes special filter material to eliminate interference gases like alcohol. This ensures a highly selective response to low-flammable refrigerant gases, preventing false alarms and enhancing accuracy. Setting a new standard in refrigerant gas monitoring, the 3ST-PT is powered by the state-of-the-art XLP (Extreme Low Power) chip with a 16-bit ADC, guaranteeing unparalleled accuracy in detecting refrigerant gases. Its lightweight, single-handed operation and diffusion-based mechanism provide swift and reliable detection. The device triggers an alarm with vibration the moment gas concentration exceeds safety limits, mitigating the risks of explosions, combustion, or exposure to refrigerant gases.
- Key Features: Higher accuracy and faster response time to refrigerant gases; Store up to 300,000 readings with the included 32GB SD card; Secure access with password restrictions for control and safety; Confidence beep and taptic vibrator feedback for immediate awareness; Stealth mode for discreet testing; Easy unit conversion; Dual-line alphanumeric display with backlight for clear visibility in low-light conditions.
- Trusted across various industries, the 3ST-PT is invaluable in measuring, detecting, and activating alarms when refrigerant leaks occur. Its applications range from refrigerating machinery rooms in Industrial Cold Storage to Food Retail, Grocery stores, Apartments, Hotel Rooms & Occupied Spaces (VRF/VRV), Walk-in Freezers & Cold Rooms, Data Centers, and Chiller rooms.

**About the company:** Manufactured with pride in India by Subtronics (India) Pvt. Ltd., an ISO 9001 certified company with over five decades of experience and more than 4,500 satisfied clients. Subtronics has received 34 prestigious awards in recognition of its outstanding contribution to safety.

#### Contact:

Subtronics (India) Pvt Ltd, Mumbai  
Tel: 022-24224461/24303047  
Helpline: 09920821346  
Email: service@subtronicsindia.com

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- Terminal Strips
- Micro Switches
- Loom Switches
- Terminal Blocks
- Electronic Timers
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- Push Button Switches
- Electronic Connectors
- Micro Control Switches
- Led Module Pilot Lights
- Miniature Micro Switches
- Heavy Duty Limit Switches
- Miniature Limit Switches
- Wide Body Limit Switches
- Moulded Cable Assemblies



Ultra miniature switches/  
Reset Switches



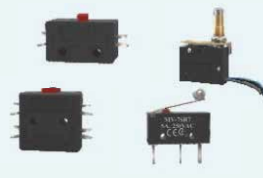
Heavy Duty Limit Switches



Precision Limit Switches



Micro Control Switches



Sealed/Miniature Micro Switches



Micro Switches



Miniature Limit Switches



Wide Body Limit Switches



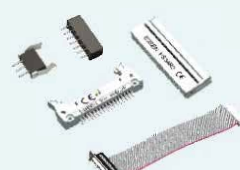
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D-sub Connectors



Euro Connectors/Reverse Euro  
Connectors 4 Row High Density  
Connectors



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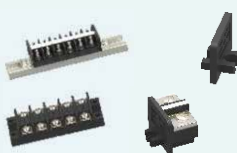
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Push Button Switches



Limit Switches/Loom Switches



Terminal Strip/Terminal Blocks

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www.essendeinki.com

### Branch Offices :

West - Mumbai

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e-mail : essen\_mumbai@essendeinki.com

South - Bengaluru

MOB : 9845082841

e-mail : essen\_blr@essendeinki.com

South East - Hyderabad

MOB : 9866500285

e-mail : essen\_hyd@essendeinki.com

East - Kolkata

MOB : 9831068770

e-mail : essen\_kolkata@essendeinki.com

Resident Engineers Based at : Delhi, Indore, Kanpur, Pune, Aurangabad, Chennai, Baroda

## VOLATILE ORGANIC COMPOUNDS - VOC DETECTOR, MODEL: OTSM-1

Subtronics (India) Pvt Ltd offers a wide range of volatile organic compounds - VOC detector, Model: OTSM-1.

### Features:

- Subtronics proudly presents its state-of-the-art model, the OTSM-1. This fixed diffusion-based VOC detector is designed to detect a range of Volatile Organic Compound gases at parts per million (ppm) levels. Volatile organic compounds are chemicals with high vapor pressure and low water solubility, commonly found in paints, pharmaceuticals, refrigerants, and other industrial products. Some well-known VOCs include acetone, benzene, ethylene glycol, formaldehyde, methyl chloride, perchloroethylene, toluene, 1,3-butane, xylene, and more.
- The OTSM series, also known as the "On The Spot Monitor," utilizes advanced photoionization technology with a 10.6eV lamp. This cutting-edge technology enables the OTSM-1 to detect a wide range of VOC gases, surpassing industry standards with a lifespan of 5 years. With its IP68 ingress rating and an Ex'd' case, the OTSM-1 is suitable for use in Zone 1 and Zone 2 areas. It carries a Gas Group IIC classification and a T6 temperature class rating. Additionally, the intrinsically safe sensor housing allows for sensor servicing without the need for a hot work permit. The OTSM-1 guarantees reliable VOC measurements even in the harshest environments.
- Equipped with Three Status (Registered Mark) LEDs and a bright digital display, the OTSM-1 ensures easy visibility of its status, even under direct sunlight or from a distance. Five magnetic switches facilitate intuitive setup and adjustments, with the LED keys illuminating to confirm key presses.
- The OTSM-1 models offer multiple output options, including RS485 MODBUS, 4-20mA current loop, and two programmable relays. These versatile options cater to various applications such as manufacturing and processing, refineries and petrochemicals, pharmaceuticals, indoor air quality monitoring, industrial painting and coating, fence line monitoring, tank farms, and bunkering.

**About the company:** Manufactured with pride in India by Subtronics (India) Pvt. Ltd., an ISO 9001 certified company with over five decades of experience and more than 4,500 satisfied clients. Subtronics has received 34 prestigious awards in recognition of its outstanding contribution to safety.

### Contact:

Subtronics (India) Pvt Ltd, Mumbai  
Tel: 022-24224461/24303047  
Helpline: 09920821346  
Email: service@subtronicsindia.com



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## VIBRATORY FURNACE CHARGER

Elektromag-Joest Vibration Pvt Ltd offers a wide range of vibratory furnace charger.

### Features:

- This vibratory furnace chargers are a cost effective method of increasing productivity and quality of melt. The furnace charger consists of storage hopper with vibrating feeder mounted on a mobile trolley which moves to and fro between scrap yard and the furnace.
- By using the furnace charger, controlled vibrations the metal is uniformly fed into the furnace whereby the melting cycle is reduced and the furnace life and the bridging forming situation is avoided.
- The entangled pieces of scrap metal form a layer above and if unrecognized by furnace operator, bridging can lead to super heating of bath and failure of furnace lining and run out.
- Due to controlled feed, the hot metal splashing is avoided and the charger can be operated from a framed plate by the operator without actually being near to the furnace.

**About the company:** Elektromag-Joest Vibration Pvt. Ltd., is a leading manufacture of Vibrating equipments for foundry, steel, mining, quarrying, chemical, food, recycling, air separation and thermal processing.

### Contact:

Elektromag-Joest Vibration Pvt Ltd, Mumbai  
Tel: 022-66624444  
Email: vibration@elektromag.com

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## CABLE DRAG CHAINS

Elektromag offers a wide range of metallic/plastic cable drag chains.

### Features:

- This Elektromag drag chains enable the conveyance of flexible cables/hoses, etc to movable units with maximum reliability.
- Its advantages of Elektromag cable drag chains is avoidance of mechanical strain on the cables/hoses.
- No tensile stress or compression, no frictional wear as there is no relative movement between the cables/hoses and the cable drag chain, no bending below an established radius, no crushing, buckling or forming of loops or torsion strain.

**About the company:** Established in the year 1958, Elektromag is engaged in manufacturing of metallic/plastic cable drag chains and supplying to various steel plant, machine tools, cement, foundries, etc.

### Contact:

Elektromag Methods, Mumbai  
Mobile: 09820192772  
Email: cablereels@elektromag.com



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## LEVEL ADJUSTING CASTER WHEELS

Jyoti Architectural Products Pvt Ltd offers a wide range of level adjusting caster wheels.

### Features:

- These level adjusting caster wheels are now available from ready stock with load capacity 50kg/250/500/750 & 1000kg/ wheel unique design allows to move the equipment on wheels whenever required.
- After positioning at desired place it will rest on rubber pad.
- This will eliminate movement & vibrations of equipment.

**About the company:** Established in the year 1992, "Jyoti Architectural Products Pvt Ltd", are counted amongst the prominent manufacturers, suppliers, importers, traders and exporters of caster wheels & furniture components. Being appreciated for their optimum quality, perfect finish & dimensional accuracy, their products are highly demanded in residential as well as commercial application by interior designers & architects.

### Contact:

Jyoti Architectural Products Pvt Ltd,  
Mumbai  
Tel: 022-42421000  
Mobile: 09320892981  
Email: sales@jyotiarch.in



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## SKATE CARGO TROLLEY FOR HEAVY MACHINES

Jyoti Architectural Products Pvt Ltd offers a wide range of skate cargo trolley for heavy machines.

### Features:

- This heavy duty M skate trolley for machinery movement is available in capacity 6T/12T/18T & 20T.
- These heavy machines can be moved / transported with ease with these trolley.

**About the company:** Established in the year 1992, "Jyoti Architectural Products Pvt Ltd", are counted amongst the prominent manufacturers, suppliers, importers, traders and exporters of caster wheels & furniture components. Being appreciated for their optimum quality, perfect finish & dimensional accuracy, their products are highly demanded in residential as well as commercial application by interior designers & architects. Moreover their products are dynamically balanced and are suitable for several high-speed applications. Technological upgradation helps us match latest industrial developments and offer products accepted as per global quality parameters.

### Contact:

Jyoti Architectural Products Pvt Ltd,  
Mumbai  
Tel: 022-42421000  
Mobile: 09320892981  
Email: sales@jyotiarch.in



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## 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: 022-66104058 Mobile: 09221047336  
Email: rkengcomp@gmail.com



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## PARALLEL & WOODRUFF KEYS

R K Engineering Company manufactures a wide range of Parallel and Woodruff Keys.

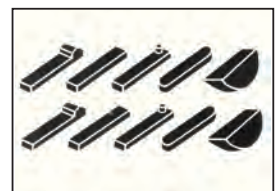
### Features:

- 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: 022-66104058  
Mobile: 09221047336  
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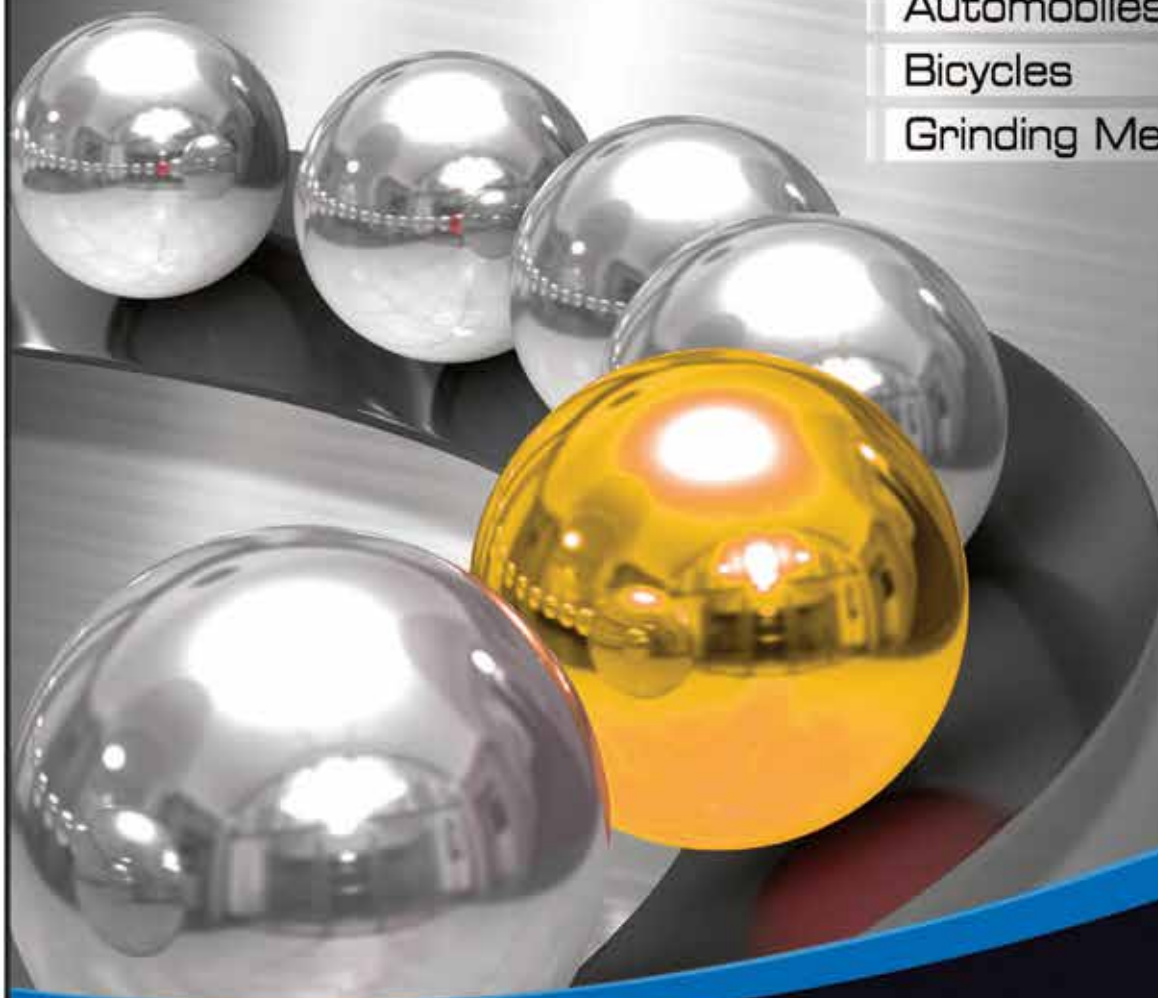
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Phones : +91-161-2534501, 2537869, 5084801

E-mail : [ballklings@ballkings.com](mailto:ballklings@ballkings.com)

Website : [www.ballkings.com](http://www.ballkings.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, 3/4" 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, etc.

### Contact:

Linear Systems, Mumbai  
Tel: 022-25512534  
Email: [info@linearsystems.in](mailto:info@linearsystems.in)



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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, 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.

**About the company:** C Bole & Co offers wide range of seal-less magnetic drive monoblock, chemical process pumps which ensures 100% leak proof operation. They are ideal for transfer of corrosive chemicals, acids, dyes, solvents, toxic and fuming liquids, petrol, kerosene, water etc.

### Contact:

C Bole & Co, Mumbai  
Tel: 022-23424350, 23429641  
Email: [cboleco@yahoo.com](mailto:cboleco@yahoo.com)  
[cboleco@hotmail.com](mailto:cboleco@hotmail.com)



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## BARREL PUMPS

C Bole & Co offers a wide range of barrel pumps.

### Features:

- These are available in various types like, hand operated, motorised, air operated, flameproof, etc.; available in different materials of construction such as Stainless Steel 316, polypropylene, MS and aluminium.
- It requires a smaller footprint and is suitable for installation where the ground surface area is limited. Used for handling a variety of viscous and non-viscous liquids like solvents, alkalies, pesticides, gasoline, fuel oil, inflammable corrosive liquids, varnishes, petroleum products, drugs and pharmaceuticals and degreasing agents, glucose, honey, glycerine, shampoo, paints and other highly viscous liquids.

**About the company:** C Bole & Co offers wide range of seal-less magnetic drive monoblock, chemical process pumps which ensures 100 per cent leak proof operation. They are ideal for transfer of corrosive chemicals, acids, dyes, solvents, toxic and fuming liquids, petrol, kerosene, water etc.

### Contact:

C Bole & Co, Mumbai  
Tel: 022-23424350, 23429641  
Fax: 022-23424040  
Email: [cboleco@yahoo.com](mailto:cboleco@yahoo.com)



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## BURNER SEQUENCE CONTROLLER

Linear Systems offers a wide range of burner sequence controller.

### Features:

- The burner sequence controller is an automatic electronic controller used for oil-fired boilers/burners; the sequence controller is designed to ensure safe start up and operation of oil fired burners.
- This controller finds ready application in oil-fired boilers/furnaces and also offered are sequence controllers for gas-fired burners.
- Controller is manufactured with microprocessor-based technology, ensuring quality and reliability.
- It has the capability of supplying sequence controllers to suit the specific requirement of the OEM.

**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](mailto:info@linearsystems.in)



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## PNEUMATIC BALL VIBRATORS



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- Wide range of 8 models.

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- 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.

### Types:

- Single impacting.
- Continuous impacting.
- Air cushioned.



## Sinex Primemovers

'Sinex House', Plot No. 127, Navghar Village, VASAI East - 401 208,  
Dist. Palghar, Near Mumbai on Western Railway.

Mobile: +91- 9561467183

Email : sales@sinexprimemovers.onmicrosoft.com; sinexpm@gmail.com

Visit our website :

[www.sinexvibratorsindia.com](http://www.sinexvibratorsindia.com)

[www.sinexvibratorsindia.net](http://www.sinexvibratorsindia.net)

*Dealer / Representation Enquiries Solicited*



# END TO END PLANT AUTOMATION FOR AGILE MANUFACTURING

The manufacturing industry in India is moving up the value curve. The focus is shifting from volume to value, driven by quality and consistency. Investing in modernization and automation has become an imperative. After working with the industry for over 2 decades, we are leading this revolution with guaranteed performance metrics on OEE, throughput, quality and accuracy.

## WHY AUTOSYS?

- Fixed price contracts
- Deep domain / process knowledge across many industries
- Strong multi-disciplinary expertise  
(Mechanical-Electrical-Instrumentation-PLCs-Software)
- Engineering team has worked together for 20+ years, 400+ projects.



## CAPABILITIES

### Consulting and Services

- Green field projects – EPC / Turnkey
- OEE improvement, De-bottlenecking, Modernization, Automation.
- Project management • Software Development for MES, M2M and IOT.

### Systems

- Automated material handling (raw materials to finished products)
- Batching plants (from silos & feeders to mixers & grinders)
- Automatic weighing & dosing (grams to tons, solids and liquids)
- Instrumentation, Control and Telemetry
- PLCs, SCADA, MES Software
- Power, MCC and Control panels

### Domains

- Water, Waste-water • Oil and Gas
- Refractories, Ceramics, Building materials, Friction materials
- Food, Animal feeds, Nutrients, Pharma • Chemicals, Plastics

### Products

- Recron / Fibre dosing system
- Preform (fibrous composite) dosing system
- Automatic nailing system (for wooden skids / pallets)
- Batch weighing system
- Bagging machines
- Bag placers, palletizers

**Xeleer**

Product division  
of Autosys

## Autosys ENGINEERING (P) LTD

Odyssey Building, 2nd Floor, No.45 & 47, 1st Main Road,  
Gandhi Nagar, Adyar, Chennai 600020, Tamil Nadu, India

✉ [vjk@koremec.net](mailto:vjk@koremec.net) 🌐 [www.koremecgroup.com](http://www.koremecgroup.com)

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☎ +91 44 4353 3557

☎ +91 98401 58512

## Associate company

  
**koremec**  
🌐 [www.koremec.com](http://www.koremec.com)

## MULTIFUNCTION POWER & HARMONICS ANALYZER MODEL – KM 2300

Kusam Electrical Industries Ltd offers a wide range of multifunction power & harmonics analyzer Model – KM 2300.

### Features:

- Model KM-2300 is a new Class "A" Power Quality Analyzer introduced by "KUSAM-MECO", an ISO 9001-2015 certified company. This Power Quality Analyzer has an Auto Power off & LCD Back light display function.
- It has safety features CAT III 1000V / CAT IV 600V & standards IEC610191, IEC61000-4-30A Class. It can be easily operated to capture the power quality problem.
- It support USB port to connect to PC and analyze the data / screen shots copied by U-disk & also supports LAN port to make the remote control available, transfer the measuring data. Also Supported WIFI, GPS communication.
- It measures Voltage range (0~1000Vrms), Current range (1~3000Arms), Frequency range (42.5~57.5Hz & 51~69Hz), Harmonics range (0~50). It can also measure Active power range (1.0~20M Ohm), Apparent power range (1.0~20M Ohm), Reactive power range (1.0~20M Ohm), Power factor range (0~1), Energy (0kWh~200GWh), DIPS & SWELLS range (0~200% for Vrms/Arms) with Programmable threshold in % of nominal voltage Event detection based upon 1/2 cycle rms voltages Captures Dips, Swells Interruptions and Rapid Voltage Changes. This model has Data Logger function, System monitor (Record time upto 7 days & Record Event number > 10000). It has adapter input AC 220V (1±10%), 50Hz (1±5%), ≤ 10VA.
- It is supplied with Voltage Test Lead, Alligator Clips, Power Adaptor, Power Cord, Hang strap, Software CD & User Manual.

**About the company:** Established in 1983, Kusam-Meco, an ISO 9001:2008 certified company, introduced and pioneered the use of digital multimeters and clamp meters in Indian industry. It also offers the industry's broadest line of digital test instruments for electrical, electronic and environmental testing and measurement applications. KUSAM-MECO pioneered the use of Digital Multimeters in India in 1986. KUSAM-MECO continues to introduce new products with unique features & high safety protection to meet the current market demand and satisfy customer's diverse applications. The promoters of the company have over 50 years of experience in the field.

### Contact:

Kusam Electrical Industries Ltd, Mumbai  
Tel: 022-27754546, 27750662,  
Email: sales@kusam-meco.co.in



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## MAGNETIC GRIPPER – EMH

Schunk Intec India Pvt Ltd offers a wide range of magnetic gripper – EMH.

### Features:

- Electro-permanent magnetic gripper for energy-efficient handling of ferromagnetic workpieces with integrated electronics and feedback function.
- The function of the magnetic gripper bases on the combination of AlNiCo and neodymium magnets. The magnetic flux of the AlNiCo magnets passes the neodymium magnet in the deactivated state, and closes the magnetic circuit over the gripper base body made of steel. To activate the system, an electric current pulse is conducted through the coil, which reverses the polarity of the AlNiCo magnets accordingly.

**About the company:** Schunk Intec India is engaged in products distribution and supply of industrial automation systems, automation work holding, tool holding, heat shrink tool holder, etc.

### Contact:

Schunk Intec India Pvt Ltd, Bangalore  
Tel: 080-40538999  
Email: rakhi.singh@in.schunk.com



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## SURFACE GRINDING MACHINE (MANUAL)

Universal Machine Tools Corporation offers surface grinding machine (manual).

### Features:

- The machine is built of heavy cast iron hand scrapped to fine tolerance, easy movement of table slide by providing V – ways & flat ways.
- The grinding wheel spindle is hardened and round and runs in precision contact angular bearing and driven by flange, vertical grinding wheel slide movement down at right side in the body.
- The vertical wheel dial least count in 0.01 mm and micro feed least count in 0.001 mm.
- These machines are available in various sizes: 450 X 225 mm , 600 X 300 mm. And also available in hydraulic version.

**About the company:** Universal Machine Tools Corporation, established in 1981, is one of the leading companies in the machine tool industry.

### Contact:

Universal Machine Tools Corporation,  
Bangalore  
Tel: 080-23356231, 23108370, 23206821  
Mobile: 09845006959, 09844199559  
Email: universalblr@gmail.com,  
info@universalblr.com,  
Sales@universalblr.com



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## GEARED MOTORS

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 **BONVARIO** **SIEMENS**
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 **ABB**


## ROBOTICS

 **EPSON**


## POWER TOOLS


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## PNEUMATICS



## ALUMINUM PROFILE



IBK Aluminum Profile and Tables using  
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40 Half Curve, 45x45, 45 Half Curve,  
60x60, 40x80, 45x90, 80x80, 90x90,  
and accessories

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Website: [www.ibizkart.com](http://www.ibizkart.com)



## HYDRAULIC ROTARY ACTUATORS

Rotodyne Fluid Technic offers a wide range of hydraulic rotary actuators.

### Features:

- Rotary Actuators are devices for converting the pressure energy in a fluid medium to useful Rotary Power.
- The Rotary Motion is usually limited to one revolution or less and hence they are also known as Partial Rotation Motors or Oscillators. This design with a single moving part gives a long and trouble free service life with zero backlash.s actuation angle.
- The designs with double vane are also available. External stops will be required to stop and hold loads at desired position and deceleration of high inertia loads shall be achieved through proper meter out circuits.

**About the company:** Rotodyne Fluid Technic is design and manufactures rotary joints for various sectors like Machine tool, Earth Moving , Construction, Hydro Power and Defence.

### Contact:

Rotodyne Fluid Technic, Bangalore  
Tel: 080-28396831

Email: [info@tornadofluidpower.com](mailto:info@tornadofluidpower.com),  
[marketing@tornadofluidpower.com](mailto:marketing@tornadofluidpower.com)



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## VACUUM CIRCUIT BREAKER

Excel Power Switchgear Pvt Ltd offers a wide range of vacuum circuit breaker.

### Features:

- The vacuum circuit breaker is the heart of the Switchgear which consists of the Vacuum Interrupter, spring charged motor, closing solenoid, opening solenoid, anti pumping device, contact arm with isolating contact, buffer system, with-drawable trolley and multi pole control wiring plug & socket through which the circuit breaker is coupled with the control and protection circuit.
- This allows the mechanism to close the vacuum interrupter contacts, compress the contact pressure springs, charge the opening spring and overcome frictional force.

**About the company:** Excel Power Switchgear, a high tech manufacturing unit established in 1998, is engaged in R&D, production, and manufacturing of low & medium voltage switchgear. Our company has displayed a rapid growth in the switchgear industry.

### Contact:

Excel Power Switchgear Pvt Ltd, Chennai  
Tel: 044-22254870

Email: [sales@excelpower.co.in](mailto:sales@excelpower.co.in)



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## END BRUSHES KNOTTED, SHANK-MOUNTED

PFERD offers a wide range of end brushes knotted, shank-mounted.

### Features:

- It is aggressive brush. Suitable for medium-duty brushing such as deburring, cleaning, derusting and descaling, as well as removing spatter.
- Steel wire is the most common filament material. Brushes with steel wire as the filament material are especially well-suited to work on surfaces and deburring. PFERD special wire has high tensile strength and bending fatigue strength. This ensures that the wire wears down in the optimal way, as well as a long tool life, even in extreme brushing applications. Steel wire withstands temperatures up to 300 Â°C.
- Its advantages: Optimal access to hard-to-reach areas such as recesses and drilled holes. Aggressive brushing effect due to the very stiff wire knots. Long tool life through use of PFERD special wire.

### About the company:

PFERD engages in development, production and support and distribution of tool solutions on jobs for surfaces and material cutting.

### Contact:

PFERD, Bengaluru

Mobile: 09880665415, 09741481117

Email: [sales@swit.in](mailto:sales@swit.in)



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## SEAMLESS NITRILE DIPPED GLOVES -K63NAA

Mallcom India Ltd offers a wide range of seamless nitrile dipped gloves -K63NAA.

### Features:

- Nitrile coated palm and finger on yellow para-aramide shell. Construction gives you excellent hand dexterity with blue smooth finish. Coloured polypropylene overlock binding. Knitted wrist for enhanced grip.
- Nitrile coating on para-aramid string knits. Available in light, medium and heavy shells Excellent cut and abrasion-resistant. A comfortable glove with excellent dexterity, enhanced grip particularly useful in a slippery and oily environment.

**About the company:** Mallcom (India) Ltd is India's leading personal protective equipment (PPE) brand. Having a presence in more than 50 countries in 6 continents, Mallcom has established itself as the integrated manufacturer and distributor for head to toe protection and is a valued partner for major importers in their brand name.

### Contact:

Mallcom India Ltd, Kolkata

Tel: 033- 40161005/1077 Mobile:

09147157136

Email: [safety@mallcom.in](mailto:safety@mallcom.in)

[sofia.chattopadhyay@mallcom.in](mailto:sofia.chattopadhyay@mallcom.in),



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| Products      |                              | Applications                                                                                                                                                                                                                |  | Images |  |
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| p2            | INJECTION MOULDING           |                                                                                                                                                                                                                             |  |        |  |
| p3            | BLOW MOULDING                |                                                                                                                                                                                                                             |  |        |  |
| p4            | VINYL CALENDERED FILMS       |                                                                                                                                                                                                                             |  |        |  |
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| p6            | WATER BASED PAINTS           |                                                                                                                                                                                                                             |  |        |  |
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**Contact: Aron Universal Ltd.**

#103/104, Brigade Business Suites, T Mariappa Road (100ft Road), Ashoka Pillar, Jayanagar 2nd Block, Bangalore - 560011 | phone:-+91-953 8611 235 | email:-exports@aronuniversal.com

## SPRING BALANCER

Vijay Air Control offers a wide range of spring balancer.

### Features:

- It is fatigue less works and improved production efficiency.
- Available in capacities ranging from as low as 0.5kg upto maximum 120kg capacity.
- The fall arrest device in provide against tool drop cause by srping breakage.
- It has secondary support hanger is available on every model.

**About the company:** Vijay Air Control is a one large workplace where work is done and then put on the market in the form of products and services. This work must be benefit if it is to hold its own in the face of competition. Only company based on sound economic, technical and organisation principles and which is in a position to have a say in future developments is a match for the challenges presented by the market and competition.

### Contact:

Vijay Air Control, Bengaluru  
Tel: 080-23148871, 23141136  
Mobile: 08951101436, 09880652082  
Email: saivacblr@vacpneumatic.co.in



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## MAGNETIC DRUM MACHINES

Magnetics Corporation of India offers a range of magnetic drum machines.

### Features:

- These are used for removal of tramp/iron impurities from chemicals, food items, ceramics, silica, quartz, glass chips and glass raw materials, etc., where the conveyor beltings are not available.
- Any material fed to hopper will be moved down through vibratory feeder with controlled feed rate.
- In the process, the material free of iron particles will be collected at the forepart of the machine with natural fall. Tramp iron falls at the rear side of the drum as this half of the drum is non-magnetic.

**About the company:** MCI has the distinction of handling design, manufacture, installation and commissioning of user-friendly, oil-cooled, electro magnetic separators for National Thermal Power Corporation Ltd. (NTPC), Singrauli; which is in perfectly working condition and in use for past 12 years.

### Contact:

Magnetics Corporation of India, Bengaluru  
Tel: 080-28360556  
Email: sales@magcorpindia.com



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## TORQUE WRENCHES

Enerpac India Pvt Ltd offers a wide range of custom torque wrenches.

### Features:

- The company offers a variety of controlled tightening tools to meet the requirements of the application along with the hydraulic torque tools needed for accurate and simultaneous tightening of the multiple bolts.
- Due to space constraints and the location of reaction points, customised components are often essential for bolting applications. When standard torque wrenches do not meet the application needs, Enerpac engineers and product specialists work with the customers to produce customised components for their bolting application.
- Enerpac's depth of manufacturing resources can support high volume, simple modifications, as well as private labeling.

**About the company:** Enerpac is pushing the industry forward with a wide range of advanced industrial tools and services that first and foremost ensure its customers operate safely and productively every day. The company is a global leader in high-pressure hydraulic torque wrenches.

### Contact:

Enerpac India Private Limited, Bangalore  
Tel: 080-39289000  
Email: nibedita.jyotishi@enerpac.com



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## PURGE ROTAMETER ALUMINIUM

Placka Instruments India Pvt Ltd offers a wide range of purge rotameter aluminium.

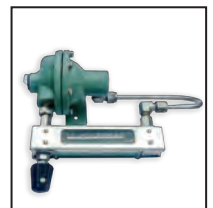
### Features:

- Rotameters are the mostly widely used type of variable area (VA) flowmeter. The movement of a float in a tapered tube provides a measure of flow rate.
- In Placka purge rotameter a constant flow differential pressure flow regulator is used to maintain the purge flow late at the desired level. A needle valve is used for convenient setting of the flow rate.
- Its applications include: accurate level measurement; purging for corrosive fluids; continuous lubrication (bearings); density measurement; gas analysers (sample delivery).

**About the company:** Placka Instruments & Controls (Shreyas Instruments Pvt Ltd), established in 1974, manufactures process control instruments, such as air filter regulators, rotameters, level switches, level gauges, liquid level controllers, transmitters etc.

### Contact:

Placka Instruments India Pvt Ltd, Chennai  
Tel: 044-22231559  
Email: plackainstruments@yahoo.com, sales@plackainstruments.com



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## HIWIN INTERNAL RECIRCULATION TYPE BALLSCREW

IBK Engineers Pvt Ltd offers a wide range of Hiwin internal recirculation type ballscrew.

### Features:

- Internal recirculation type ballscrew, consists of the screw spindle, the ball nut, the steel balls and the ball return caps.
- The steel balls make only one revolution around the screw spindle. The circuit is closed by a ball return cap in the nut allowing the balls to cross over adjacent ball tracks.
- Its features include: Adapted to normal leads and Outer diameter of nut is small.

**About the company:** Established in 2014, IBK

Engineers Pvt Ltd, is engaged in the wholesaling, supplying, distributing and trading of deep groove ball bearing, mechanical bearing, roller chain, safety equipment, automotive components, electric equipment, etc.

### Contact:

IBK Engineers Pvt Ltd, Bengaluru

Mobile: 09880566644

Email: [raju.kn@ibizkart.com](mailto:raju.kn@ibizkart.com)



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## LASER CONTROL MICRO COMPACT NT

Blum-Novotest Measuring & Testing Technology Pvt Ltd offers a wide range of laser control micro compact NT.

### Features:

- Laser measuring system for CNC machining centres for non-contact tool measurement and tool monitoring under the harshest conditions. Unbeatable precision and reliability due to high-quality laser optic, intelligent NT Electronics and unique BLUM protection system.
- Its applications include: support systems provide highest precision; laser diodes and lenses of the highest quality; Intelligent NT-Technology; maximum absolute accuracy with focused laser beam; programmable by integrated microprocessor; pre-aligned laser for easy mounting; extremely robust and long-lasting fast, precise and automatic measurement of all tool types, shapes and cutting materials.

**About the company:** Blum Novotest Measuring &

Testing Technology Pvt Ltd has made a name for itself in the list of top suppliers of bore gauge, radio receiver in India.

### Contact:

Blum-Novotest Measuring & Testing

Technology Pvt Ltd, Bangalore

Mobile: 09075004435

Email: [info@blumnovotestindia.in](mailto:info@blumnovotestindia.in)



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## PRECISIONS TURBO HYDRO MACHINE VICE

B R Precisions offers a wide range of precisions turbo hydro machine vice.

### Features:

- This type of Hydraulic vice achieves a clamping force up to 5000kgs using the simple turn of the handle without any effort.
- This advantage makes them ideal for heavy duty clamping in Machines. This hydraulic vice is Made out of high tensile casting. Machined and surface flame Hardened and ground to ensure maximum accuracy. Jaw plates are made out of tool steel machined and heat treated Hardened at 52° to 56° HRC and ground with stopper hole in side of the clamping jaws Inbuilt hydraulic cylinder for high clamping force which does not required any external force. Different stations given that is Pin changing for clamping the work pieces at different levels for shortening the time lapse of rotating the handle Tenon slots are grounded Longitudinal and cross squareness and Parallelism accuracy at 0.02 Micron High deflection / Bending resistant constructed for machining center Milling VMC and other machine shop applications.

**About the company:** B R Precisions is dedicated to

the manufacturing of clamping solutions; our main products are high pressure and precision vices.

### Contact:

B R Precisions, Bangalore

Mobile: 09845208854, 09449648171

Email: [brvices@rediffmail.com](mailto:brvices@rediffmail.com)



Scan the QR Code for instant product enquiry



## PORTABLE ENGINE OPERATED ACTUATORS

Indaai Technologies Pvt Ltd offers a wide range of portable engine operated actuators.

### Features:

- It is compact, light, quick, reliable, the model APS1000N is portable engine-operated actuation system that, coupled to manual operation units, makes it possible to handle medium-size sluice gates quickly and safely.
- With a weight of about 12kg and a modern engine Honda GX25 4T, this model that can be used in either the horizontal or vertical position, guarantees really surprising performances, it is actually the ideal partner for all water-treatment sector operators.

**About the company:** Indaai Technologies Pvt Ltd is in the business of flow management. They offer virtually every solution related to flow, whether it is pumping or flow control or flow measurement.

### Contact:

Indaai Technologies Pvt Ltd, Pune

Mobile: 09766336366

Email: [response@indaai.com](mailto:response@indaai.com)



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## LOW CLEARANCE ROTARY PIPE CUTTERS

Arizona Tools Company offers a wide range of low clearance rotary pipe cutters.

### Features:

- Cut pipe quickly and with minimal digging using REED Low Clearance Rotary Cutters. The low profile design of the LCRC models needs only 5 inch (127 mm) clearance for up to 16 inch pipe diameter. Safe, clean, straight cuts are easy with these manual-operated cutters.
- They could cut large diameter steel, most stainless steel, ductile, and cast iron pipe in close quarters. LCRC cutters are supplied with a slip-on handle that is used to turn and tighten the cutter.
- With good leverage from the tool's long handle, pipe snaps off squarely before the cutter wheels penetrate halfway through the pipe. Provides a square cut and can be used in close quarters anywhere – in the ditch, underwater, in noise-free zones, over head, in racks of pipes, etc. With general maintenance and cutter wheel replacement, REED's Low Clearance Rotary Cutters last for decades.
- Its features include: The low profile design of these cutters requires only 5" (127 mm) clearance; Excellent for cold cuts; Pipe snaps off squarely once the operator completes the cut.



**About the company:** Arizona Tools Company is a supplier of world renowned innovative and premium established tools.

### Contact:

Arizona Tools Company, Kolkata  
Tel: 033-40013866  
Mobile: 09038081456, 09830030618  
Email: info@aztc.in

Scan the QR Code for instant product enquiry



## EXTRA-LONG SERIES ENDMILL

JD Cutting Tools offers a wide range of extra-long series endmill.

### Features:

- Solid carbide provides better rigidity than high speed steel. It is extremely heat resistant and used for high speed applications on cast iron, nonferrous materials, plastics and other tough-to-machine materials.
- Spiral flutes are constructed of a high flute angle to remove chips more easily. Titanium carbonitride (TiCN) is harder and more wear resistant than TiN.



**About the company:** JD Cutting Tools Incorporated a manufacturer of high precision engineered custom, standard and modified standard cutting tools.

### Contact:

JD Cutting Tools, Pune  
Mobile: 09373798685, 08446900019  
Email: jayant@jdcuttingtools.com

Scan the QR Code for instant product enquiry



## HEAVY DUTY LATHE MACHINE

Bharat Machinery & Spares offers heavy duty lathe machines.

### Features:

- The offered machine is widely used in machinery, engineering, automobile and parts manufacturing companies. .
- This machine is accessible in a wide range of configurations available in different model numbers; custom design as per client's specifications is available.

**About the company:** Bharat Machinery & Spares, established in 1988, is engaged in manufacturing, trading, wholesaling, distributing, retailing and exporting a wide range of workshop, sheet metal, wood working and general machinery and machine tools.

### Contact:

Bharat Machinery & Spares, Mumbai  
Mobile: 09820980256  
Email: sales@bharatmachinery.com



Scan the QR Code for instant product enquiry



## PLAS IN-LINE ROTARY PIPE CUTTERS

Arizona Tools Company offers a wide range of in-line rotary pipe cutters for plastic pipe.

### Features:

- PLAS In-Line Rotary Cutters are excellent for cutting PVC or PE pipe in trench or above ground. Each PLAS rotary cutter needs just 6" to 8" (153 - 203 mm) clearance around the pipe, making them easy to operate in trench and with lower prep costs.
- Each PLAS cutter also can produce, in-line with the cut, a 15° bevel on both sides of the pipe using bevel blade PLAS4B. For cutting PVC pipe, the long-lasting carbide-tipped blades penetrate up to a 2" wall thickness. For cutting PE pipe, REED developed a hardened, tool steel blade for best cutting results. The engineered blade tip drives chips out of the way while cutting PE.
- Its features include: Safe to use as it creates no dust and chips fall where they are cut. There is no danger of chips being blown well into pipe. Only 6"-8" clearance needed to turn PLAS tool around pipe. Cuts out-of-round pipe because of spring loaded nuts. With PVC models, simultaneously cut and bevel PVC using cut-off blade and bevel blade. Inexpensive tool for contractors to make a cut for a tie-in or pipe break and then get the line back in use. Reduce overall labour costs.



**About the company:** Arizona Tools Company is a supplier of world renowned innovative and premium established tools.

### Contact:

Arizona Tools Company, Kolkata  
Tel: 033-40013866  
Mobile: 09038081456, 09830030618  
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HI Cupla



SP Cupla Type A



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Nozzle Ionizers



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|             |     |  |  |  |
|-------------|-----|--|--|--|
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| Hex (H)     | H   |  |  |  |

|                                |                           |  |  |  |
|--------------------------------|---------------------------|--|--|--|
| Torx / Torx<br>Tamper<br>Proof | NT/JT<br>NT XXH<br>JT XXH |  |  |  |
| Socket                         | A/F                       |  |  |  |

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Cell: +91 98451 69807, +91 98451 22462, +91 81050 81051, Email: customer.support@pneumec.in | sales@pneumec.in

Branches: Chennai | Ahmedabad | Pune

Customer Care: +91 81050 81051 | Website: www.pneumec.in

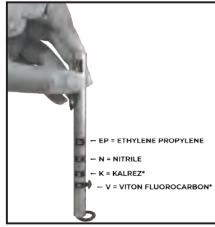


## THE ORID

Siemag Industries offers a wide range of "THE ORID".

### Features:

- If 1000 'O' Rings of nitrile get mixed up with 1000 Viton 'O' Rings you can end up losing around ₹ 50,000.
- A mechanical tool that identifies the grade of rubber from the height of the first bounce indicating the 'O' Ring Rubber Compound.
- The ORID will indicate the material composition of 100, 200, 300 & 400 series 'O' Rings of 60 to 80 Durometer.
- The company has successfully developed a variety of control and automation products over the years as a result of continuous effort and enterprise thereby providing an effective solution to pneumatic control problems.



**About the company:** Siemag Industries a certified ISO 9001:2000 company was established in the year 1959 primarily for the manufacture and supply of field power accessories especially in the field of pneumatics.

### Contact:

Siemag Industries, Mumbai  
Tel: 08478847821/31/91  
Mobile: 07718875757, 07710920909  
Email: info@siemag.net

Scan the QR Code for instant product enquiry



## PRESSURE SENSOR ALARM SYSTEM

Siemag Industries offers a wide range of pressure sensor alarm system machine - model: PSA-LH-DUAL.

### Features:

- The pressure sensor can be set for low pressure as well as for high pressure range & shall detect and raise an alarm when the pressure fluctuates beyond the set pressure range. The machine has a digital pressure sensor with a PLC controller that detects if the pressure has gone beyond the set pressure range.
- The moment the pressure reduces below the low pressure range or increases above the high pressure range an alarm is raised alerting the people around on the change in the set pressure resulting in avoiding any system failure. One can then attend to the problem only when required.



**About the company:** Siemag Industries a certified ISO 9001:2000 company was established in the year 1959 primarily for the manufacture and supply of field power accessories especially in the field of pneumatics.

### Contact:

Siemag Industries, Mumbai  
Tel: 08478847821/31/91  
Mobile: 07718875757, 07710920909  
Email: info@siemag.net

Scan the QR Code for instant product enquiry



## PUSH IN FITTING & PIPING SYSTEM

Siemag Industries offers a wide range of push in fitting & piping system.

### Features:

- Siemag Introduces Aluminium Air Distribution network from Italy. Manufactured from finest material the fittings are designed to be used without any special tools.
- These aluminium pipes are significantly thinner yet more rigid and has a very smooth internal finish thus reducing the friction resulting in better flow rates and reduced pressure drops.
- Additionally the fittings are designed keeping in mind the ease of installation and reduces installation time by up to 50 % needless to mention the ease with which it can be modified if required.



**About the company:** Siemag Industries a certified ISO 9001:2000 company was established in the year 1959 primarily for the manufacture and supply of field power accessories especially in the field of pneumatics.

### Contact:

Siemag Industries, Mumbai  
Tel: 08478847821/31/91  
Mobile: 07718875757, 07710920909  
Email: info@siemag.net

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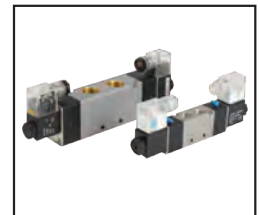


## 5/2&5/3 WAY SPOOL TYPE DOUBLE SOLENOID VALVE

Siemag provides excellent quality 5/2 & 5/3 way double solenoid valves, which are manufactured by utilizing high grade material and manufactured on state of the art machinery.

### Features:

- These 5/2 & 5/3 way double solenoid valves are widely accepted by our customers all around and are reasonably priced.
- The valves are used to operate double acting cylinders and are widely used for industrial automations & a broad variety of application such as pick & place unit, robotics arms, pneumatic presses & other variety of application.



**About the company:** Siemag Industries a certified ISO 9001:2000 company was established in the year 1959 primarily for the manufacture and supply of field power accessories especially in the field of pneumatics.

### Contact:

Siemag Industries, Mumbai  
Tel: 08478847821/31/91  
Mobile: 07718875757, 07710920909  
Email: info@siemag.net

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## SWING TYPE HORIZONTAL BAND SAW MACHINE MODEL ITL- 225 TSA

ITL Industries Limited offers a wide range of swing type horizontal band saw machine model ITL- 225 TSA.

### Features:

- Specially designed cutting head – for high cutting rate Head home position can be easily set close to the job.
- Inclined blade penetration helps in reducing the cutting area. For higher cutting rate and better tool life. Specially useful in cutting structural steel and Square / Rectangular pipes.
- Separate power pack with in-built hydraulic tank for easy maintenance. Hydraulic tank is having oil level indicator for easy monitoring.
- Angular cutting facility at both side. The angle can be easily set by rotating cutting head without disturbing material to cut.
- Hydraulic clamping arrangement with additional facility to clamp the job from both side of blade, for angular cutting from both side and index material from both side of the machine.
- Hydraulic cutting feed for achieving high cutting rate and better accuracy. Adjustable through a precise flow control valve.
- Ergonomically designed inbuilt control panel with switch gears & other controls. Variable Frequency Drive provided for adjusting blade speed through control panel itself.
- Angular cutting feature enhances the usage of this machine. It is very useful for structural fabrication application.
- Very economical and cost-effective cutting solution. Very compact construction.
- Machine is having both straight as well as angular cutting.
- Angular cutting is through head rotation keeping job stationary hence very easy to operate.

**About the company:** ITL (a BSE Listed Company since 1993) came into existence 30 Years with its own indigenous design & developed India's first double Column bandsaw machines. ITL offers a wide range of horizontal & vertical bandsaw machines with 52 different models having capacity from 100 MM to 3000 MM featuring manual, semi automatic, fully automatic, NC & CNC models.

### Contact:

ITL Industries Limited, Indore  
Tel: 0731-7104400/409  
Sales: 0731-7104412/416  
Email: [marketing@itl.co.in](mailto:marketing@itl.co.in),  
[info@itl.co.in](mailto:info@itl.co.in)

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## SPRING WASHER

Khanwalkar Industries offers a wide range of Carbon' brand spring washer.

### Features:

- These are manufactured on automatic machines within close tolerances and under strict quality control that are applicable to production process.
- The company supplies its product 'Carbon' spring washers conforming to various standards like ISS, BSS, DIN, ASA, JIS and also in stainless steel (SS-304, SS-316 & SS-202) all over India.
- These washers conforming to special sizes and combi sizes are also available. Washers are manufactured in ID size 2.5mm to 50mm in natural black and in electroplated coating with blue, golden green finish and with trivalent coating.

**About the company:** Khanwalkar industries, an ISO 9001:2015 certified company manufacturing 'Carbon' brand spring washer in carbon steel (EN-42B), domestic market of India.

### Contact:

Khanwalkar Industries, Indore  
Mobile: 09993555087  
Email: [Khanwalkar08@gmail.com](mailto:Khanwalkar08@gmail.com)

Scan the QR Code for instant product enquiry



## NANO HYBRID AHU

Vaayu Home Appliances (India) Pvt Ltd offers nano hybrid AHU.

### Features:

- Vaayu is world first patented Nano Hybrid AHU which is an innovative solution for air cooling. Vaayu is a green and sustainable air cooling solution that can replace air conditioners and traditional evaporative air coolers by providing 20 degree temperature difference from ambient at 80% less power consumption as compared to same tonnage air conditioner.
- This benefits of using Vaayu: reduces power consumption up to 80% as compared to similar tonnage AC; delivers green temperature of 20-24degree Celsius; does not emit heat in the environment; 100% fresh air based; reduces high maintenance cost of AC; generates carbon credits.
- These products could be installed for commercial as well as domestic purposes while on erection as well as in erected premises like: factories, hotels, banquet, bungalows, mess, etc..

**About the company:** Vaayu is a Multinational Company which is working for innovative cooling solutions and is a certified ISO , CE, ROHS Company.

### Contact:

Vaayu Home Appliance (India) Pvt Ltd, Indore  
Mobile: 09685090174, 09981184811  
Email: [info@vaayuindia.com](mailto:info@vaayuindia.com)

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Phone - 033 4005 6875, 033-22628923 | Mobile No- 9007062702  
Email - avinash.a@vrglobal.co.in, vrglobalpvtltd@gmail.com

## CONTACT US :

## Factory Address ::

Vill- Narendrapur, P.O.- Munshirhut, P.S. - Jagatballavpur, Howrah -711410  
Email - factory@vrglobal.co.in



## 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 1360Kgs. The doors are durable aluminium framed door assemblies with clear glass. As safety measure now Negex have Emergency Buttons along with User Lights on both sides of Shower for all doors to be unlocked instantly.
- 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 & entry doors ensures both doors from being opened.
- All doors are unlocked automatically in case of power failure for safety reasons.
- It is duration of air shower is programmable. Continous flow of air is available at lower speeds at stand by mode thereby reducing energy consumed & maintaining the chamber clean.
- This time watch along with thermometer have been provided for instant display. It is stainless steel flooring ensures easy maintenance & cleaning.

**About the company:** Sam Products Pvt Ltd was incorporated with the aim to serve the customers with honest deals and high quality products such as plastic air curtains, air showers, etc. The company started its business operations in the year 1992 as a manufacturer and supplier of varied line of products for different industrial usage. This entire range of products is manufactured complying to the prevailing norms and standards of the respective industry. Located in Noida, they strictly examine our clean room garments storage, air cooling system etc. In addition to this, they package the aforesaid products with standard materials for a safe shipment of the same.

### Contact:

Sam Products Pvt Ltd, Noida

Tel: 0120-4357039

Mobile: 09810065139

Email: samproducts1992@gmail.com



Scan the QR Code for instant product enquiry



## BAND SAW MACHINE MODEL ITL – 300 TCBA-NC

ITL Industries Limited offers a wide range of band saw machine model ITL – 300 TCBA-NC.

### Features:

- Different types of material cutting, rear-feed machine.
- Anti friction LMG bearings for smooth up-down movements of cutting head (blade).
- Hydraulic automatic feed regulation to adjust feed without operator involvement depending upon material composition, hardness and cross-section. Much superior and better technology than conventional hydro mechanical blade sensor.
- Carbide face blade guide preciously manufactured and mounted carbide with anti friction bearings which does not required frequent alignment.
- Sturdy Split Main Vice helps in holding the job on both sides of cutting. Hydraulic Blade Tension for precise blade tensioning of blade for cutting. The blade tension is gradually released when power off to avoid falling of blade.
- Heavy Duty Gear Box with taper roller bearings to take the side thrust load of blade tension easily. The drive output is very smooth which helps in getting very high blade life.
- High Pressure Coolant Jets are provided for chip removal at very high cutting rates. Better cooling and chip removal helps in achieving high tool life and exceptional material removal rate (MRR).
- Ergonomic design of Electrical control panel and Hydraulic Power Pack for ease of operation and maintenance. Machine controls shall be through screen, HMI for easy operation. Machine with shuttle indexing 400mm.
- Bar indexing through servo-motor and ball-screw. Additional operator console for easy operation of the machine. Machine is enclosed from all side to keep the working area clean and operator safety. NC control of the machine give additional facility to use it with minimum manual control. High degree of length accuracy and precision achieved.

**About the company:** ITL (a BSE Listed Company since 1993) came into existence 30 years ago with its own indigenous design & developed India's first double Column bandsaw machines. ITL offers a wide range of horizontal & vertical bandsaw machines with 52 different models having capacity from 100 MM to 3000 MM featuring manual, semi automatic, fully automatic, NC & CNC models.

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ITL Industries Limited, Indore

Tel: 0731-7104400/409

Sales: 0731-7104412/416

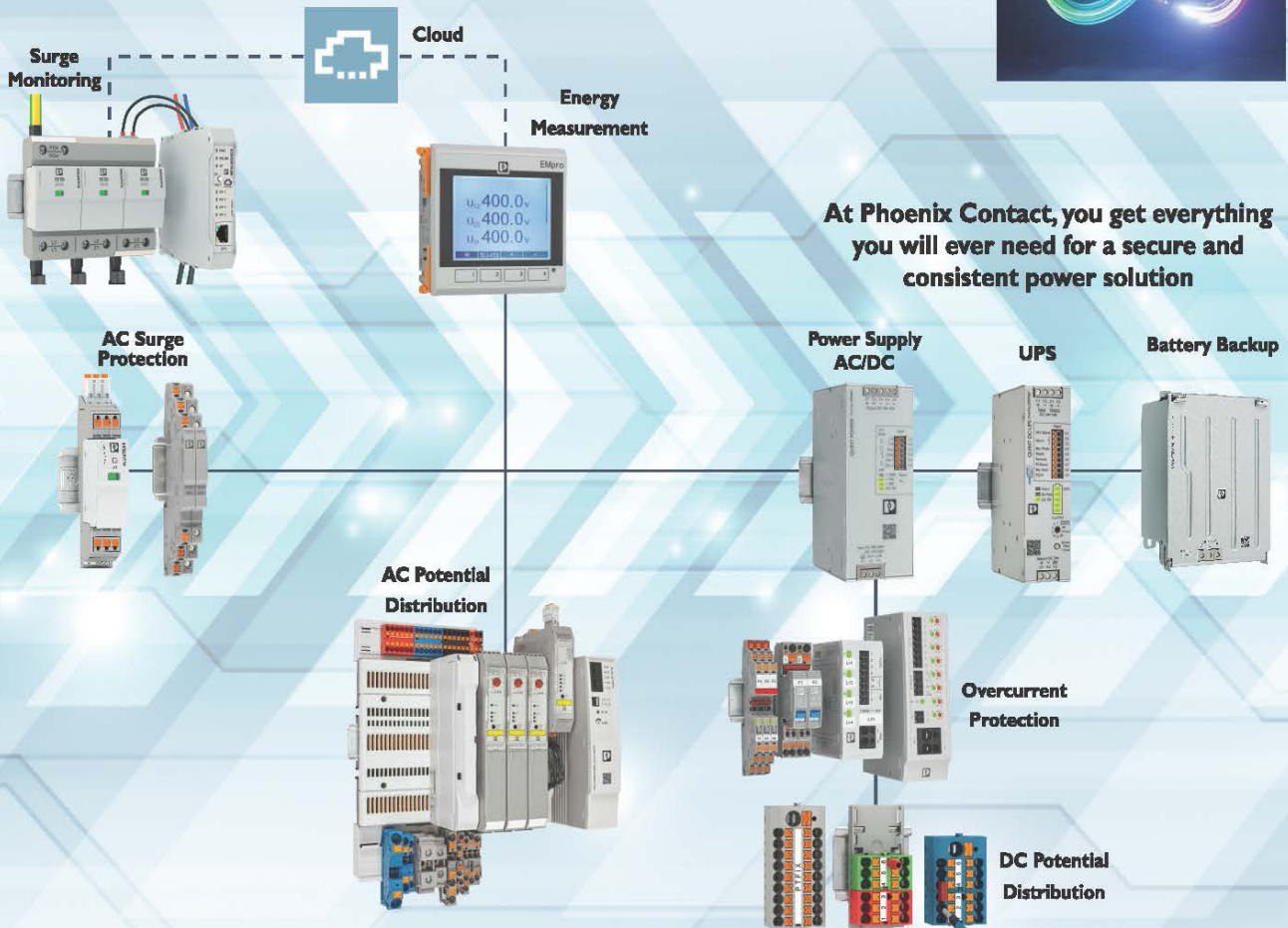
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Fax: +91-11-41611071  
E-mail: [response@phoenixcontact.co.in](mailto:response@phoenixcontact.co.in)  
Website : [www.phoenixcontact.co.in](http://www.phoenixcontact.co.in)

#### SOUTHERN INDIA OFFICE

No. 10/7 - 8, 2<sup>nd</sup> Floor;  
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Bangalore - 560 001  
Tel.: +91-80-33235400

#### WESTERN INDIA OFFICES

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Ceaser Road, Amboli,  
Andheri [W], Mumbai - 400 058  
Tel.: +91-8377004752 / 4753

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Contact Person: Mr. Aniket Sawarkar

W. : CC3-04, Harihar Corporation, Near Gajanan Petrol Pump,  
Village Dapode, Mankuli Naka, Dist. Thane - 421 302  
Contact Person: Mr. Aniruddha Sawarkar - 98190 47460

### Our Clientele :





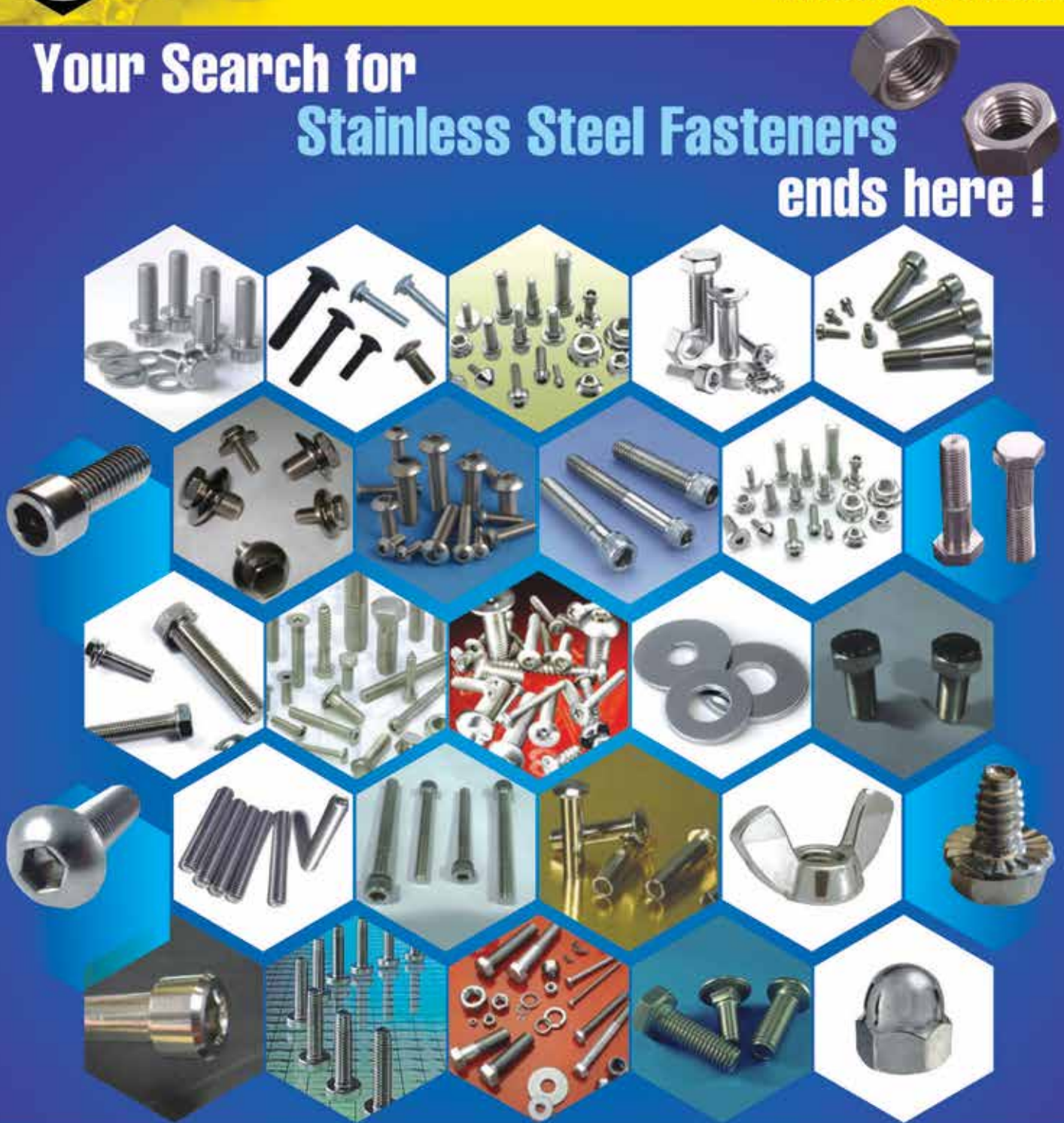


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**Regd. Office Address :**

# 301, Local Shopping Centre, Derawal Nagar,  
Gujranwala Town, Phase - IV, New Delhi-110009

**Website :** [www.saifasteners.co.in](http://www.saifasteners.co.in)

**E-mail :** [sai@saifasteners.com](mailto:sai@saifasteners.com), [ss316@saifasteners.com](mailto:ss316@saifasteners.com),

**Contact:**

Mr. Manoj Gupta **Mobile:** 9910901128

**Email:** [mgupta@saifasteners.com](mailto:mgupta@saifasteners.com)

Mr. I. Raja **Mobile:** 9215911240

**Email:** [iraja@saifasteners.com](mailto:iraja@saifasteners.com)

**Customer Care No. :** 8295835400 / 9896311755

## 3-PHASE PARAMETER MEASUREMENT MODEL NVIS 7070



Nvis Technologies Pvt Ltd offers a wide range of 3-phase parameter measurement model Nvis 7070.

### Features:

- Very good product to measure 3-phase electrical parameters simultaneously without using individual metres.
- It measures voltage, current, frequency, active power, reactive power, apparent power and power factor.
- Suitable to measure active, reactive, and apparent energy in both the 3-phase configurations such as WYE or DELTA.
- It has best of the specifications and features in this particular segment such as Microcontroller based design for accurate measurement, 240 x 128 graphical LCD display to view all the parameters simultaneously, used with single phase / three phase supply.

**About the company:** Nvis Technologies Pvt Ltd is a leading technological solution provider in education and environment sectors.

### Contact:

Nvis Technologies Pvt Ltd, Indore  
Tel: 0731-4211500  
Email: info@nvisetech.com

Scan the QR Code for instant product enquiry



## DAYTONE FAST DRYING INK FOR BATCH CODING



The Daylight Industries offers a wide range of daytone fast drying ink for batch coding.

### Features:

- It is widely used for batch coding, rate and date marking on packing materials. It can be used for all porous and non-porous substrates like plastic films, plastic bottles, glass, aluminum, ceramics, laminated and varnished paper, board, tin, wood, cloth, jute, plastic woven sack bags, cellophane etc.
- Daytone Reducer for fast drying ink is also available. It is used to reduce viscosity of Ink in stamp pad, stereo during works.
- The Daylight Industries also manufactures various products like stamp pad, stamp pad Ink, permanent marking ink, natural & synthetic glues and adhesives.

**About the company:** The Journey of Daytone Stationery Products began in 1956 when Mr Lalchand Bhatia & Mr Mohanlal Bhatia started manufacturing black waterproof drawing ink which was import substitute at that time and made significant position in the market.

### Contact:

The Daylight Industries, Indore  
Tel: 0731-4092493  
Mobile: 09827061135  
Email: daytoneindia@gmail.com

Scan the QR Code for instant product enquiry



## GUN-BOW PERMANENT MARKING TOOL



Parivar Enterprise offers a wide range of Gun-bow permanent marking tool.

### Features:

- Parivar Enterprise has been engaged in the manufacturing of portable engraving tool under the brand name "GUN~BOW" since 1987.
- Parivar Enterprise is a group of experienced technocrats, having in-depth knowledge in the field of design, production, inspection, etc. of permanent marking tool.
- GUN~BOW is used for engraving marks /glass, ceramic, marble, casting, etc such metallic and some non metallic items.
- GUN~BOW works smoothly and accurately within voltage fluctuation of 180V to 230V A C (also available for 110V A C if specified).

**About the company:** Parivar Enterprise's GUN-BOW permanent marking tool is used to mark registration numbers on various industrial assets, dies, machines etc. The new heavy duty model works on hardened metals also. works on normal 230 V AC power supply and consumes very less power.

### Contact:

Parivar Enterprise, Mumbai  
Tel: 022-25015457 Mobile: 09320883053  
Email: gunbow007@gmail.com

Scan the QR Code for instant product enquiry



## WORKSHOP SCANNER



Newtech Equipment offers wide range of automobile workshop scanners.

### Features:

- This is very important equipment for every automobile workshop, engineering institutes, and automobile professionals.
- Some of the key product features include LCD-LED backlight 320x240 resolutions, 40 columnsx12 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, trader, importer and exporter of an assortment of wheel balancers, computerised wheel aligners and automatic tyre changers, established 2008.

### Contact:

Newtech Equipment, Ahmedabad  
Mobile: 09327123141, 09426068557  
Email: newtechequipment@gmail.com

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## TWIN SPINDLE CNC CHUCKER MW100HG

Meiban Engineering Technologies Pvt Ltd offers a wide range of twin spindle CNC chucker MW100HGF.



### Features:

- Muratec MW100HG is a twin-spindle CNC chucker that provides exceptional rigidity for high-precision jobs and improved productivity.
- Equipped with column and turret bar construction and a high-speed three-axis gantry loader, this machine boasts a load/unload time of fewer than 5 seconds and can produce parts in as little as 16 seconds.
- The MW100HG also has twin high-speed, three-axis CNC gantry loaders, allowing dual operations on spindles for even more productivity. When compared to similar models in the market, Muratec MW100 is incredibly compact and fast, making it the perfect solution for line planning, as well as for reducing cycle times and saving space of the production floor.
- MW100G is available in six different standard cell configuration specifications to meet your requirements in production and line planning.

**About the company:** Meiban Engineering Technologies Pvt Ltd is a solution provider in the field of automation and turn key projects for manufacturing automobile and sheet metal components.

### Contact:

Meiban Engineering Technologies Pvt Ltd,  
Bangalore  
Tel: 080-26860600  
Email: office@meibanengg.com

Scan the QR Code for instant product enquiry



## CNC SHAFT TURNING MACHINE ML400 WITH GANTRY LOADER

Meiban Engineering Technologies Pvt Ltd offers CNC shaft turning machine ML400 with gantry loader.



### Features:

- The ML400 is a super compact shaft Turning machine for the automated turning of shaft parts up to 400 mm (15.7") in length and up to 200 mm (7.9") in diameter.
- Reduced Cycle Times are a guarantee with the ML400, in addition to a quicker changeover of parts and fully programmable capabilities from one machine.
- Unlike similar machines, the ML400 is unique because it uses a vertical bed rather than a slant bed. This allows chips to drop directly into the conveyor, preventing hot chips from overheating the machine.
- The ML400 incorporates live tools on both upper and lower turrets to accommodate various applications.

**About the company:** Meiban Engineering Technologies Pvt Ltd is a solution provider in the field of automation and turn key projects for manufacturing automobile and sheet metal components.

### Contact:

Meiban Engineering Technologies Pvt Ltd,  
Bangalore  
Tel: 080-26860600  
Email: office@meibanengg.com

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## TWIN SCREW PUMPS

UT Pumps & Systems Private Limited offers a wide range of twin screw pumps.



### Features:

- These twin screw pumps are self-priming, double ended positive displacement pumps with external timing gears and bearings.
- Their design provides complete axial balancing of the rotating elements and eliminates all metal-to-metal contact within the pump, making them suitable for dry running.
- Its features and advantages: separate screw and shaft assembly; combination of material possible for screw & shafts; independent material of construction for screw & shaft respectively; change in pump design possible from long shaft to small shaft and vice versa.

**About the company:** UT Pumps & Systems Private Limited was established as a joint venture partner with a leading German manufacturer of screw pumps J H Bornemann in the year 1984 under the name and style Bornemann India Limited.

### Contact:

UT Pumps & Systems Private Limited,  
Faridabad  
Tel: 0129-4045831, 4046882, 2274861  
Email: sales@utpsl.in

Scan the QR Code for instant product enquiry



## CLEAR WATER PUMPS

Darling Pumps Pvt Ltd offers a wide range of clear water pumps.

### Features:

- These darling openwell submersible pumps are not only unique in design, but are very compact, sturdy & are highly reliable.
- Its applications include: this range of darling open well submersible clear water pumps consists of S and M series pumps. These pumps are not only ideal for various agricultural applications but are also very popular for many industrial applications as well.

**About the company:** Darling pumps with its expertise of over 35 years, has been the Chief architect of submersible pump revolution in India, with its every new & innovative product line it has set a benchmark for other to follow and has thus always kept one step ahead of the market.

### Contact:

Darling Pumps Pvt Ltd, Indore  
Mobile: 099819 92833  
Email: dpplin@darlingpumps.in



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## COMPACT SPEED VECTOR DRIVES-

Confident Automation offers compact speed vector drives.

### Features:

- These are manufactured under rigid quality norms in keeping with global quality standards and can be availed for AC drive series for sensor-less vector and closed-loop vector.
- These vector servo drives provide precision position and vector control attributes.
- Other features include: easy tuning; easy vector control; longer serving life.
- The wide array of products offered encompasses AC and DC drives, servo drives, motors and logic controllers.

**About the company:** Established in 2003, Confident Automation is engaged in manufacturing and supplying a comprehensive array of industrial automation equipment. The offered products have applications in various automation industries are available in various technical specifications.

### Contact:

Confident Automation, Coimbatore  
Tel: 0422-3218099  
Mobile: 09362264242, 09843264242.  
Fax: 0422-4348327  
Email: confidentautomation@gmail.com



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## VIBRATORY MOTORS

NBE Motors offers a wide range of vibratory motors.

### Features:

- These motors are used in a wide range of applications like scanners, medical instruments, control sticks and various other machines.
- Its features include: maximum throughput; superior functionality; less power consumption; high efficiency.
- Its range is 0.125 HP to 20.0 HP, three phase supply and 0.10 HP to 1 HP single phase supply.
- Its applications include conveying, compacting, emptying, cleaning, testing and feeding of all kinds of products; loosening or separation of bulk materials; screening, dewatering, filtration, crushing, etc.
- The range of products includes AC motors, gear motors and coolant pumps.

**About the company:** Founded in 2005, NBE Motors Pvt Ltd, an ISO 9001: 2008 certified company, is a prominent manufacturer, supplier and trader of a range of electric motors and pumps.

**Contact:**  
NBE Motors Pvt Ltd, Ahmedabad  
Mobile: 09824035406  
Email: info@newbharat.com



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## VIBRATORY MOTORS - THREE PHASE

Anup Industries offers a quality range of three phase vibratory motors.

### Features:

- The firm deals in the finest quality range of 'MMIRACAL' three phase vibratory motors, known for flawless design and optimum performance.
- These products are known for their flawless design and optimum performance.
- Client's needs are met skilfully and precisely.

**About the company:** Established in 1988, Anup Industries manufactures and supplies an optimum quality range of electric vibro motors, gear motors, industrial grinders, single phase motors, coolant pumps, flange motors, induction motors, textile auto head motors, vibro shifters, brake motors, torque motors, motorised blowers, cooling tower motors, polisher motors, etc.

### Contact:

Anup Industries, Ahmedabad  
Mobile: 09825310874, 09429716864  
Email: anupind88@gmail.com,  
info@anupind.in



Scan the QR Code for instant product enquiry



## LEVEL LEAF FILTER

Sharpex Filters (India) Pvt Ltd offers a wide range of level leaf filter.

### Features:

- Sharpex level leaf filters are used for polishing filtration in post filtration stage to trap the fine particles from the filtrate of main filter.
- The filter elements have filter surface at both the sides and hence this filter becomes very compact even at higher filtration areas.

**About the company:** In the year 1993 Sharpex Agro Process (India) Pvt Ltd was incorporated to takeover Sharpex Agro Process Engineers, a proprietorship firm established in the same year with Mr.Satish Vasudeo Khadke as the Proprietor. In year 2002 the name was changed to "Sharpex Filters (India) Pvt. Ltd." With a rich experience of 12 years of working with the largest engineering establishment, (i.e. Larsen & Toubro Ltd.) Mr. Satish V. Khadke has introduced Process Filtration Equipments which are mainly import substitute to Edible Oil, Chemical, Pharma, Fertilizer Industries. Due to the best quality & best services offered, Company over the years are able to create a strong brand name as "SHARPLEX" in the process industries.

### Contact:

Sharpex Filters (India) Pvt Ltd, Navi Mumbai  
Mobile: 09136921232  
Email: sales@sharpexfilters.com,  
svk@sharpexfilters.com



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India@nord.com, [www.nord.com](http://www.nord.com)

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## DEGREASER CLEANER

Novel Surface Treatments offers a wide range of degreaser industrial cleaner.

### Features:

- Offered degreaser is gaining huge acclamation for its fast removal properties that is widely acclaimed in the industry.
- Its features include: aqueous & has water pH; ecofriendly – no ozone depletors; replaces tyrichloroethylene (TCE) etc Haz. Solvents; removes wide range of cutting, stamping, quenching, lubricating oils, grease, buffing compound; used for steel, aluminium brass, copper, nickel, tin, stainless steel etc many metals and non-metals; prevents corrosion/rust; used in immersion, ultrasonic, spray-in-air or spray-under-immersion and hand wipe application method.



**About the company:** Established in 2001, Novel Surface Treatments, is a manufacturer of surface technology products. The company developed the VK range of chemicals for fumeless stainless steel pickling passivation and cleaning. IIT Bombay in compliance with industry quality standards.

### Contact:

Novel Surface Treatments, Mumbai  
Mobile: 09322246307, 09172750225  
Email: marketing@novelindia.com

Scan the QR Code for instant product enquiry



## INDUSTRIAL SOLAR BATTERIES

Inova Battery manufactures and supplier of a wide range of industrial solar batteries.

### Features:

- These are portable energy sources which can be transported conveniently anywhere; helps in reducing electricity bills and the pollution footprint.
- Some key benefits of the products are such as precise design; efficient; high functionality.
- The material used in production is acquired from specialised sellers after strict testing for flawlessness and efficiency.



**About the company:** Established in 2007, Inova Battery is a manufacturer and supplier of a large array of products including inverter batteries, UPS batteries, tubular batteries, solar batteries, automotive batteries and electric car batteries, manufactured using supreme class basic materials and contemporary tools and machinery. Acknowledged for their efficacy in various residential and commercial sectors, these products are appreciated for their precise dimensions, ruggedness, fine finish and reliability.

### Contact:

Inova Battery, Mumbai  
Mobile: 09987076192, 09769688180  
Email: ganesht75@gmail.com

Scan the QR Code for instant product enquiry



## SURFACE TREATMENT

Rishi Laser offers a wide range of surface treatment.

### Features:

- Modern surface-coating techniques are used to make sure that products look aesthetically good and last long in sheet steel fabricated assemblies.
- There are various methods of surface coating like power coating, epoxy painting, or zinc plating; a sheet steel assembly surface needs to be prepared for coating as there are several infirmities and impurities that can act as a hindrance for protective coating.
- In order to ensure a good bonding between the metal and the protective coat, various methods like shot blasting and liquid dipping are used, depending on the type of material.
- Sandblasting is propelling very fine bits of sand at high velocity to clean or etch a surface; sand blasting process helps remove oil and rust layers on the surface of the product, which ensures quality in surface coating; seven-tank cleaning is a chemical process.
- Oils and greases are removed in weak alkali or neutral detergent solutions and the surface is etched to remove heavy oxides.



**About the company:** Rishi Laser Ltd is a manufacturer, service provider and supplier of CNC lasercut, shearing, CNC bending, etc. .

### Contact:

Rishi Laser Ltd, Pune  
Mobile: 09881730353  
Email: rajendra.m@rishilaser.com

Scan the QR Code for instant product enquiry



## SOLAR PANEL

Focusun Energy Systems offers a wide range of thermal solar panel.

### Features:

- For the purpose of maintaining this reputation, they engage in using the finest raw materials and modern machines, in accordance with the industry set norms and guidelines.
- The offered product is widely acclaimed for its superior performance and unmatched service life.
- Some key advantages of the products are such as longer service life; impeccable performance; and compact design.



**About the company:** Established in 2000, Focusun Energy Systems is a manufacturer and supplier of high quality solar products including solar water heaters, solar heaters and solar power plants.

### Contact:

Focusun Energy Systems, Coimbatore  
Tel: 0422-2628979, 2591069  
Mobile: 09842291069, 09842216190  
Email: info@focusunsolar.com

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We manufacture O-rings in various sizes and colours from various types of rubber like FKM or Viton, Silicon, EPDM, NBR, Neoprene, SBR & Natural. The hardness rating on a Shore A scale for O-rings can be 30 ~ 95 Durometer. Exact specifications should be clarified by our engineers, as chemical and physical properties of an O-ring can differ based on manufacturing technique. When custom O-rings are required, the width or Thickness, Insider Diameter, and Outside Diameter are important to consider.



**FACTORY :** Plot No. 19, Suvidha Indl. Estate, Near Thakkar Sons & KLT Automotive (Chassis Divn),  
Village - Vevoor, Palghar (East), Dist Palghar - 401 404 (Maharashtra)



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## KNOCKOUT CYLINDER

Fluidtec Controls offers a wide range of hydraulic knockout cylinder.

### Features:

- These are engaged in manufacturing extensive range of knock out type custom build hydraulic cylinders from 1 ton to 100 ton capacity.
- Furthermore these are manufactured in compliance with client requirement and can be delivered within stipulated time frame.
- Offered hydraulic cylinders are one of the hugely popular products of our gamut of products.
- Its specifications include: trunnion mountings-bore diameters vary from 40 to 300 mm; hydraulic power stroke varies from 50 mm to 350 mm; capacity range: from 1 ton to 100 ton.

**About the company:** Created in 2002, Fluidtec Controls is a manufacturer, supplier, distributor, service provider and trader of hydraulic power packs, cylinders and pumps, etc.

### Contact:

Fluidtec Controls, Chennai

Tel: 044-26250854

Mobile: 09841727799, 09087627799

Email: fluidteccontrols@gmail.com



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## BAG FILTER HOUSING

Filtereno Engineering Co offers a wide range of bag filter housing.

### Features:

- Facilitated by technically advanced process, they are presenting a distinguished collection of bag filter housing.
- They offered range is manufactured by utilizing optimum quality components and advanced technology by our skilled professionals. In order to ensure quality, these filters are rigorously tested on various parameters. In tune with international standard, we provide this filter in various specifications as per the ever-evolving requirement of our clients.
- Its features include: single bag to 5 bags; dome, swivel and flange type; rugged construction; high functionality; long service life.

**About the company:** Incorporated in 2011, Filtereno Engineering Co, is a manufacturer and supplier of vessel and tank. The company provides a diverse equipment including liquid filtration system, liquid manufacturing section and powder section products.

### Contact:

Filtereno Engineering Co, Mumbai

Tel: 022-65618854, 65618800

Mobile: 09819241506, 08452917256

Email: info@filtereno.com



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## LEAF FILTER

Sharplex Filters (India) Pvt Ltd offers a wide range of level leaf filter.

### Features:

- Sharplex level leaf filters are used for polishing filtration in post filtration stage to trap the fine particles from the filtrate of main filter.
- The filter elements have filter surface at both the sides and hence this filter becomes very compact even at higher filtration areas. The filter medium can be cloth or paper. The filters are available from 2m<sup>2</sup> upto 15m<sup>2</sup>.

**About the company:** In the year 1993 Sharplex Agro Process (India) Pvt Ltd was incorporated to takeover Sharplex Agro Process Engineers, a proprietorship firm established in the same year with Mr. Satish Vasudeo Khadke as the Proprietor. In year 2002 the name was changed to "Sharplex Filters (India) Pvt. Ltd." With a rich experience of 12 years of working with the largest engineering establishment, (i.e. Larsen & Toubro Ltd.) Mr. Satish V. Khadke has introduced Process Filtration Equipments which are mainly import substitute to Edible oil, chemical, pharma, Fertilizer Industries.

### Contact:

Sharplex Filters (India) Pvt Ltd, Navi Mumbai

Mobile: 09136921232

Email: sales@sharplexfilters.com

ccoscomharplexfilters.com



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## FILTRATION UNIT

Smridhi Manufacturing Company Private Limited offers a wide range of oil filtration unit.

### Features:

- The Micron filtration unit is a multi-purpose fluid cleaning and transfer rig, it is available in different models.
- The system can be used to clean most mineral oils such as hydraulic, gear and transmission oils, diesel type fuels and many soluble oils and fluids. In its static form, it can be permanently connected to large fluid reservoirs where the machines and engines are in constant use.
- Its features include: removes contaminant particles down to less than 0.5 microns; prevents corrosion of components; reduces the incidence of sticking & worn value components; end to the need to change hydraulic fluids frequently; simple to operate; used in industries world-wide; can be used with virtually any petroleum/synthetic based oil.

**About the company:** Established in the year 1997, Smridhi Manufacturing Co Pvt Ltd has made its distinct position in the market in a short span of time.

### Contact:

Smridhi Manufacturing Company Private Limited, Delhi

Mobile: 09868265775, 09868103259

Email: micronfilters@yahoo.com



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## SENSOR RELAY AND ACTUATOR TESTER

Ampro Testing Machines offers a wide range of automobile sensor relay and actuator tester.

### Features:

- With a firm commitment to quality, they are presenting to their clients a vast range of automobiles sensor relay and actuator tester.
- The given product is designed by making use of best grade material & modernizes technology in compliance with the set norms of industry.
- This product is tested against various parameters of quality to supply the flawless supplies.
- Its features include: sturdy design; high operational fluency; excellent functionality.

**About the company:** Ampro Testing Machines established our organization in the year, 2003 under the name, Ampro Testing Machines, as a prime manufacturer, supplier, trader and exporter of automobiles and car diagnostic equipment. an array of other products.

### Contact:

Ampro Testing Machines, New Delhi  
Tel: 011-25775600, 65361122  
Mobile: 09811890900, 07060631827.  
Fax: 011-47618444.  
Email: info@amproindia.com



Scan the QR Code for instant product enquiry



## POWER PACK

Patson Hydrotech offers a wide range of hydraulic power pack.

### Features:

- The provided power pack is used in the applications that require automation and pressure controls.
- Offered power pack is precisely designed by our experts using excellent quality material. This entire range of power pack is tested on quality provisions so as to dispatch a flawless range. These are totally leakage free to save hydraulic oil in all manner.
- These professionals give their best possible services to us with immense professional approach and dedication to achieve the specific goal of the firm.
- Its features include: easy to maintain; high functionality; excellent pressure controls; leakage free.

**About the company:** Patson HydroTech, created in 2011, is a manufacturer and supplier of a range of hydraulic power packs, hydraulic cylinders, car parking lifts, special purpose hydraulic lifts, and manifold blocks. .

### Contact:

Patson Hydrotech, Ahmedabad  
Tel: 079-23287207  
Mobile: 09913960362, 09913942727  
Email: info@patsonhydrotech.com



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## FULL ELECTRIC STACKER

New National Hydraulics offers a wide range of Fk series full electric stacker.

### Features:

- Being a client-centric organization, they are engaged in providing Fk Series, full electric stacker. Their skilled professionals manufacture this stacker from superior class components and sophisticated technology in accordance with predefined industry standards.
- This stacker is used for handling and stacking of pallets. Ahead of its final dispatch, this stacker is duly inspected by our quality controllers on several parameters of quality.
- Its features include: heavy-duty design with top quality mast construction; straddle leg design suitable for two faces or low pallet; powerful drive wheel and power unit.

**About the company:** New National Hydraulics, Noida was established in the year 1986. They are engaged in manufacturing and trading and also in exporting a quality range of material handling equipments & construction equipments.

### Contact:

New National Hydraulics, Noida  
Mobile: 09811553201, 08506070450.  
Fax: 0120-4215072.  
Email: nationalhydraulics@gmail.com,  
info@nationalhydraulics.co.in



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## TWO POST LIFT WHEEL BALANCER

Sunrise Instruments Private Limited offers a wide range of wheel balancer-two post lift.

### Features:

- This wheel balancer-two post lifts are widely demanded in the market. Engaged in manufacturing of electro mechanical two post lift, which has a high capacity to carry weight.
- They have designed this model as per the industry guidelines, these are developed from high quality material.
- They ensure best performance of all their products as they are engineered under close supervision of their experts, while they are very easy to operate.

**About the company:** Sunrise Instruments Private Limited is professionally managed organization actively engaged in manufacturing & exporting of a wide range of electronic instruments & systems, digital tyre inflators, GPS tracking systems, solar systems, residential solar water heaters, domestic solar water heaters, industrial solar water heaters, commercial solar water heaters, etc.

### Contact:

Sunrise Instruments Private Limited, Pune  
Tel: 020-65236686, 65238147.  
Mobile: 09890066773, 09822493914.  
Email: info@futuressi.com



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# S100

CNC UNIVERSAL INTERNAL CYLINDRICAL GRINDING MACHINE



The S100 CNC universal internal cylindrical grinding machine offers the proven STUDER quality and highest precision in standard internal cylindrical grinding operations at an excellent price-performance ratio. It covers the wide range of internal, surface and external grinding applications. This makes it the ideal universal internal cylindrical grinding machine for the entry-level segment.

It has a workpiece length including clamping device of max. 550mm (21.65") and a workpiece diameter of max. 420 mm (16.53"). Many suitable workpieces can be found in the compressor, hydraulic, machine tool, aerospace and tooling industries.

United Grinding India LLP. No. 487, D1 & D2A, 4<sup>th</sup> Phase | KIADB Main Road |  
Peenya Industrial area | 560 058 | Bangalore India | Phone +91 80 30257 600 |  
sales.in@grinding.ch | www.grinding.ch

 **STUDER**

## HYBRID CAR BATTERY

Z-Power Impex Pvt Ltd offers a wide range of hybrid car battery.

### Features:

- Z-Power introduces its very own, very unique, very special.
- Extra thick grid with unique radial design keep better contact with active materials pasted onto it. Central Lug construction adds extra rigidity to the overall construction, while calcium mix alloy keeps its vaporization process at its minimum level. Battery container's unique internal design makes it most vibration free with anti gassing technology to last longer. .
- The battery appears as maintenance free, though the advantage of this design is that it can be maintained by topping up distilled water to it and enhances further life of the battery.

**About the company:** Z-Power Impex is a manufacturer, wholesaler, importer, and exporter of a wide range of batteries. These batteries are developed by the experts and meets international quality standards.

### Contact:

Z-Power Impex Pvt Ltd, Zirakpur  
Mobile: 09517803304, 09216235139  
Fax: 0172-5002138  
Email: [info@zpowerbatteries.com](mailto:info@zpowerbatteries.com)



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## TRACTION 2V BATTERIES

Gem Batteries (P) Ltd offers a wide range of traction 2V batteries.

### Features:

- These batteries are designed for remarkable performance, supplied in factory charged condition.
- The batteries are also supplied in charged condition as per the requirement.
- Positive spine grids produced on high pressure die casting machines gives defect-free grid with fine grain Results in excellent corrosion resistance and long life.
- High acid reservoir resulting in reduced need for water top- up even in extreme environmental conditions.

**About the company:** Gem Batteries is engaged in manufacturing of automotive, inverter and tubular batteries under the brand name Gem. The company invests substantially in creating path-breaking technologies. It is an ISO 9001-2000 certified company that has pioneered, implemented and introduced some of the most mission-critical solutions in the battery, inverter and UPS industry.

### Contact:

Gem Batteries (P) Ltd, New Delhi  
Tel: 011-40645555 Fax: 011-40645556  
Email: [info@gembatteries.com](mailto:info@gembatteries.com)



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## EMERSON NETWORK UPS

Offcom Systems offers a wide range of emerson network UPS.

### Features:

- The emerson UPS (uninterruptible power system) offers internal batteries, optional external batteries, and internal bypass capability with on-line design.
- It continuously conditions and regulates its output voltage. In case of power disturbances due to blackouts, brownouts, sags, surges or noise interference, the emerson UPS will protect your connected equipment and keep power clean and stable. There will be no break when transferring to battery. Its features include: On-line design means zero transfer time from external to internal power. When utility power fails, your critical load remains supported by a seamless flow of power.

**About the company:** Offcom Systems is an ISO 9001:2008 certified company engages in distribution and supply of UPS. The company has a team of 100 dedicated individuals.

### Contact:

Offcom Systems Pvt Ltd, Noida  
Tel: 0120-4278491, 4278492  
Mobile: 09811205605, 09873353704  
Email: [info@offcomindia.com](mailto:info@offcomindia.com),  
[sales@offcomindia.com](mailto:sales@offcomindia.com)



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## ALUMINUM HEAT EXCHANGER

Thermal Energy Systems provides high quality aluminum heat exchangers.

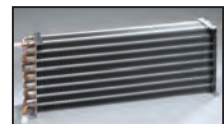
### Features:

- These 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 are available in 12 tonnes, 16 tonnes, 24 tonnes, 32 tonnes, 40 tonnes sizes.
- They claim to have superior thermal efficiency; high temperature and pressure resistance; and 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 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](mailto:thermalenergysystems@gmail.com)



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HOME OF  
CLAMPING



## ECONOMICAL, PRECISE, QUICK

- THE AMF ZERO-POINT SYSTEM

By using modern AMF-zero-point systems, optimize fixture and workpiece changeover in production, correspondingly reduce set-up times on the machine and so save money!

The benefits of zero-point clamping technology are obvious:

- ▲ Increase in machine run-time
- ▲ Very fast workpiece or fixture changeover
- ▲ High repeatability
- ▲ A uniform interface for all machines
- ▲ Positioning and clamping in a single step

Numerous advantages speak for themselves and make the AMF zero-point system a technology that revolutionizes the zero-point clamping market.



**ANDREAS MAIER Workholding Technology Pvt. Ltd.**

(Subsidiary of : AMF - GERMANY)

# 116, 2nd Cross, NHCS Layout, Basaveshwaranagar, BENGALURU-560079, INDIA

Phone: +91 80 2323 8444 E-mail: amfindia@amf.de Web: www.amf.de

## COOLING BLOWERS

Air Mech Industrial Technologies offers BCB series cooling blowers manufactured in a wide range to provide various combinations of airflow and pressure.

### Features:

- The BCB series of fans aid better airflow/movement through the system.
- These are Developed in state-of-the-art facilities with international quality standards, ensuring reduced strain in the working environment, protecting people from harmful dust, smoke, fumes and gases produced during various operational processes.
- Manufactured with high-grade aluminium alloys and stainless steel, each unit of fan houses a cross-flow impeller that provides a high amount of air movement and low static pressure.

**About the company:** Air Mech Industrial Technologies provides complete solutions for good and efficient working environment in various industries.

### Contact:

Air Mech Industrial Technologies,  
DistPalghar  
Mobile: 092222-20996.  
Email: info@airmech.in



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## CLUTCH-DRIVEN FAN

Ziehl-Abegg India Pvt Ltd offers a wide range of clutch-driven fan.

### Features:

- ZIEHL-ABEGG's clutch-driven fans are available in different steel grades - from mild steel to high-alloy stainless steel.
- The support plate, or trough, is available in square or rectangular formats, depending on the specifications of the plant. In modular design with mounted and adjustable inlet nozzle or as motor impeller with inlet nozzle loose.
- The installation depth of the support trough is freely selectable. Inside the fan is a high performance impeller with backward curved blades.

**About the company:** Ziehl-Abegg India, incorporated in 2007, is registered as subsidiary of a foreign company. A patent application has been filed for the new development. Since the new fan has standard connection sizes (but an improved airflow) customers can upgrade very quickly from the current products to the more efficient ZAVblue.

### Contact:

Ziehl-Abegg India Pvt Ltd, Dist Pune  
Tel: 02135-679679  
Mobile: 07722014250, 09923333604  
Email: vikas.kundra@ziehl-abegg.in,  
indiaoffice@ziehl-abegg.in



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## PACKAGE BOILERS

Real Boilers Pvt Ltd offers a wide range of package boilers.

### Features:

- They manufacturing and exporting of all types of fully wetback wood package Boiler. Their heating systems come with the latest technology with high efficiency, minimum maintenance and user-friendly attributes.
- The company is able to supply application support products with full technical back up on all aspects of heating systems.
- Its features include: Fully wetback steam boiler; large water holding capacity & steam space, to ensure steady supply at fluctuating loads; large grate area & more heating surface facilitate quick steaming; adequate manhole, mud hole for easy maintenance from water side; high efficiency & low stack temperature; factory assembled & tested.

**About the company:** Established in 2002, Real Boilers is a manufacturer and supplier of a wide range of premium quality industrial boilers, vessels and fabrication service. industrial boilers.

### Contact:

Real Boilers Pvt Ltd, Ahmedabad  
Tel: 079-26577222 Mobile: 09825318255  
Email: ibrboiler@gmail.com



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## CAR BOTTOM FURNACE

Heat Shield Technologies offers a wide range of car bottom furnace.

### Features:

- Car bottom furnace (electrical heated) is used for heat treatment applications like annealing, stress relieving, hardening, tempering and aging.
- Features of these products are high tensile strength, dimensional accuracy, high performance, temperature uniformity, high-powered re-circulation fans, etc. They can be easily loaded or unloaded from either side and can handle very high load weight & large work piece sizes.
- These furnaces are manufactured using high quality raw material with the latest technology modern tools and machines.
- These are available in numerous shapes, sizes, designs and patterns.

**About the company:** Established in 2011, Heat Shield Technologies is an eminent name engaged in the business of manufacturing, supplying and servicing a range of industrial furnaces, industrial oven, material handling conveyor, and JIB crane.

### Contact:

Heat Shield Technologies, Kolhapur  
Mobile: 09326092193, 09423857138  
Email: heatshieldtechnologies@yahoo.com



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# ALCALSOL PREMIUM GREASE

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**CONTINUOUS  
CASTER**



**HOT  
ROLLING MILL**



**HOT  
STRIP MILL**



**PAPER MILL  
CALENDAR ROLLS**

## APPLICATIONS



Recommended for all heavy-duty steel plants and engineering applications where resistance to high temperatures, loads, humidity, and water is critical.

Typically recommended for continuous casters, couplings, run-out roll bearings in steel plants, CV joints, wheel bearings in automobiles, conveyors, rock crushers in mining and bearings, and spindles in pulp and paper mills.





## Cup Filling Machine/ ICE Cream Filling Machine

ROTARY CUP FILLING MACHINE.

(1200/2000/3000 Cups per hour)

Cup filling machine suitable for filling liquids like Dahi/Lassi/Milk/Juice/Yogurt/Shrikhand and Non Carbonated Beverage.

Functioning-Manual, Semi-Automatic, Fully Automatic.

ROTARY ICE CREAM CUPS/CONE FILLING MACHINE  
(UP TO 2400 CONES PER HOUR)

Functioning-Semi-Automatic, Fully Automatic



## Bottle/Matka Filling Machine

Customized jar and cup filling machine for ( 200-1000 ml ) Automatic and semi automatic machines with washing and scrubbing of bottles and jars for curd and ghee. Matka filling machine for 1 Kg to 15 Kg variants with filling and sealing.



## Pasteurization System

Pasteurization system ranging 300 LPH to 20,000 LPH Suitable for Milk, cream, dahi, paneer, juice & beverage. This system is offered with tubular holding ranging from 20 sec to 10 min depends on application. It is also provided precise output temp. control of the product



## Plate heat exchanger

PHE used for heating/cooling of milk, cream, ice cream mix, sugar syrup, juice mix, beverages, soda water, pharma chemicals & food products



## Clean-in Place

Clean-in Place (CIP) system used to clean the pipelines & equipment using circulation of hot water, lye & acid after every shift of processing products.



## Hot water generation system

For Supply hot water at precise temp. Used for heating of pharma solution, milk, cream, juice, sugar syrup, beverage, chemical solution, swimming pool & hot water supply to hotel & hospital.



## Dimple Jacketed tank & Hemispherical Kettle's

Used for heating/cooling of dairy, beverage, food, pharma products with regular agitation with optional process automation for maintaining the temp of fluid

## Dairy Plant



## Juice & Beverages Machinery



## Pharmaceuticals Processing Plant



## Our Clients



B-38, Sector - 60, Noida (U.P.) - 201301, India

Ph.: +91-120-2580507 / 2584659 | Mobile: +91-93505 45986 / 99719 34240

E-mail: info@vedengineering.com / sagar@vedengineering.com

Web: [www.vedengineering.com](http://www.vedengineering.com)





## Manufacturers of wide range of Industrial fans

- Axial Fans ► External Rotor Motors ► Centrifugal Fans ► DC & EC Fans  
► Single & Double Inlet Centrifugal Blowers ► Forward & Backward Curved Blower Fans

### Industries Served



Commercial  
Refrigeration



Railways



Machinery & Equipments



HVAC



Network & Telecom



Electricals &  
Electronics



#### Axial Flow Fans

Size : Ø200mm - Ø630mm  
Air Flow : 450M<sup>3</sup>/hr to 11785M<sup>3</sup>/hr



#### Inline Duct Fans

Inlet Size : Ø100mm - Ø400mm  
Air Flow : 300M<sup>3</sup>/h to 4200M<sup>3</sup>/hr



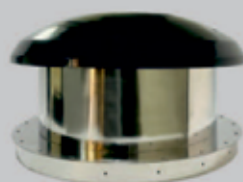
#### Single Inlet Blower

Fan Size : Ø120mmx30mm to  
Ø280mmx115mm  
Air Flow : 140M<sup>3</sup>/hr to 2750M<sup>3</sup>/hr



#### Double Inlet Blower

Fan Size : Ø133mm x 120mm to  
Ø240mm x 280mm  
Air Flow : 400M<sup>3</sup>/hr to 4400M<sup>3</sup>/hr



#### Roof Extractor

Fan Size : Ø280mm - Ø 400mm  
Air Flow : 500-4200 CMH



#### Axial Flow Fans Long body

Fan Size : Ø300mm - Ø900mm  
Air Flow : 2600M<sup>3</sup>/hr to 16000M<sup>3</sup>/hr



#### Polypropylene Blowers

Fan Size : Ø200mm - Ø315mm  
Air Flow : 500M<sup>3</sup>/hr to 4260M<sup>3</sup>/hr



#### Flame Proof / Non Flame Proof Extended Shaft Dual Inlet Blower

Size : Ø108mm - Ø250mm  
Air Flow : 900M<sup>3</sup>/hr to 7000M<sup>3</sup>/hr  
Also available single side type



#### Wall Mounted

Fan Size : Ø190mm - 400mm  
Air Flow : 500-4000 CMH



#### Fresh Air Fan with HEPA filter

Fan Size : Ø200mm - Ø400mm  
Air Flow : 375M<sup>3</sup>/hr to 2050M<sup>3</sup>/hr  
(UV-C LAMP AVAILABLE)



#### Regenerative Blower

Power Rating :  
90 watts - 750 watts  
Air Flow : 16M<sup>3</sup>/hr to 145M<sup>3</sup>/hr



#### Cabinet Fan

Fan Size : Ø250mm - Ø800mm  
Air Flow : 690M<sup>3</sup>/hr to 17100M<sup>3</sup>/hr

## EYYANI ELECTRIC MACHINES PVT. LTD.

An ISO 9001-2015 Company

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

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e-mail: sales@eyyani.com / eyyanieletric@gmail.com Website: www.eyyani.com

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Hyderabad: +91 98 489 33 902 / 79 814 290 82 Ernakulam: +91-94464 36315 Dubai/RAK: +971563874050

## 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. The company also offers assortment of boilers having superior radiation heat transfer area.
- 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 1989, Akshaya Enterprises is a manufacturer, exporter and supplier of industrial processing machines, equipment, and plants. These find wide applications across garments, dairy, textile, power, processing equipment, erection work for boilers and vessels, cooling towers, etc.

### Contact:

Akshaya Enterprises, Coimbatore  
Mobile: 09629968102  
Email: balanakshaya@yahoo.com



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## FBC BASE THERMIC FLUID HEATER

Heat Max Engineering offers a wide range of Fbc base thermic fluid heater.

### Features:

- There are numerous ways in which thermal fluid systems are superior to other heating systems such as hot water or steam. As market leaders in the field of heat transfer thermal energy is able to offer the Maxtec range of advanced design heaters in addition to complete, highly efficient systems designed by an experienced staff of qualified engineers and technicians.
- Its principal advantages of a thermal fluid system: high thermal efficiency and economical operation; temperatures up to 380 degrees centigrade; no water treatment is required; internal corrosion and scale are eliminated; no risk of freezing during winter; no pipe corrosion; bellows sealed valves and simple burner components virtually eliminate maintenance.

**About the company:** Heat Max Engineering is a manufacturer of industrial thermic fluid heater, industrial steam boiler and hot water generators.

### Contact:

Heat Max Engineering, Ahmedabad  
Mobile: 09824052714  
Email: hmevipul@yahoo.com



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## AXIAL FLOW FANS

Vintech Air control Engineers & Consultants offers a wide range of axial flow fans.

### Features:

- These fans are provided with high volume and low-pressure application with high efficiency.
- The fan sizes ranges from 300 mm  $\phi$  to 1600 mm  $\phi$  with a capacity up to 100,000 CMH with different materials of construction of blades, like aluminium, GRP, polypropylene and stainless steel, to suit different applications.
- These fans also suit applications like fixed die cast or moulded blade design and variable pitch bladed design, direct drive, V-belt drive, bifurcated type roof extractor type for high rise concrete roofs like power plants, etc, as power ventilators.

**About the company:** Vintech Air control Engineers & Consultants, an ISO 9001: 2008 certified company, offers a range of Axial Flow Fans. The company has a strong technical background combined with vast field experience in industrial fans.

### Contact:

Vintech Air control Engineers & Consultants, Chennai  
Tel: 044-23776221, 23776821, 65631221  
Mobile: 09840971221, 09444138884  
Email: vintechchennai@vsnl.net



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## FURNACE OIL TANK SUCTION HEATER

Vacunair Engineering Co Pvt Ltd offers a wide range of furnace oil tank suction heater.

### Features:

- Furnace oil have viscosity of 1500 Sec Redwood No. 1 at 100 Deg F with a fall in temperature this viscosity goes further up making oil to flow extremely difficult.
- To meet this demand tank suction heaters have been designed. These heaters are installed at little above the tank bottom.
- The beauty of the heater is that it does not heat entire tank filled with oil - it only heats the oil that flows through the heater thus cutting down the kilowatt(KW) rating which otherwise may require to heat entire oil tank. The operation is smooth and safe.

**About the company:** Vacunair Engineering supplies its product to a broad range of industries, including petroleum, gas, pharmaceutical, chemical, processing and power generation. The products include compressors, vacuum pumps, blowers, pneumatic conveying systems, burners, heaters for processes and other types of waste heat applications.

### Contact:

Vacunair Engineering Co Pvt Ltd, Ahmedabad  
Tel: 079-22910771-2-3  
Email: info@vacunair.com



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**Ms. Pooja Narain** ☎ +91 97311 57563 ○ [pooja.narain@eplan.in](mailto:pooja.narain@eplan.in)

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## VACUUM PRESSURE TURBINE BLOWERS

Promivac Engineers offers a wide range of vacuum pressure turbine blowers.

### Features:

- Based on revolutionary innovation, It is comparatively quieter, lighter and practically maintenance & oil free substitute of the noisy, bulky, oily and monstrous type of conventional air blowers, for the applications where large and forceful suction and pressure capabilities are required in agitation of chemicals.
- Since these blowers are compact, maintenance free and need no oiling at all, these are most suited for mounting inside the machines meant for electro plating, dust collecting, printing, paper handling, Vacuum packaging, pneumatic conveying and hence are quite popular with OEM.

**About the company:** Promivac Engineers is a manufacturer of industrial pumps, established in 1981. The company produces various types of vacuum, pressure and chemical process pumps, plants and systems, which cover almost all needs and applications.

### Contact:

Promivac Engineers, New Delhi  
Tel: 011-23281082, 23273965, 23246398  
Email: promivac@vsnl.net



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## STREET LIGHT BATTERIES

Telex India Industries offers a wide range of solar street light batteries.

### Features:

- Telex as a ruling solar street light battery manufacturer provides total energy storage system. In solar applications batteries have to meet the requirement of unstable grid energy, heavy cycling, and irregular recharging.
- They are providing wide varieties of batteries fitted to meet solar panel requirements.
- Its manufactures lightweight, compact, rugged, and a dependable batter system used for solar panels. They provide batteries for small businesses and heavy businesses and homes that can store the sun's energy in order to deliver clean, reliable electricity when the sun isn't shining. Use our solar battery in electric vehicles and create a zero emission lifestyle.

**About the company:** Telex India Industries engages in the business of creating, improving, and innovating the advanced batteries and related products to keep pace with the times.

### Contact:

Telex India Industries Pvt Ltd, New Delhi  
Mobile: 09810087677, 09721326000  
Email: info@telexindia.com



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## GOLF CART BATTERIES

Shiraz C Lalkaka Enterprises offers a wide range of golf cart batteries.

### Features:

- Golf cart batteries manufacturers & golf cart batteries manufacturers suppliers golf-cart-battery. The community of Electric vehicle users is growing rapidly and Exide has been constantly contributing to the growth.
- The Exide 6C225 is the latest development - a Blen of improved high density paste formulation and unique glass mat separator for better positive active material retention.
- Easy accessibility is ensured through 4 regional offices, 24 branches, 30 Exide Power centers and over 500 industrial dealers spread all over the country. Exide offers total solution including installation, operation and maintenance through experienced engineers.

**About the company:** Shiraz C Lalkaka Enterprises are providers of reliable service to our clients in Mumbai. In 1986, the company grew as distributors of standard batteries for the auto batteries segment.

### Contact:

Shiraz C Lalkaka Enterprises, Mumbai  
Tel: 022-23743622, 65804922, 23745636  
Mobile: 09821307551, 09260589838  
Email: sclalkaka@vsnl.net



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## HIGHER CAPACITY OFFLINE UPS

Aatous International Pvt Ltd offers a wide range of higher capacity offline UPS.

### Features:

- It is one of the renowned manufacturers, exporters and suppliers of UPS that has gained wide appreciation for its quality standards.
- Constructed using qualitative grades of raw material these UPS provide continuous power supply in case of power cuts and help in controlling power supply of industrial and residential sectors. Their high capacity online and offline UPS have gained wide appreciation for high load capacity, low power consumption and reliability.
- They export to many countries like Bangladesh, Srilanka, Afghanistan, Algeria, Angola, Benin, Botswana, Central African Republic, cameroon, Chad, Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Saudi Arabia, United Arab Emirates, Yemen.

**About the company:** Aatous International is a prominent name in manufacturing industries, making power back-up systems like tubular batteries, traction batteries, automotive batteries.

### Contact:

Aatous International Pvt Ltd, Navi Mumbai  
Mobile: 09324045234, 9819842857  
Email: aatousinternational@yahoo.co.in



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E-mail: eliteindia@yahoo.com, frictionelements1@gmail.com www.frictionelements.com

**We Service and Manufacture all types of Clutches and Brakes**

# ELITE MATERIAL HANDLING SOLUTION



Airbag Dockleveller



## ELITE MATERIAL HANDLING CO.

'Elite House', # 16, 3rd Cross, 13th Main, HAL 2nd Stage, Indiranagar, Bangalore - 560008, INDIA

Ph: 080-25253135 / 080- 25216561, Mobile: 09343093181, 09886122117, Fax: +91-080-25253135

Email: eliteindia@yahoo.com, elitematerialhandling@gmail.com, Web: www.elitematerialhandling.com

**We Service & Manufacture all types of Material Handling Equipment**

## ONLINE UPS

Renutron Power Solutions India Pvt Ltd offers a wide range of online UPS.

### Features:

- Renutron make on-line UPS are designed at our in house R&D Dept. for indigenous power conditions.
- Renutron uses latest technology dsPIC controllers. RENUTRON UPS are more safe, as it uses built in isolation transformers, unlike some of the MNC UPS.
- It also does NOT require any power conditioning device such as input cut out or isolation transformer / stabilizer or an additional battery charger.
- All UPS systems manufactured by RENUTRON has minimum field proven design life of 20+ years with 98% uptime for 24x7x365 mission critical applications.

**About the company:** Renutron Power Solutions India focuses on providing power conditioning solutions for IT industries and automations functioning in unreliable raw utility power supply, having spread its products and services across the nation.

### Contact:

Renutron Power Solutions India Pvt Ltd,  
Kolhapur  
Mobile: 09372346979  
Email: sales@renutron.com



Scan the QR Code for instant product enquiry



## INVERTER BATTERIES - SHORT TUBULAR TECHNOLOGY

Urja Batteries Ltd offers a wide range of inverter batteries - short tubular technology.

### Features:

- Lead Acid Batteries designed for Home UPS and Inverter applications ensure availability of uninterrupted and regulated power during mains failure or dip in input voltage. A tubular battery uses technology that seals the active material in polyester tubes called gauntlets, instead of pasting it on the surface of the plate. As a result, there's no shedding or corrosion, ensuring long battery life.
- Its features include: a satisfactory performance; ability to withstand frequent deep discharge; reliability over months; low maintenance; minimum emission of gases/fumes.

**About the company:** Urja Batteries, an ISO: 9001:2008, ISO: 14001:2004 and OHSAS 1800:2007 certified company, specialises in lead acid batteries for industrial, solar and standby power solutions.

### Contact:

Urja Batteries Ltd, Jhajjar  
Tel: 01276-645363  
Email: info@urjabatteries.in



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## LITHIUM BATTERY SOLUTIONS

Riello Power India Pvt Ltd offers a wide range of lithium battery solutions.

### Features:

- UPS and energy storage systems (ESS) powered by lithium battery solutions.
- The Riello UPS lithium battery proposal incorporates several solutions spanning a large number of application requirements that meet the most pressing market demands.
- The Riello UPS lithium battery proposal is suitable for: data centers (e.g., co-location, control rooms); telecom (e.g., fix and mobile operator); healthcare (e.g., hospitals and medical centers); building infrastructures (e.g., financial institutions, education centers); transportation (e.g., railway and airport infrastructure); manufacturing (e.g., food & beverage industry); Energy storage (e.g., photovoltaic, wind and cogeneration applications, smart grid, and off-grid applications).

**About the company:** Riello Power India provides power solutions and services and has service centres at metros and in the major cities across the country. telecommunication, among others.

### Contact:

Riello Power India Pvt Ltd, Gurgaon  
Tel: 0124-4727134  
Email: ups@riello-power.com



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## SERVO STABILISER

Vertex Power Solutions offers a wide range of servo stabiliser - three phase aircooled 3 kVA - 150 kVA.

### Features:

- Three phase aircooled servo stabilisers consists of three single phase units connected in star.
- The voltage sensing & correction is done in each phase independently with respect to the neutral, also called as unbalanced type voltage stabilisers.
- These stabilisers are used for various kinds of machinery like CNC, textile, CT scans, printing, packaging, freezers, etc.
- Vertex stabiliser uses a microcontroller (DSP) control system to provide a steady voltage and also protects the machinery from under/over voltage, overload, single phasing and phase reversal conditions.

**About the company:** Vertex Power Solutions is engaged in manufacturing, wholesaling, and exporting of a servo-controlled voltage stabilisers (SCVS), isolation transformers (IT) and special application transformers. The company is managed by a team of engineers with many years of experience in the field of power conditioning equipment under the brand name Vertex.

### Contact:

Vertex Power Solutions Pvt Ltd, Chennai  
Mobile: 09940058974, 09164657788  
Email: manjunath@vertexpower.co.in



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## Our Range And Services

- ▶ Bhambra manufactures widest range of machinery for making bright bars, from 6mm to 150mm dia.
- ▶ We provide complete backup for smooth and efficient working of the machinery supplied by us.
- ▶ Bhambra has a well experienced team for installation, commissioning and trouble shooting.
- ▶ All our machines have a warranty of six months against manufacturing defects.



**Bar Peeling Machines**



**SM Series Round Bar Straightening Machines**



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**SMH Series Round Bar Straightening Machines**



**Section Straightening Machines**



**Bar Pointing Machines**



**Bar Peeling Machines**



## Bhambra Engineering Works

237/K, Manicktala Main Road, Kolkata – 700 054. India

Ph: +91 33 2352 3439 / 4005 / 3559 Mobile: +91 9831006429

E-mail: [bhambraindia@yahoo.co.in](mailto:bhambraindia@yahoo.co.in) Website: [www.bhambraindia.com](http://www.bhambraindia.com)

## AUTOSYS - BIG BAG DISPENSING SYSTEM

Autosys offers a wide range of Autosys - big bag dispensing system.

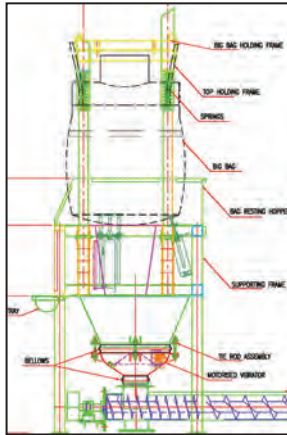
### Features:

- Autosys provides Bin Bag Dispensing systems that can be set up just where the raw material is needed in the process. It can be a feeding chamber, a vessel or day bin from where the raw material is consumed by the process.
- Compared to Silo/Bin based Storage, and associated handling and feeding systems, Big Bag based storage and feeding, substantially reduces the Capex cost of the project and the space required.
- The Autosys system comes with supporting structure and motorized chain pulley arrangements, so that the bag can be picked up and then hoisted above the dispensing area. A single system can handle multiple sizes of bags, so that the same system can be used to feed different raw materials with different bulk Densities and packing sizes. The system can be used either with Fork lift based handling systems or EOT based systems. To reduce human handling, automatic knife based auto tearing can also be provided.
- The Autosys system also has optional add-ons such as "time based oscillation" and "pneumatic poking systems", to ensure that the material is fed smoothly, even in the case of difficult to flow materials.
- The system also comes with special valves and collection vents to connect to centralized dust collection systems.
- The system can also be coupled with vibrating mesh for sieving before feeding. For smaller bags, Autosys also provides small bag cutting, handling and feeding systems with dust free chambers for high volume RM feeding.
- Many industries buy raw materials in Big Bags: 1000 Kg, 500 Kg and 250 Kg Bags. Instead of unloading these raw materials into silos or bins, it is much easier to stack them and store them as is, in the RM Storage area, provided there is a way to dispense these raw materials directly into the process.

**About the company:** Autosys and its leadership team has 30+ years of experience from 500+ projects. Autosys has solved some of the most complex problems in material handling, feeding and batching with its innovative engineering and expertise.

### Contact:

Autosys  
Mobile: 09840158512  
Email: vjk@koremec.net



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## EXHAUST VENTILATION

Hindustan Engineers offers a wide range of exhaust ventilation.

### Features:

- Exhaust ventilation systems work by depressurizing a structure. The system exhausts air from the house, thus causing a change in pressure that pulls in make-up from the outside through leaks in the building shell and intentional, passive vents.
- Exhaust ventilation is most appropriate for colder climates, since in warmer climates, depressurization can draw moist air into wall cavities where it may condense and cause moisture damage.
- Adjustable, passive vents through windows or walls can be installed in other rooms to introduce fresh air rather than rely on leaks in the building envelope. Passive vents may, however, require larger pressure differences than those induced by the ventilation fan to work properly.

**About the company:** Hindustan Engineers, established in 1998, is engaged in manufacturing and supplying environmental control and solid handling systems.

### Contact:

Hindustan Engineers, Chennai  
Mobile: 09884480707, 09500071919  
Email: hindustanengineers@gmail.com



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## FIRE ENTRY SUIT

RNG Performance Materials offers a wide range of fire entry suit.

### Features:

- Fire entry suit is a specialized fire suit made by RNG Performance Materials, a fire entry suit manufacturer in India. This suit is specially made to protect the wearer from flashover and flame engulfment.
- This fire entry suit is designed for a perfect fit providing the wearer with the required freedom while moving along with outstanding flame protection, radiant heat reflectivity & wet flex resistance.
- The suit provides the wearer with insulation for up to 2 to 2.5 minutes during a fire. This is extremely handy in emergency situations in kiln rooms, refineries, power sectors, chemical plants, oil and gas sector and more such industries.

**About the company:** RNG Performance Materials, India is a specialist welding blanket manufacturer. Based in Gujarat, India, RNG Performance Materials is a manufacturer of top quality high temperature fabrics, fire safety ppe and fire blankets.

### Contact:

RNG Performance Materials, Vadodara,  
Mobile: 09978441311  
Email: Sales@RNG.Asia



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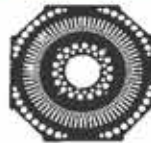






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- Strip Laminations -E & I, Type 8, 8B, 16, 43...

**BABULAL BHANSALI**

Managing Director

**VIKRAM BHANSALI**

Director

111-A, Bommasandra Industrial Area, Bangalore-560099, Karnataka, India

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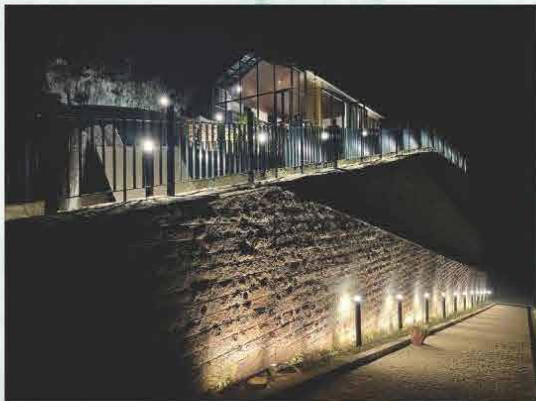
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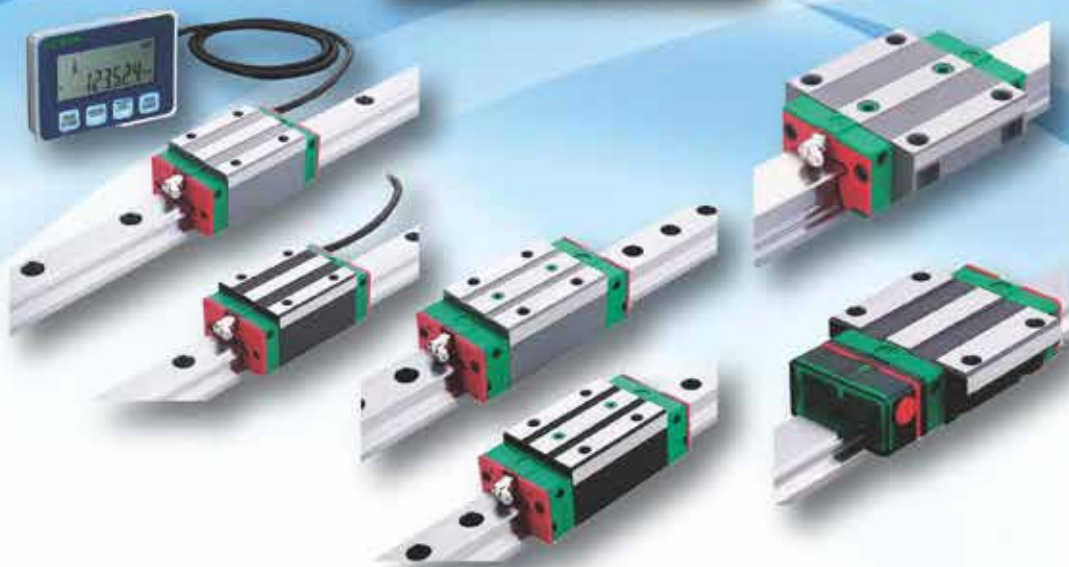
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Okhla Industrial Area, Okhla Phase II, New Delhi - 110020  
**Tel:** 011-41326360, +91 9811411433, 9313889276

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## IBK Engineers Pvt Ltd

# B-219, 4th Cross, 1st Stage, Peenya Industrial Estate,  
Bangalore - 560 058 Ph: +91 80 2372 6644, 2372 5544  
Email: raju.kn@ibizkart.com, ibksales@ibizkart.com  
Website: www.ibizkart.com



## ROTARY UNION

Fluconn Rotary Devices Pvt. Ltd offers a wide range of rotary union.

### Features:

- A rotary union is a mechanical seal used to transfer fluid or media from a stationary source, such as a pump, into a rotating device, such as a spindle with cutting tool.
- Rotary joints enable transfer of the fluids used to heat and cool.
- Rotary unions are used for heating or cooling the many processing rolls throughout the wide variety of applications.
- In addition, rotary unions for air and hydraulic service are used in winding and injection molding applications.
- In certain machine tool applications, rotate unions also are used to transfer hydraulic fluid or air for clamping or sensing.
- With the adoption of industrial automation it is a necessity to have efficient and reliable fluid transfer using Rotary Unions.
- With the help of our Rotary union solutions our customers are able to achieve higher processing efficiencies in their manufacturing units. Our products also help lower the maintenance and operation costs.
- We cater to a wide range of industries and their specific applications and also offer a wide range of material choices to meet the demands of varying environmental conditions and limits of operating specifications.
- Contact Fluconn Rotary Devices for your Rotary Union requirements.
- Apart from standard use cases we also specialize in special applications that require custom built Rotary Unions.

**About the company:** Fluconn Rotary Devices Pvt Ltd (Formerly Fluconn Co) has been engaged in manufacturing Rotary Unions since 1982. Fluconn Rotary Devices has been the Pioneer in manufacturing Rotary Unions in India, and the only one in the organized sector. The range and design of Fluconn Products covers every existing application for Rotary Unions in a wide spectrum of Industries. The application ranges from a mere swiveling action to spinning at 15,000 rev/min.

### Contact:

Fluconn Rotary Devices Pvt Ltd, Vapi  
Tel: 0260-2452068  
Mobile: 09016818012  
Email: sales@fluconn.com,  
fluconn@gmail.com



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## VOLTAGE TESTER MODEL-KM 66 / KM 69

Kusam Electrical Industries Ltd "Kusam-Meco" voltage tester model-KM 66/KM 69.

### Features:

- Kusam-Meco has 2 voltage testers in their vast range of digital test & measuring instruments. The Testers have highest safety 'UL/ETL' approval. Model KM 69 is with display & Model KM 66 is without display. KM-69 displays DC voltage from 0.1 V-1000 V, AC voltage from 0.1 V-1000 V in 8 steps. The sensing is TRMS.
- It also has AC Detection Shaker & RCD leakage-path. RST (RYB) Phase Sequence rotation and Detection It also has Non contact & Probe contact EF Detection-Auto DCV, ACV & Audible continuity selection.
- It can check RCD leakage load for 230 V AC / 30 m A RCD Circuit Breakers. It has backlight display & flash light for easy viewing in dark. It is rated for IP 65 protection.

**About the company:** Established in 1983, Kusam-Meco, an ISO 9001:2008 certified company, introduced and pioneered the use of digital multimeters and clamp meters in Indian industry.

### Contact:

Kusam Electrical Industries Ltd, Mumbai  
Tel: 022-27754546, 27750662,  
Email: sales@kusam-meco.co.in



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## SHOE UPPER TAPES

Intek Tapes Pvt Ltd offers a wide range of shoe upper tapes.

### Features:

- The Fixon® range of tapes from 'Intek' are what lend character to great footwear. Although used primarily to retain shape, Fixon® Shoe upper tapes add body, control stretch, promote comfort and ensure durability of leather shoes.
- For the specialised and wide needs of the footwear industry FIXON® offers adhesive tapes on a variety of backing materials for applications in Topline, Back Seam, Eyelet and Vamp reinforcement for excellent durability and performance.
- While FIXON® tapes are mainly used for reinforcement, it also adds body, controls stretch, flexibility, shape retention, comfort and durability of the finished product.

**About the company:** Intek Tapes Private Limited is a company that is involved in the manufacture of a wide range of pressure sensitive adhesive tapes.

### Contact:

Intek Tapes Pvt Ltd, Bangalore  
Tel: 080-26655691/92/94  
Email: sales@intektapes.com



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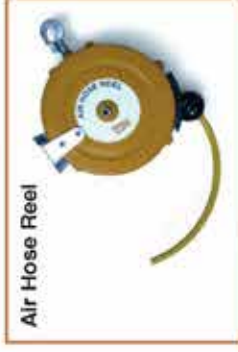
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Mob:- 918951101436 / 9880652082 email: [saivacblr@vacpneumatic.co.in](mailto:saivacblr@vacpneumatic.co.in)

Pune Office:- No. c-34 & 35, 1st Floor, 128/3, Sanghavi Complex, Mohan Nagar, Chinchwad, Pune 411019 Tel: +912027464860 / 32507458

Contact Person: **Jay Mehta**, Mob: +919011096668 email: [saivacblr@vacpneumatic.co.in](mailto:saivacblr@vacpneumatic.co.in)

## AUTOMATIC BACK SPOT FACING TOOL

Shenoy Engg Pvt Ltd offers automatic back spot facing tool.

### Features:

- Since fully automatically operated back spot facing tools are generally not available, customers have no choices, other than to use a detachable cutter & a tool holder. For every operation, cutter needs to be physically dismantled, before going over to the next hole. Operators need to wait till the cutter cools down after completing and before commencing another operation, wasting machine hours & operator's energy.
- It offers automatic back spot facing tool to suit to customers' requirement. For hole Ø9 mm to Ø 12 mm, tools are offered with solid HSS wings. Optionally, brazed carbide wings are also offered. For holes Ø12 mm & above, tools are offered with wings, accommodating center clamping type, standard carbide inserts, having 4 cutting edges. Tools are tailor-made to suit varying individual requirement.
- Generally, the ratio of maximum back spot facing diameter with respect to the corresponding pilot hole diameter is 2:1. Since a back spot facing tool is normally custom-built, there is no general thumb rule for the back spot facing dia with respect to the corresponding pilot dia. The holding shank can be cylindrical (suitable for side lock holders), Morse taper, ISO, BT, and Metric, depending upon the machine spindle taper. The rear counter boring tool is meant for producing one specific back spot facing diameter through one specified bore. Therefore, these back spot facing tools are ideal for batch or mass production.
- The tool shank is made of case hardening steel for wear-resistance and also for taking care of heavy torsion load.
- In fact, this is the only known tool, which performs back spot facing operation automatically and without manual interruption. Therefore, for back spot facing operation, this is the most ideal tool in CNC machines, machining centers, SPMs with auto-cycles etc. When used even in conventional machines like radial drills, milling and boring machines, this tool save considerable time.

**About the company:** Shenoy Engg Pvt Ltd has developed a number of grinding attachments which enhance the capabilities of existing machines. It has also started specialising in special purpose machine tools, jigs and fixtures, technological upgradation of conventional machine tools, etc.

### Contact:

Shenoy Engg Pvt Ltd, Bangalore  
Tel: 080-28361767, 28361725  
Mobile: 09243437487  
Email: [info@shenoyengineering.com](mailto:info@shenoyengineering.com)



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## KUSAM-MECO" THERMAL IMAGING CAMERA - MODEL TG-305

Kusam Electrical Industries Ltd offers a wide range of Kusam-Meco" Thermal Imaging Camera - Model TG-305.

### Features:

- Kusam-Meco has added a low cost, high infrared image resolution Thermal Imaging Camera to their range. The infrared resolution is 320 x 240. The measurement range is -20°C to 300°C. The field of view is 56° x 42° & shortest focal length is 0.5m. The display screen is 2.8 inch full view TFT display.
- The image resolution is 300,000 pixels. This new imager is designed for Non-Contact Detection and calculation of apparent surface temperature. The thermal image creation is based on the temperature variation. It has TFT Color LCD display to provide fast and accurate readings for most surface temperature measurements.
- These imagers are built to work in tough environments, are ideal for trouble shooting electrical systems, electro- mechanical equipment, process equipment, HVAC/R equipment etc.
- It is also used for search of concealed fire source in fire control, make analysis of the leakage position and heat loss of thermal pipeline & heating equipment's; determine the position of heating failure in the operation of trains. Night monitoring of security departments.
- Its function include storing of thermal images & visible images which can be read through USB. The Highest temperature and lowest temperature cursor may guide the users to the areas with the highest & lowest temperature. It has a selectable color palette.
- The emissivity is adjustable from 0.01 to 1.00. The Frame rate of the thermal images is 9Hz. The wave length coverage is 8-14μm. Color palette is Rainbow, Iron Oxide Red, Cold Color, Black & White, White& Black. It has built in 3G memory card (with capability to store over 20,000 images in JPG format). It has communication port micro USB 2.0. It is powered by re-chargeable battery which can work 2-3 hours on one charge. It has selectable Auto Power Off function. Approx. weight is 325gms. It is supplied with operational manual, USB Cable, Power Adapter, Software CD, & Instrument Box.

**About the company:** Established in 1983, Kusam-Meco, an ISO 9001:2008 certified company, introduced and pioneered the use of digital multimeters and clamp meters in Indian industry. It also offers the industry's broadest line of digital test instruments for electrical, electronic and environmental testing and measurement applications.

### Contact:

Kusam Electrical Industries Ltd, Mumbai  
Tel: 022-27754546, 27750662, 27750292  
Email: [sales@kusam-meco.co.in](mailto:sales@kusam-meco.co.in)



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To know more you can reach us at:

MAGTORQ PRIVATE LIMITED  
58-C, Sipcot Industrial Complex,  
Hosur - 635 126

Phone: 04344-276338, 276581

E-mail: [info@magtorq.org](mailto:info@magtorq.org), [mail@magtorq.org](mailto:mail@magtorq.org)

[www.magtorq.com](http://www.magtorq.com)

## D C CHOKE

Miracle Electronic Devices Pvt Ltd offers a wide range of D C choke.

### Features:

- A DC choke, also known as a DC reactor or DC inductor, is an electrical component used to limit or control the flow of direct current (DC) in an electrical circuit. They are primarily used in various applications to achieve specific purposes, including:
- Filtering and Smoothing: DC chokes are commonly used in power supply circuits to filter out high-frequency noise and ripple voltage. By introducing a DC choke into the circuit, it can help to smooth the DC output, resulting in cleaner and more stable power for sensitive electronic equipment.
- Voltage Stabilization: In some cases, DC chokes are used to stabilize the voltage levels in a circuit.
- Current Limitation: DC chokes can be used to limit the amount of current flowing through a circuit.
- Harmonic Mitigation: In AC/DC conversion systems, such as variable frequency drives (VFDs), DC chokes are used to reduce harmonics in the current waveform. Harmonics can cause overheating and other issues in electrical systems, so DC chokes are employed to mitigate these effects.
- Inrush Current Limiting: When electrical equipment is turned on, there can be a surge of current called inrush current. DC chokes can be used to limit this inrush current, protecting the equipment and preventing circuit breakers from tripping.
- DC Motor Control: DC chokes are used in DC motor control systems to smooth out the current supplied to the motor, reduce electromagnetic interference (EMI), and improve overall performance.
- Power Factor Correction: DC chokes can be used in power factor correction circuits to improve the power factor of electrical systems. This helps to make electrical systems more efficient and reduces reactive power.
- Power Electronics: In power electronic applications, DC chokes can be used in inverters, converters, and other devices to control and stabilize the flow of DC power, reducing electrical noise and improving the efficiency of these systems.
- Solar and Wind Power Systems: DC chokes are used in renewable energy systems to filter and stabilize the DC power generated by solar panels or wind turbines before it is fed into the grid or used in battery storage systems.

**About the company:** Miracle Electronics is a renowned Transformer manufacturer in India, engaged in manufacturing Power transformers, Toroidal transformers, EI transformers, etc.

### Contact:

Miracle Electronic Devices Pvt Ltd,  
Bangalore  
Tel: 080-28362750  
Email: sales@miracle.net.in



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## INDUSTRIAL VACUUM CLEANERS

Rotamec Engineers offers industrial vacuum cleaners.

### Features:

- These Industrial vacuum cleaners are based on multistage blower /exhausters and driven by 3 phase electric motors to provide very powerful yet compact vacuum units.
- They are particularly suitable for applications in the pharmaceutical, food, chemical, cement and similar industries. They are available in fixed as well as mobile versions, with power ratings from 3 to 180 HP. They are equipped with efficient filters of fabric bags or cartridges/HEPA, with either manual or electric bag shakers or in the larger sizes with pneumatic pulse purging.
- The waste drums with its simple, attach, detach mechanism is castor mounted for ease of usage. Standard construction is in powder coated mild steel, but where required any particular part may be offered in SS 304 stainless steel construction.

**About the company:** Rotamec have been established in the heart of Vasai a district of Palghar. The name echoes an experience of more than twenty five years in the field of Engineering, Design and Manufacturing at its best quality without any compromise on performance.

### Contact:

Rotamec Engineers, Palghar  
Mobile: 098202 23981  
Email: rotamecvacpac@yahoo.com

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## SLAB TONG

Armatic Engineering Private Limited offers slab tong.

### Features:

- Offering a qualitative range of 25T Slab Lifting Tongs For Hot Slab. These are ergonomically designed and developed as per world class standard and using advance technologies.
- Following the demands and requirements of clients, they offer these tongs in various range and models. Their devices are compact in size and acclaimed for reliability and consistent performance.

**About the company:** Armatic Engineering was Established in 1968. They are ISO Certified Leading designers of custom-built material handling equipment in India having expertise in design and innovation of new products.

### Contact:

Armatic Engineering Private Limited,  
Bangalore  
Tel: 080-26717078/26711733/26713125  
Email: mail@armaticengineering.com



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marketing@insyselectrical.in <http://www.insyselectrical.in/>

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## AUTOMATIC DUPLEX DEBURRING & CHAMFERING TOOL

Shenoy Engg Pvt Ltd offers a wide range of automatic duplex deburring & chamfering tool.

### Features:

- Burr-free, clean hole is a time consuming, cumbersome operation in a shop-floor. Our Automatic Duplex Deburring & Chamfering Tool is designed for a quick deburring of the top & bottom end of drilled hole, immediately after drilling the same set up, without declamping the job.
- It deburrs and produces a light chamfer in a drilled hole both at the top as well as at the bottom. No change either in the spindle speed or in the direction of spindle rotation or in the job set-up is required. The tool can be deployed immediately after drilling. Neither manual interruption nor special operational skills are required at any stage of it's use. The time required for duplex deburring and chamfering is few seconds. Further, the chamfers will be uniform & concentric to the hole.
- The tool consists of only 4 parts - shank, HSS blade, fulcrum-cum-lock screw and screw for adjusting blade projection. The blade, having certain unique features, is made of HSS and it undergoes a special heat treatment process, because of which it attains certain level of spring action. After cutting on the top of a hole, the blade retracts inside the pocket, provided in the tool shank, as the cutting pressure increases. The blade gets slowly released from the pocket, as the cutting pressure decreases and the deburring and chamfering operations are done in the bottom of the hole. Special care is taken to ensure that the tool or its parts do not damage the bore.
- The tools are available in sizes from Ø5 mm to Ø24 mm in a stepless range. The holding shank is cylindrical, so that the tool can be mounted on the machine spindle through a drill chuck or collet. The required minus tolerance on the guiding shank of the tool is maintained for an easy entry and free rotation in the bore. Therefore, the bore diameter of the tool is identified as the size of the tool.
- The robust construction, unique design features and heat-treatment process for wear resistance make the tool and the blade highly enduring under the most trying cutting conditions.

**About the company:** Shenoy Engg Pvt Ltd has developed a number of grinding attachments which enhance the capabilities of existing machines. It has also started specialising in special purpose machine tools, jigs and fixtures, etc.

### Contact:

Shenoy Engg Pvt Ltd, Bangalore  
Tel: 080-28361767, 28361725  
Mobile: 09243437487  
Email: info@shenoyengineering.com



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## SHEET PACK LIFTERS

Armatic Engineering Private Limited offers sheet pack lifters.

### Features:

- Keeping in mind the precise demands of clients, we offer a wide range of Sheet Pack Lifters. These are manufactured using best quality components and following international industrial standards.
- There products are acclaimed for their high work capacity and effective performance. These are acclaimed for their optimum strength and top notch performance. They ensure top notch performance.

**About the company:** Armatic Engineering was Established in 1968. They are ISO Certified Leading designers of custom-built material handling equipment in India having expertise in design and innovation of new products.

### Contact:

Armatic Engineering Private Limited,  
Bangalore  
Tel: 080-6717078/26711733/26713125  
Email: mail@armaticengineering.com

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## FLOOR CRANE- AVBOFC 1030

Avcon Systems introduces a floor crane AVBOFC -1030 to handle hooking applications for heights up to 4000 mm and capacities up to 1500 kg.

### Features:

- Battery Operated floor cranes become instrumental in Injection Molding industries, Rubber industries, Textile and Aerospace industries for various applications where customers don't have overhead cranes or want to reduce engagement time for overhead cranes for medium duty component handlings.
- With multiple options of Semi Electric, Counter Balanced and wide chassis model AVCON has become industry leader providing solutions for shop floor material handling activities in a flexible path system. Ease of operation, Minimum Maintenance, Precision in handling critical components are key features of the product.

**About the company:** Avcon Systems one of the oldest material handling solutions provider in the country was established in the year 1984. Avcon in a very unpretentious manner of providing material handling solutions. Our trusted solutions and commitment have made customers come back to us. Avcon has developed skills for helping our customers with correct selection of equipment for optimum usage in cost effective manner.

### Contact:

Avcon Systems, Thane  
Helpline: 09833147460  
Email: sales@avconforklift.com

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# Fastening-Joining-Riveting Solutions for Fabrication & Assembly

## Self Clinch Fasteners

- Clinch Nuts
- Clinch Studs
- Clinch Standoff (Blind & Thru) and Many More types

Sizes : Metric, UNC & UNF

Material : Carbon Steel, Stainless Steel, Alu.



## LOWEST PRICING

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- Ready availability
- Certifications

## Nut-Inserts / Rivet Nut

- Open end and Closedend
- Small flange, Large flange, CSK
- Round Body, CSK, Hex

Sizes : Metric & UNC

Material : Carbon Steel, Stainless Steel, Alu.  
FULL RANGE AVAILABLE



## Panel Fasteners

- Spring Loaded
- Thumb Screw
- Captive Screw
- Low profile

Sizes : Metric, UNC & UNF

Material : Stainless Steel, Alu.



## Cage Nuts

- High Quality
- For various sheet thickness
- Special Types Available

Sizes : Metric & UNC

Material : Spring Steel and Spring Stainless Steel



## Blind Rivets

- Open End/Closed End
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- Multigrip
- Bulbtype & Many more

Sizes :  
2.4 dia, 3.2 dia, 4 dia, 4.8 dia,  
6.4 dia in various lengths

Material : Carbon Steel, Stainless Steel, Alu., Copper



## Structural Rivets

- Mono-bolts
- High tensile and Shear strength
- Heavy duty

Sizes : 4.8 dia & 6.4 dia

Material : Carbon Steel, Stainless Steel, Alu.



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  - Pneumatic tools
  - Air Hydraulic tools
  - Electric tools
- for Blind Rivets & Nut-Inserts



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- Spread Nut-Inserts
- Speed Riveting Systems
- Nylon Nuts

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## PF SERIES WATER BASES FLUID PUMP

HTM Hydraulics Pvt Ltd offers a wide range of PF series water bases fluid pump.

### Features:

- These pumps are compatible with water glycol as well as variety of water-based and other low lubricity fluids.
- They can operate at pressure to 1040 bar on well head control systems both on and offshore around the world.
- Output flow range of 1lpm-30lpm. Dynex single fluid design eliminates the need for a separate lubrication circuit, resulting in less space, labour, piping and lower ongoing maintenance cost.

**About the company:** HTM Group has been in the field of hydraulics since 1995. Their expertise in the industry makes us one of the leading competitive companies in the field of trading, marketing & servicing and training for customers in India and abroad. HTM group has headquarters in Bangalore, India.

### Contact:

HTM Hydraulics Pvt Ltd, Bangalore

Tel: 080-41572101 Mobile:

09741165877

Email: [info@htmhydraulics.co.in](mailto:info@htmhydraulics.co.in),

[sales@htmhydraulics.co.in](mailto:sales@htmhydraulics.co.in)



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## ABSOLUTE OPTICAL SCALE FOR LARGE MACHINES – GVS 908

Givi Misure Pvt Ltd offers a wide range of absolute optical scale for large machines – GVS 908.

### Features:

- Absolute optical scale, available in a single piece or in modular version for large machines (up to 30040mm of measuring length).
- Application in various industrial fields such as machine tools, vertical lathes, gantry machines, laser/plasma cutting machines, robotics, automation etc.
- Stainless steel grating, integral with the machine guide, for an excellent accuracy at any temperature.
- Serial interface SSI-BiSS C (unidirectional), with or without 1 Vpp analog signal, Siemens Drive-CLiQ and Fancu a-ai. Direct reading of absolute measure. Resolutions up to 0.1μm. Accuracy grade ±5μm.

**About the company:** Givi Misure has been established by experts in the field to provide low cost automation solutions to machine tools and other machines.

### Contact:

Givi Misure Pvt Ltd, Bangalore

Tel: 080-41272559, 41171374

Mobile: 09900028662, 09900028663

Email: [info@givimisureindia.com](mailto:info@givimisureindia.com),

[admin@givimisureindia.com](mailto:admin@givimisureindia.com)



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## INCREMENTAL OPTICAL SCALE FOR LARGE MACHINES – GVS 900

Givi Misure Pvt Ltd offers a wide range of incremental optical scale for large machines – GVS 900.

### Features:

- Incremental optical scale, available in a single piece or in modular version for large machines. (up to 30040 mm of measuring length or higher on request).
- Application in various industrial fields such as machine tools, vertical lathes, gantry machines, laser/plasma cutting machines, robotics, automation etc.
- Stainless steel grating, integral with the machine guide, for an excellent accuracy at any temperature. Resolutions up to 0.1μm, accuracy grade ± 5μm.
- Rigidly bound modules, for a perfect seal against liquids and environmental dirty, unaltered over time.

**About the company:** Givi Misure has been established by experts in the field to provide low cost automation solutions to machine tools and other machines. The equipments supplied by company, will help end users to improve quality and productivity levels.

### Contact:

Givi Misure Pvt Ltd, Bangalore

Tel: 080-41272559, 41171374

Mobile: 09900028662, 09900028663

Email: [info@givimisureindia.com](mailto:info@givimisureindia.com)



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## CNC POLYGON TURNING MACHINE

Brisk Tech Engineers offers a wide range of CNC polygon turning machine.

### Features:

- Brisk CNC polygon turning machines are rigid in construction and high precision to provide a wide variety of machining needs.
- Wide cutting applies to even number polygon cutting (flat, square, hexagon) eccentric cutting, radius milling, taper profiling cutting, face slotting, diamond profile cutting & T nuts.

**About the company:** Brisk Tech Engineers was established in 2003. as a design consulting firm developing products designed for various machine tools. Gaining expertise over the decade it developed CNC Polygon Turning Machines and Special-purpose Machines, that cater to the needs of various segments of the manufacturing industry. It's our great honor to provide high-quality products to customer satisfaction.

### Contact:

Brisk Tech Engineers, Bengaluru

Tel: 080-28364403

Mobile: 09448479855, 07892743816

Email: [info@brisktechengineers.com](mailto:info@brisktechengineers.com),

[briskanand500@gmail.com](mailto:briskanand500@gmail.com)



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## CNC COMBO POLYGON LATHE

Brisk Tech Engineers offers a wide range of CNC combo polygon lathe.

### Features:

- A CNC Combo polygon lathe machine is a unique integration of a CNC polygon with basic CNC lathe operation. Turning, centring, grooving, drilling, tapping & polygon milling cutting are carried out at the same machine.
- They build two different model as follows: CNC flat bed combo polygon lathe machine with tailstock. CNC slant bed combo polygon lathe machine. (60 degree inclination).

**About the company:** Brisk Tech Engineers was established in 2003. as a design consulting firm developing products designed for various machine tools. Gaining expertise over the decade it developed CNC Polygon Turning Machines and Special-purpose Machines, that cater to the needs of various segments of the manufacturing industry. .

### Contact:

Brisk Tech Engineers, Bengaluru  
Tel: 080-28364403  
Mobile: 09448479855, 07892743816  
Email: info@brisktechengineers.com, briskanand500@gmail.com



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## 2 POLE O/C RELAY WITH INSTANTANEOUS HIGHEST ELEMENTS

JVS Electronics Pvt Ltd offers non-directional, inverse time, 2 Pole O/C relay with instantaneous highest elements JRC 064.

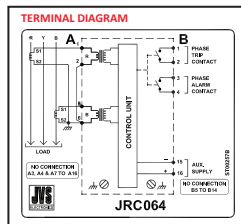
### Features:

- The relay measures the line current from each of the phases and if it exceeds the set threshold, then relay extends a trip signal after an operating time.
- The relay's operating time is determined by selecting one of the four inverse time characteristics.
- The relay has facility to active / inhibit the high set protection feature. The relay output contacts are self reset / Hand reset type.
- Its features include: Software based design; programmable time current characteristics; Choice of four IDMT curves; Draw out case; Wide range auxiliary supply; Low burden.

**About the company:** JVS Electronics Pvt Ltd is an exporter, manufacturer and supplier of audio indicating instruments, visual indicating instruments, electrical indicating instruments, etc.

### Contact:

JVS Electronics Pvt Ltd, Bangalore  
Mobile: 09448288863  
Email: bangalore@jvselectronics.in



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## ELECTRICAL TAPES

Intek Tapes Pvt Ltd offers a wide range of electrical tapes.

### Features:

- FIXON® Electrical Tapes have been developed from carefully selected backings and adhesive systems.
- The adhesive used in the manufacture of the tape have been developed with a special formulation to withstand different classes of temperature from Class A-105°C to Class H-180°C and includes Rubber, Acrylic and Silicon based formulations.

**About the company:** Intek Tapes Private Limited is a company that is involved in the manufacture of a wide range of pressure sensitive adhesive tapes. Products that are designed to suit an array of specifications in the Leather, Electrical, Electronics, Printing and Packaging Industry. These tapes are marketed under the renowned Fixon® brand name.

### Contact:

Intek Tapes Pvt Ltd, Bangalore  
Tel: 080-26655691/92/94  
Email: sales@intektapes.com



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## MOBILE FILTRATION SYSTEMS

S & C INVOTEK offers a wide range of MOBILE FILTRATION SYSTEMS.

### Features:

- S & C Invotek is one of the leading manufacturers over 2 decades of Extensive Range of Industrial Filter Housings, Filter Bags & Filter Elements, We provide Customers with Best-in-class Mobile Filtration Products Which is user-friendly for the shop floor requirements and it is easy to move from around different places on the shop floor wherever batch filtration is required as there is no need for permanent installation.
- Our Systems are designed for use with high performance filter bags, Strainers or cartridge filter with longest life, the lowest operating and Maintenance costs.
- Its applications use din: Quench Oil/Coolant oil/ Polymer Oil/Furnace Oil/Sugar Syrup/ Liquid Glucose, etc.

**About the company:** S&C Invotek is a pioneering company in the field of manufacturing filtration systems, also know as top auto components manufacturers in India. Based in Bangalore, South India, the company has earned a prominent position as a leading designer and manufacturer of custom-engineered filtration products.

### Contact:

S & C Invotek, Bangalore  
Tel: 080-6665676/26697112/26797001,  
Mobile: 09844035677, 09980775677  
Email: Info@invotekfilters.com



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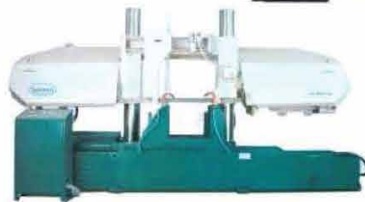




# J.R. Rao & Co.

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MILLING MACHINE



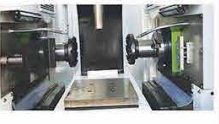
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Double End fine boring ,Facing and Turning Machine



Duplex Milling Machine



Chip Conveyors Air Filtration Systems  
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Website: [www.jrmachinetools.com](http://www.jrmachinetools.com)

## CYCLON PRO-510 WALK BEHIND SCRUBBER DRYER

Soma Specialities Pvt Ltd offers a wide range of Cyclon Pro-510 walk behind scrubber dryer.

### Features:

- Floor cleaning is one of the most necessary cleaning operation for any premises that needs to be frequently and round the clock at times. But with the Cyclon PRO-510 Walk Behind Scrubber Dryer, this task can be done effectively and efficiently with minimum effort. THE CYCLON PRO-510 is a heavy duty scrubber dryer meant for cleaning the floors in all kinds of medium to large premises.
- This machine has one scrubbing brush attached to the brush motor and two large capacity tanks; solution tank of 45 Ltrs and Recovery Tank of 50 Ltrs. While the solution tank dispenses the cleaning chemical on the floor, the scrubbing brush moves in a rotary direction and cleans the floors due to the agitation of the scrubbing brush and cleaning chemical releasing the dirt from the floor.
- As the operator walks past the scrubbed floor area, the rubber squeegee wiper collects the residual dirty water that was generated on the floor and transfers it to the recovery tank using vacuum suction process. Therefore, the floor becomes completely clean and dry immediately simultaneously in just one pass! The CYCLON PRO-510 is a more hygienic alternative to traditional cleaning methods such as a mop and bucket.
- Therefore, since the CYCLON PRO-510 scrubs and sucks the water simultaneously, it eliminates the risk of people slipping as the floor is completely dry. Any place that has a high number of footfall or generates enough dirt to warrant floor cleaning requires a scrubber dryer as the most important tool to fight against dirty floors. As compared to manual cleaning using mops & buckets, the CYCLON PRO-510 can clean the floor 15-20 times faster than conventional processes thereby increasing productivity and reducing time required for floor cleaning in addition to giving a cleaner look on the floors than what can be achieved by manual floor cleaning.
- The CYCLON PRO-510 is ideal for use in Indian conditions and has achieved great success in terms of performance & sales all across India.

**About the company:** Soma Specialities Pvt Ltd the pioneer in introducing cleaning machines in India since 1992 has launched the T130 battery operated ride-on scrubber dryer used for cleaning large floor spaces.

### Contact:

Soma Specialities Pvt Ltd, Mumbai  
Tel: 022-25786895  
Mobile: 09594988533  
Email: info@somaspecialities.com



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## BULK MILK COOLER

Process Engineering Company offers a wide range of bulk milk cooler.

### Features:

- **High Durability**  
Manufactured using proven engineering principles, combines with 30 years designing and manufacturing experience, every BMC (DX) tank is constructed from high quality stainless steel (304) resulting in a superior hygienic finish.
- **Effective insulation:** 50mm polyurethane foam (CFC free) is injected between the inner and outer shells creating high rigidity and good insulation properties thus reducing the running cost and helps in retaining the natural quality of milk.
- **Operationally efficient agitation:** The gentle motion (25 RPM) of the paddle type agitator enables the milk to be blended at all times, while maintaining the uniform temperature of milk and avoids the ice formation/freezing of milk.
- **Easy to Install:** The BMC can be installed even on an uneven ground by adjusting ball feet. High Load Capacity : Robust and sturdy saddles underpin the tank and add strength and durability whilst the milk is stored.
- **High Load Capacity:** Robust and sturdy saddles underpin the tank and add strength and durability whilst the milk is stored. Fabdec's (England) Efficient Cooling Thermal Plates : At the heart of Bulk Milk Cooler is the efficient "Thermal Plate Technology" providing optimum cooling efficiently via direct contact with the plates even at low milk volumes.

**About the company:** Process Engineering Company is a renowned name in the Indian Industry as it deals in diverse machinery which finds use in packaging, food & beverage, chemical, pharmaceutical and other industries. Our company is good at meeting customers needs related to advanced machinery as it designs and develops Bulk Milk Cooler, Double Head Cup Filling Machine, Plate Heat Exchangers, Tilting Boiling Pan, Automatic Cup Filling Machine and others using cutting edge technology. Having our base at Greater Noida, Uttar Pradesh (India), we feel proud to have been making fast deliveries in the nationwide. To support company, qualified and experienced people have been hired who make sure that company scales to new heights.

### Contact:

Process Engineering Company, Greater Noida  
Mobile: 09971934240  
Email: sagarc2403@gmail.com



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- AC Worm Reduction Gear Motor (Single & Double)
- AC Inline Gear Motor
- AC/DC Universal Motor
- AC Motor with Hollow Shaft Gear Box



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- DC Shunt Motor with worm Gear Box 220 Volts DC
- Low Voltage DC shunt Geared Motor
- PMDC Motor 1/8 HP to 3 HP 12/24/48/90/110/180 Volts DC



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- Digital Temperature Indicator cum-controller upto 1600°C
- Capillary Type Thermostat 0-50, 30-100 & 50-300 Deg
- Thermal Cutouts & Fuses
- Bimetal Type Thermostats
- Thermistors
- J & K type Thermocouple and RTD



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- Mechanical Timer 15, 30, 60 & 120 minutes
- Digital Timers & Counters
- 24 Hours Program me timers with & without battery backup



## INSTRUMENT COOLING FANS & BLOWERS

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- Centrifugal Blowers
- Cross Flow Fans
- Axial Flow Fans 8", 10", 12"



## AC SYNCHRONOUS MOTOR & GEAR MOTORS

- AC Synchronous Motors
- DC Stepper Motors
- AC Synchronous Gear Motors
- AC Servo and DC Brush less Motor



## AC SHADED POLE MOTOR & GEAR MOTOR

- AC Shaded Pole Motor 9-45 watts
- AC Shaded Pole Motor with 3" 4" & 6" Al Blade
- AC Shaded Pole Gear Motor 5-140 RPM



## MOTOR SPEED CONTROLLER (DRIVES)

- AC Drive (VFD)
- Stepper Motor Drive
- DC Drive
- AC / DC Motor Controller



## SWITCHES & SENSORS

- Micro Switches & Limit Switches
- Mercury Switches
- Foot Switch
- Proximity Sensors 6-30 mm (AC & DC) Diffusion - Color Mark - Through Scan - Temperature Sensors
- Solid State Relay



## DC MICRO MOTOR & DC MICRO GEAR MOTOR

- DC Micro Motor 3, 6, 12 & 24
- DC Micro Gear Motor 12 & 24 V, 1-300 RPM



## MGM MOTOR (AC INDUCTION MOTOR, AC INDUCTION BREAK MOTORS)

## VARVEL GEAR BOX (HALLOW SHAFT WORM GEAR BOX, HELICAL GEAR BOX, HELI BEVEL GEAR BOX, PARALLEL SHAFT GEAR BOX)



## COMPACT AC/DC GEARED MOTOR (COMPACT AC/DC GEARED MOTOR WITH SPEED CONTROLLER)



Encoder



AC & DC Solenoid



DC Blower



Vacuum Blower



Break



SMPS



Variac



Linear Actuator



Limit Switch



Clutches



## AMBIKA TRADING COMPANY

100, Annexe to Ambika, Shankara Park, Bangalore - 560004.

Phone : 26602160, 26613337, • Fax : 080-26613337

Email : ambikaramesh@hotmail.com • Website : www.ambikatradingcompany.in

## EMPTY LOAD DEVICE BOX

V R Global Private Limited offers a wide range of empty load device box.

### Features:

- The load-empty device consists of two horizontal levers (one live and the other one dead) and is connected by means of empty and load tie rods.
- When the handle is kept in empty position, the empty tie rod is connected to the system and in turn, provides low leverage ratio, thereby gives lesser brake force.
- Empty/load devices directly sense whether a car is loaded or empty and proportions the brake cylinder accordingly.

**About the company:** SV R Global Private Limited is a leading company in the steel superstructure fabrication and erection industry. V R Global Private Limited is a leading company in the steel superstructure fabrication and erection industry. V R Global Private Limited is a well-established company that has been serving Indian Railways and Infrastructure Companies since 2007. They take pride in being a reliable and trusted partner for our customers, delivering high-quality products and services that meet their needs and exceed their expectations. As a company committed to excellence, we employ over 100 people directly and indirectly.

### Contact:

V R Global Private Limited, Kolkata  
Mobile: 09830856000  
Email: vrglobalpvtltd@gmail.com



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## SCREW FEEDER

Manish Engineering Works offers a wide range of screw feeder.

### Features:

- Screw Conveyor is a mechanism that uses a rotating helical blade usually within a tube, to move liquid or granular materials. Screw conveyors in modern industry are often used horizontally or at a slight incline as an efficient way to move semi-solid materials.
- They have a specialized dedicated team in the design and construction of screw conveyors. Each conveyor is speaking to the customer's requirements, infinite choices for size, speed, material or application.
- Materials such as sugar, cement, biomass, effluent, sludge cake, food stuffs, animal feed, ash, refuge, glass cullet, granules, limestone, salt, sand, wheat and barley can be used to move from one place to other using screw feeder.

**About the company:** Manish Engineering Works, pride ourselves on being one of the most respected names in the provision of auto feeding system and allied products. Our Unrivalled expertise in offering complete solutions in the markets has gained us a position of trustworthy manufacturer, service provider and supplier in this industry. scaling new heights in the industry.

### Contact:

Manish Engineering Works, Ahmedabad  
Mobile: 09687950385, 09879289934  
Email: wepleng@yahoo.com



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## EARTH LEAKAGE RELAY- JRC 172

JVS Electronics Pvt Ltd offers a wide range of earth leakage relay- JRC 172.

### Features:

- The relay used for protection of LV/MV distribution systems requiring very high sensitivity for earth faults.
- The relay measures the earth leakage current from the CBCT and if it exceeds the threshold, it extends a trip signal after the operating time.
- Its features include: solid state reliability; built in Test facility; very low primary current sensing; core balance current transformer; supplied along with the unit.

**About the company:** JVS Electronics Pvt Ltd is an exporter, manufacturer and supplier of audio indicating instruments, visual indicating instruments, electrical indicating instruments, etc.

### Contact:

JVS Electronics Pvt Ltd, Bangalore  
Mobile: 09448288863  
Email: bangalore@jvselectronics.in



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## HIGH PRESSURE FBC BOILER

Ambica Boiler offers a wide range of high pressure FBC boiler.

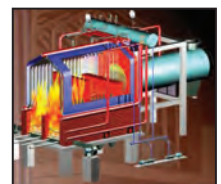
### Features:

- It built-in super heater boiler India choice of fuel feeding systems – In bed for coal, lignite, saw dust - over bed for rice husk.
- It bio gas compatible; microprocessor controlled fuel feeder water cooled, Suvega tube water wall.
- Packaged Concept, Minimum welding at Installation site. No expansion of tubes.

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### Contact:

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### Contact:

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### Contact:

Bhasin Overseas Corporation, New Delhi  
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### Contact:

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Email: dhanalakshmigears@gmail.com

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for high quality to make sure that the range complies with global industrial standards ensuring optimum quality.

### Contact:

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Email: trishla@eth.net

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### Contact:

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Tel: 022-23475050, 23449552  
Mobile: 09323149552, 09892057235  
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### Contact:

Engineering Hindustan, Navi Mumbai  
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#### Contact:

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#### Contact:

Hilex Industry (India) Pvt Ltd, Gurgaon  
Tel: 0124-4554896  
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of raw materials, these gears are ideally suited for demanding industrial conditions.

### Contact:

*Shubham Gears, Rajkot  
Mobile: 09426345898  
Email: shubhamegears@gmail.com*

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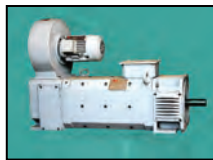


### Contact:

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## LAMYOK MOTOR

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### Contact:

*Bharath Electric Motors, Coimbatore  
Tel: 0422-2250948  
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## PLANETARY GEARBOXES

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### Contact:

*Transmatix, Mumbai  
Tel: 022-24376004, 32900255  
Mobile: 09930947541  
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### Contact:

*Concept Automation Private Limited, Kolkata  
Mobile: 09432437981, 08017985832  
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### Contact:

*Bristol Industrial Electronics, Delhi  
Mobile: 09312223289  
Email: bristolelectronics@rediffmail.com*

## MOTOR DRIVER

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### Contact:

*Yugandhar Systems, Pune  
Mobile: 09823037997  
Email: yugandharsystems@gmail.com*

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### Contact:

*Confident Automation, Coimbatore  
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### Contact:

Evergreen Exports, New Delhi  
Tel: 011-23934482  
Mobile: 09810047336  
Email: evergreen@vsnl.com

## AUTOMOBILE GAS SAVER

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### Contact:

S Vagadia Innovatives, Rajkot  
Mobile: 09925125625  
Email: info@svinnovatives.com

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### Contact:

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### Contact:

Canco Fasteners, New Delhi  
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### Contact:

Renu Electricals, Mumbai  
Tel: 022-64516502  
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motors are available in range of 0.18 kW to 11 kW having frame from 63 to 180L in 2, 4, 6, 8, 10 and 12 poles.

### Contact:

Amit Electricals, Ahmedabad  
Mobile: 09824003939, 09824244594  
Email: info@amitelectricals.com

## INDUSTRIAL COMMUTATOR MOTORS

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extensively required in TENV and TEC enclosures depending on their applications.

### Contact:

J D Automation, Pune  
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### Contact:

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### Contact:

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## AUTO TRANSFORMER

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### Contact:

Servokon Systems Limited, Ghaziabad  
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construction having excellent short circuit capabilities.

### Contact:

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### Contact:

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## GENERAL PRODUCTS

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#### Contact:

Ace Engineering & Chemicals Private Limited, Indore  
Mobile: 09826061669, 09826078922  
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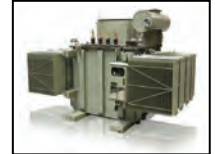


### Contact:

**BVM Technologies Pvt. Ltd., Ghaziabad**  
Tel: 0120-4560135 Mobile: 09810920116  
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## INDUSTRIAL TRANSFORMERS

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### Contact:

**Divya Electrical Transformers And Services Pvt. Ltd., Hyderabad**  
Tel: 040-23073630 Mobile: 08142433772  
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### Contact:

**Power Engineers And Consultants, Ludhiana**  
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## ELECTRIC CONTROL PANEL

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### Contact:

**Tricon Enterprises, Mumbai**  
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### Contact:

**E & A Engineering Solutions Pvt. Ltd., New Delhi**  
Tel: 011-49091922  
Mobile: 09711176936  
Email: sales@eaengineeringsolutions.com

## SWITCHBOARDS PANEL

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### Contact:

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Email: etechnoida@gmail.com

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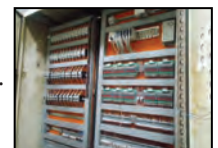


### Contact:

**Pristine Engineering Services Pvt Ltd, Mumbai**  
Mobile: 09867018848  
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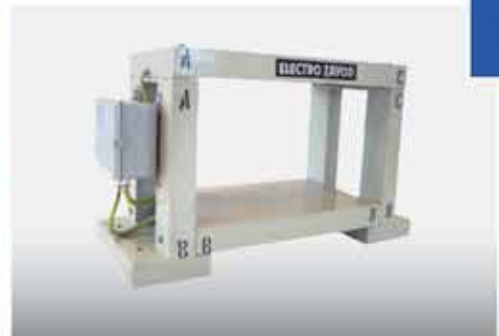
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- Escorts have been manufacturing Electro - Pneumatic Brake systems for more than three decades.
- Its features include: Rapid application and release of brakes; graduated application and release; auto control for fail safe operation in electrical failure.

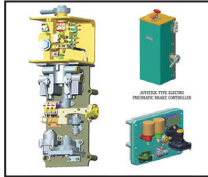
**About the company:** From a small agency house in 1944 to one of the largest engineering conglomerates in India, the saga of our ascent is entwined in the evolving dynamics of India's economic progress. In a journey of seven pioneering decades, we have reshaped, redefined and reinvented, the way India lives, works and travels.

### Contact:

Escorts Kubota Limited, Faridabad

Tel: 0129-2576000, 2232148

Email: ekl\_ex.railheadoffice@escortskubota.com



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## RAIL RUBBER PAD

Chamunda Enterprise offers a wide range of rail rubber pad.

### Features:

- They are engaged in offering an exclusive assortment of heavy duty railway components like rail rubber pad 1 meter long. These plates are made using superior quality rubber and plastic material, reducing shocks of vibration of a passing train.
- Rail pads are made from a variety of both natural and synthetic elastomers to meet the precise demands of the operating environment from high-speed track to maintenance bays.
- A rail pad, also called rail rubber plate, is designed between the rail tie plate and foot of the rail, made by an elastic polyurethane mat, which is interposed between steel rails and tie sleepers to protect the sleeper top from wearing and impacting.

**About the company:** Incepted in the year 2015, in Kolkata, "Chamunda Enterprise", are a sole proprietorship firm, engaged in manufacturer, trader and exporter a wide array of railway hand planar lock, railway vertical rope wheel, railway lifting barrier gate, etc.

### Contact:

Chamunda Enterprise, Howrah

Mobile: 09674437382



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## RAILWAY PLATE SCREW

Rail Udyog offers a wide range of railway plate screw.

### Features:

- They are engaged in manufacturing and supplying a wide range of plate screw and screw spikes.
- Designed with high precision and processed under advanced technologies these screws are manufactured using high graded raw materials satisfying all the quality standards. With reliability, robustness and effective performance these products can ideally be used in railway engineering.
- We are engaged in manufacturing and supplying a wide range of Railway Track Fittings. Fabricated with high quality raw materials, these railway components are very durable, corrosion & abrasion resistant and robust in nature. Available in various dimensional features with welding facilities, these railway track fittings are also customized as per the clients approach.

**About the company:** Rail Udyog is proudly associated with the manufacturing and supplying of Railway Products, Wagon Components and Ancillary Items. Located in the city of Kolkata, we have been created a distinct recognition in the domestic as well as international market since 1973.

### Contact:

Rail Udyog, Howrah

Mobile: 08037303443

Email: rail\_udyog@yahoo.co.in



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## FRP MODULAR TOILETS

Universal Engineers offers a wide range of FRP modular toilets.

### Features:

- Universal Engineers manufactures state-of-the-art products, which are of wide range, catering to the future market demands and requirements.
- Doors allow passengers to gain access and leave the passenger train. Universal Engineers has mastered the art of manufacturing doors for passengers to have the safest experience.

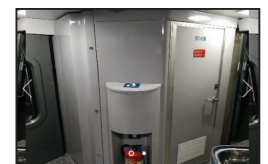
**About the company:** Universal Engineers had successfully delivered Turnkey Projects for Train 18 (Vande Bharat Express) comprising of nose cone structures, continuous windows, PVC Flooring and mini-Pantry equipment. We have also successfully delivered Vista dome Coaches where our scope involved complete Car body parts, interiors, panoramic windows, sun roof, executive rotatable chairs, PAS/PIS, CCTV, luggage racks etc.

### Contact:

Universal Engineers, Chennai

Tel: 044-26252158

Email: director@universalengineers.in



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## GENERAL PRODUCTS

### LIGHT COMMERCIAL VEHICLES

Sarveshwari Technologies offers a wide range of wheel alignment machines (WA 50) for cars and light commercial vehicles. This machine has smart key LCD display and real-time toe-in camber



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display; level indicator; battery percentage display; battery status indicator; low battery warning light.

#### Contact:

Sarveshwari Technologies Ltd, Delhi

Tel: 011-27023750, 27021499

Email: info@garageequipments.com

### CAR PARKING LIFT

New National Hydraulics offers a wide range of single post hydraulic car parking lifts. A superior quality range of single post hydraulic car parking lifts is offered, used for the vertical



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transportation of vehicles.

#### Contact:

New National Hydraulics, Noida

Mobile: 09811553201, 08506070450.

Fax: 0120-4215072.

Email: nationalhydraulics@gmail.com,

info@nationalhydraulics.co.in

### BEST CHOICE FOR PROCESS AND TEMPERATURE CONTROL



DIGITAL POWER REGULATOR

FOTEK TAIWAN



PHOTO ELECTRIC SENSOR, MARK SENSOR, SAFETY GUARD INDUCTIVE/CAPACITIVE SWITCH, SOLID STATE RELAYS, ROTARY ENCODER

#### TAIE PID Controllers



FY/FU Series Series

LINE LINE SEIKI



ELECTRONIC COUNTERS TALLY COUNTERS TACHOMETERS



KA 301

Universal Converter  
USB to RS-232/422/485/TTL

OPTEX JAPAN

PHOTO ELECTRIC SENSORS  
DISPLACEMENT SENSORS  
VISION SENSORS ETC.



#### TEMPERATURE TRANSMITTER



VOLTAGE : 12-40 VDC INPUT:  
UNIVERSAL/RTD/TC  
OUTPUT:4-20mA

TT-213M

MW

MEAN WELL

SMPS TAIWAN



Shivam Electronics

IMPORTER, DISTRIBUTOR & STOCKISTS

204, Triveni Complex, 2, Veer Savarkar Block, Shakarpur, Delhi 110092.

Office Ph. No. : 011-40109245, 9958300083, Mob.: +91 98100 22969, 99995 39957

E-mail: sales@shivamelectronics.com | gaurav@shivamelectronics.com

Website: www.shivamelectronics.com

THINK SAFETY  
THINK KUSAM-MECO®

## BATTERY TESTER MODEL- KM 950

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An ISO 9001:2015 Company

#### SPECIAL FEATURES :

- 12V & 24V Car Battery Analyzer with Printer
- Test 12V & 24V Cranking and Charging Systems
- Test Function : Battery Resistance, Voltage, CCA, Health & Charge
- Cold Cranking Amps Measuring range :  
DIN/IEC : 100-1400A JIS : 26A17-245H52  
CCA/BCI/CA/MCA/EN/SAE : 100-2000A GB : 30Ah-220Ah
- Support : 12V car Lead-acid battery (AGM, GEL, EFB)
- Analysis result : Good Battery, Good Recharge, Charge Retest, Replace Bad Cell & Replace Battery.
- Auto save latest one time testing result
- Print out result directly (built in printer)
- One-click function key: shortcut for 2 quick function including voltmeter and quick test.
- Protection of short-circuit and reverse connection
- Test battery in & out of vehicle.



#### Replace

| TEST REPORT           |            |
|-----------------------|------------|
| BATTERY TEST          |            |
| REGULAR FLOOD BATTERY |            |
| VOLTAGE:              | 13.87V     |
| SELECT INPUT:         | CCA        |
| RATED:                | 500A       |
| MEASURED:             | 105A       |
| INTERNAL R:           | 27.89mΩ    |
| REPLACE               |            |
| STATE OF HEALTH:      | 100%       |
| STATE OF CHARGE:      | 100%       |
| CLIENT:               |            |
| TEST DATE:            | 2023/08/18 |
| BY:                   | 19:13:55   |

#### Good

| TEST REPORT           |            |
|-----------------------|------------|
| BATTERY TEST          |            |
| REGULAR FLOOD BATTERY |            |
| VOLTAGE:              | 13.07V     |
| SELECT INPUT:         | CCA        |
| RATED:                | 100A       |
| MEASURED:             | 114A       |
| INTERNAL R:           | 25.70mΩ    |
| GOOD BATTERY          |            |
| STATE OF HEALTH:      | 100%       |
| STATE OF CHARGE:      | 100%       |
| CRANKING TEST         |            |
| CRANKING:             | NORMAL     |
| VOLTAGE:              | 10.00V     |
| TIME:                 | 500ms      |
| CHARGING TEST         |            |
| CHARGING:             | LOW        |
| LOADED:               | 13.9V      |
| UNLOADED:             | 13.21V     |
| RIPPLE:               | 13mV       |
| CLIENT:               |            |
| TEST DATE:            | 2023/08/23 |
| BY:                   | 19:23:54   |



Shop No.18, 1st Floor,

CIDCO Shopping Complex, Plot # 9,

Sector-7, Rajiv Gandhi Marg, Sanpada, Navi Mumbai-400705.

Tel : (022) 27754546, 27750662, 27750292 E-mail : sales@kusam-meco.co.in

www.kusamelectrical.com

## COATED STEEL WIRE

Bansal Wire Industries is engaged in manufacturing a wide range of copper coated steel wire. Their high intensity is twice better than pure copper wire. If the tensile strength of pure copper wire



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is about 215 to 265, then CCS can reach 430 to 530; lighter 13 per cent than pure copper wire.

### Contact:

**Bansal Wire Industries Ltd, Ghaziabad**  
Mobile: 09717494073  
Email: info@bansalwire.com

## CO<sub>2</sub> WELDING WIRE

Precise Alloys Pvt Ltd offers a wide range of CO<sub>2</sub> welding wire. These are solid steel MIG welding wires with thin and double de-oxidised uniform copper coating to offer



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continuous welding. These wires come with CO<sub>2</sub> shield gas on unalloyed and structured steel.

### Contact:

**Precise Alloys Pvt. Ltd., Boisar**  
Mobile: 09821233381  
Email: precise\_alloys@sancharnet.in

## SUBMERSIBLE FLAT CABLE

Veer Industries is a provider of a wide range of three core flat submersible cable. The offered cable is mainly used for winding of submersible pump motors. The slot available in the tube well being narrow the shape of the cables has to be suited for such an application.



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### Contact:

**Veer Industries, Delhi**  
Tel: 011-28823501  
Mobile: 09810317562  
Email: veerindustries09@gmail.com

## RUBBER CABLES

Bhuwal Cables offers a wide range of supreme quality composite rubber cable. The composite rubber used in the cable approved by the IS: 9968 (Pt-1)/88 ISI standards. Quality silicon rubber is used for insulation to protect the cables from water and ensure high tensile strength.



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### Contact:

**Bhuwal Cables Ltd, Mumbai**  
Tel: 022-66595907 F  
ax: 022-23809236  
Email: sales@bhuwalinsu.com

## SOLAR CABLE

Siechem Technologies offers water rodent terminate and UV resistant solar cable. This cable is electron beam cross-linked; water and rodent resistant; UV, water, ozone, fluids, oil and salt resistant; used for direct burial. Halogen free and low smoke emission; fire retardant; highly flexible and easily strippable; RoHS compliant as per EU norms.



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### Contact:

**Siechem Technologies Pvt. Ltd., Chennai**  
Mobile: 09840637747  
Email: sales@siechem.com

## SCREEN CABLES

Electro Cables Industries offers a wide range of screen cables. The production process of these cables involves a hot-dip galvanisation and uninterrupted monitoring of the cables to make sure that the zinc coating is uniform and smooth, using quality adhesives.



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### Contact:

**Electro Cables Industries, Indore**  
Tel: 0731-4027510  
Mobile: 09479445990  
Email: skjain@wincables.com

## WELDING GENERATORS

Delhiwala Zaheeruddin Jamaluddin offers a wide range of welding generators. Being suitable for use in sites with no electricity, these generators can be provided with welding rate of 200 Amp, 250 Amp and 400 Amp and in power options like 10, 12, 22 hp.



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### Contact:

**Delhiwala Zaheeruddin Jamaluddin, Mumbai**  
Mobile: 09167468837  
Email: delhiwalazi@yahoo.com

## CONTROL PANEL

Lucsam Services provides a wide range of diesel generator set control panel. These diesel generator set control panels are suitably inspected in varied characteristics to ensure its adherence with the highest quality norms and standards.



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### Contact:

**Lucsam Services Pvt. Ltd., Mumbai**  
Mobile: 09930963317, 09167497940  
Email: contact@lucsam.net



## GENERAL PRODUCTS

### DIE SETS

Fibro India Precision Products offers a wide range of high quality die sets. These high quality die sets are manufactured from premium grade raw



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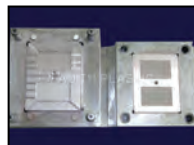
materials on high-end machines. A flawless range of die sets is offered to meet the diverse requirements of clients in various industries.

#### Contact:

*Fibro India Precision Products Pvt Ltd, Pune*  
Tel: 02135-670900  
Email: [info@fibro-india.com](mailto:info@fibro-india.com)

### INDUSTRIAL MOULDS

Adith Plastic offers moulds for industrial electronic parts. These moulds for industrial electronic parts are of highest quality and manufactured in a wide range. They are designed and



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manufactured by professionals using best quality raw materials at a well-established manufacturing unit.

#### Contact:

*Adith Plastic, Mumbai*  
Mobile: 09821230980, 09664093729  
Email: [adithplastics@gmail.com](mailto:adithplastics@gmail.com)

## SPRING WASHERS

Get the Power of Perfect Assembly !!!



**CARBON®**  
SPRING WASHERS

Available in sizes from 2.5 mm. to 50 mm.

**Special combi-size washers are also available in all sizes.**

- Material : Spring Steel (EN-42 B) and Stainless Steel SS-304
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Tel. : 0731 4046226, 2721527, Cell. : 09993555087

e-mail : [khanwalkar08@gmail.com](mailto:khanwalkar08@gmail.com)

[www.khanwalkarindustries.com](http://www.khanwalkarindustries.com)

## THE INDUSTRY'S CHOICE FOR UNMATCHED BONDING STRENGTH

Parson Adhesives India Private Limited is a business unit of Parson Adhesives, Inc., USA. Parson Adhesives is one of the leading manufacturers of a wide range of high-performance engineering and structural adhesives and sealants.

The Parson range of adhesives is currently used by many large companies in countries like the USA, Germany, France, Italy, the UK, Turkey, Brazil, Mexico, China, Taiwan, and India.

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Parson products have been well-established in more than 56 countries for three decades around the world



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Business Unit of PARSON ADHESIVES, INC. USA

B-2 / 9, Krishna Industrial Estate, Opp BIDC, Gorwa, Vadodara, Gujarat 390016

Email: [sales@parsonadhesives.in](mailto:sales@parsonadhesives.in) | Website: [www.parsonadhesives.in](http://www.parsonadhesives.in)

Phone: 9428511765 | 9408354185

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**PARLITE®**  
UV Curable Adhesives

**PARCON®**  
Silicone Sealants

**PARSEAL®**  
Impregnation Sealants

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## INDUSTRIAL POWER TRANSFORMERS

TMA International trades and exports a wide range of power transformers. It is an electrical device that transfers electrical energy



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between two or more circuits through electromagnetic induction.

### Contact:

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

## FILTER PRESS

Filtereno Engineering Co offers an array of zero hold up filter press. These filters are manufactured using excellent quality components and the latest technology by our skilled professionals.



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In order to ensure quality, these filters are stringently tested on various parameters.

### Contact:

**Filtereno Engineering Co, Mumbai**  
Tel: 022-65618854, 65618800  
Mobile: 09819241506, 08452917256  
Email: info@filtereno.com

## SS FILTER

Dynamic Enterprises offers a wide range of SS Filter. These products are used for the process of water clarification to fine ink pigment classification, or removal of contaminating solids from natural gas. These are available in different sizes and designed, and can be



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customised as per the specifications given.

### Contact:

**Dynamic Enterprises Inc, Pune**  
Tel: 020-24213958  
Mobile: 09422004253, 09922043110  
Email: dynamicenterprisesinc@hotmail.com

## HEPA FILTER

R S Airfiltrec offers a wide range of hepa filter. This product is used in industries like pharmaceutical and hospitals for filtration of moisture and dust particles accurately. Typical applications can be found in:



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microelectronics, semiconductor manufacture, medicine, chemistry, pharmacy, microbiology, etc.

### Contact:

**R S Airfiltrec Private Limited, Bengaluru**  
Mobile: 09916080779, 09483003009  
Email: sandeepn1990@gmail.com

## TACKY CHAIN OIL

Chem-Verse Consultants (India) offers energy saving tacky chain oil. CVC viscolube (P) is highly viscous synthetic tacky chain oil, specially designed for the lubrication of chains, sprockets bearings, etc. in the printing press.



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### Contact:

**Chem-Verse Consultants (India) Pvt Ltd, Mumbai**  
Tel: 022-24095503, 24033387  
Mobile: 09820532875  
Email: sales@chemverse.com

## HYDRAULIC OIL

See Lube Technologies offers a wide range of ST hydraulic oil. ST kool range of hydraulic oils are blended from highly refined base stock and carefully selected antioxidant, antiwear, antirust, antifoam additives. These have a long service life and ensure excellent system efficiency as well as longevity.



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### Contact:

**See Lube Technologies Pvt Ltd, Ludhiana**  
Tel: 0161-2675525, 5004600  
Mobile: 08054101000, 09814005307  
Email: info@seelube.in, info@seelube.com

## OIL SKIMMER

Star Trace offers a wide range of oil skimmer. Star trace has developed disc type cost effective oil skimmers for removing floating tramp oil from machine tool coolant tanks. The disc driven by double



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reduction worm geared motor and the disc is partially submerged in the soluble coolant.

### Contact:

**Star Trace Pvt Ltd, Chennai**  
Mobile: 09380521567, 09841015456  
Email: sales@startrace.in

## OIL RECIRCULATING SYSTEMS

Lubsa Multilub Systems offers oil recirculating systems. In OCS, the gear pump/screw pump discharge up to 500 LPM driven by electric motor is used; pump is connected with reservoir.



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In line filter, cooler and other control with the gauge fitted by standard tubing and fitting on strid.

### Contact:

**Lubsa Multilub Systems Pvt Ltd, Faridabad**  
Tel: 0129-6460247  
Mobile: 09899451247, 09212566247  
Email: info@lubsa.co.in



## GENERAL PRODUCTS

### SAND CASTINGS

B K Tech Enterprise Inc offers sand castings. This product is available in a wide range to meet a wide variety of applications. It is extensively used for conventional moulding and metal



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casting processes. The range is manufactured in accordance with the industry norms.

#### Contact:

B K Tech Enterprise Inc, Rajkot  
Mobile: 096628-61959  
Email: sales@bktechenterprise.com

### PUMP CASTINGS

Supercast Industries offers a wide range of pump castings in aluminium. The aluminium pump castings are available in a superior quality range, with high strength, rust resistance, ruggedness and



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durability. They are checked for quality on various parameters as per industry norms.

#### Contact:

Supercast Industries, Mumbai  
Mobile: 096650-94970, 09326474970  
Email: response@supercastind.com

## Customised Solutions **classic**

Well engineered components for :

- ✓ Better Productivity
- ✓ Increased Profitability
- ✓ Prompt Delivery
- ✓ Zero Wastage

#### PRODUCT PROFILE :

Cast / Extruded Nylon,  
Polyacetal, PTFE,  
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High Density Polyethylene,  
Polycarbonate,  
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**Components Produced from AARKAYMID®**  
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Email : classicpolymers@hotmail.com Web : www.classicpolymers.co.in

ISO 9001 - 2015 CERTIFIED COMPANY

# 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.
- General** : For clean rooms upto class 1,00,000 without changing existing blower capacity of air-conditioning system.

### **Powertech Pollution Controls Pvt. Ltd.**

22/3, Rajanna Building, Munikrishnappa Road, Ramachandrapura, Jalahalli Post, Bangalore - 560 013, Karnataka, India.

Landline: +91-080 23452156, 23452256, 23452445, Cell : + 91 9986048891, 9845572990, 9844132772, 7066083083

E-mail: philipthomas@powertechindia.com, philip@powertechpollutioncontrols.co.in | Website: www.powertechindia.com

## CASTING COMPONENTS

Micro Melt offers a wide range of auto parts casting components. The auto components manufactured at its unit are highly suitable for several industrial sectors, mainly automobiles. Experienced and skilled



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professionals are on board to do research on latest market trends, and they design casting components accordingly.

### Contact:

Micro Melt Pvt Ltd, Veraval

Mobile: 09825415355

Email: info@micromelt.com

## DIE SETS

Fibro India Precision Products offers a wide range of high quality die sets. These high quality die sets are manufactured from premium grade raw materials on high-end machines. A



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flawless range of die sets is offered to meet the diverse requirements of clients in various industries.

### Contact:

Fibro India Precision Products Pvt Ltd, Pune

Tel: 02135-670900

Email: info@fibro-india.com

## CUSTOMISED TOOLING SOLUTIONS

Delta Small Tools & Engineering offers a wide range of customised tooling solutions. The range includes chill vents, 2D/3D core pins, sleeves, sliders for die casting dies/



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moulds, precision punches, and die inserts for cold forging applications.

### Contact:

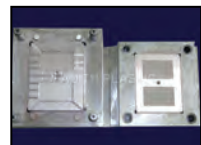
Delta Small Tools & Engineering Pvt Ltd, Pune

Mobile: 09890449225

Email: deltatools@hotmail.com

## INDUSTRIAL MOULDS

Adith Plastic offers moulds for industrial electronic parts. These moulds for industrial electronic parts are of highest quality and manufactured in a wide range. They are designed and



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manufactured by professionals using best quality raw materials at a well-established manufacturing unit.

### Contact:

Adith Plastic, Mumbai

Mobile: 09821230980, 09664093729

Email: adithplastics@gmail.com

## INJECTION MOULDS

Innovative Moulds & Dies offers a wide range of hot runner injection moulds. The products' applications range from micro-sized nozzles to very large automotive parts and shipping



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containers. Hot runners are fairly complicated systems due to the requirement of heating and cooling within the system. **Contact:**

Innovative Moulds & Dies, Chennai

Mobile: 09840914445

Email: info@innovamoulds.in

## SAND CASTINGS

B K Tech Enterprise Inc offers sand castings. This product is available in a wide range to meet a wide variety of applications. It is extensively used for conventional moulding and metal



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casting processes. The range is manufactured in accordance with the industry norms.

### Contact:

B K Tech Enterprise Inc, Rajkot

Mobile: 096628-61959

Email: sales@bktechenterprise.com

## STAINLESS STEEL CASTINGS

Gravity Cast offers stainless steel castings. High grade raw materials are used like cast steel, SS 316, SS 304, SS 410, bronze (g.M), pH, and WCB. The products are available in different



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specifications as per the requirements of customers.

### Contact:

Gravity Cast Pvt Ltd, Rajkot

Tel: 02827-253037

Mobile: 09375324868, 099090-28121

Email: info@gravitycastindia.com

## PUMP CASTINGS

Supercast Industries offers a wide range of pump castings in aluminium. The aluminium pump castings are available in a superior quality range, with high strength, rust resistance, ruggedness and



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durability. They are checked for quality on various parameters as per industry norms.

### Contact:

Supercast Industries, Mumbai

Mobile: 096650-94970, 09326474970

Email: response@supercastind.com



## GENERAL PRODUCTS

### CASTING COMPONENTS

Micro Melt offers a wide range of auto parts casting components. The auto components manufactured at its unit are highly suitable for several industrial sectors, mainly automobiles. Experienced and skilled



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professionals are on board to do research on latest market trends, and they design casting components accordingly.

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Micro Melt Pvt Ltd, Veraval

Mobile: 09825415355

Email: info@micromelt.com

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moulds, precision punches, and die inserts for cold forging applications.

#### Contact:

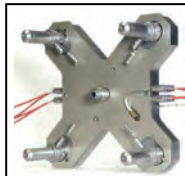
Delta Small Tools & Engineering Pvt Ltd, Pune

Mobile: 09890449225

Email: deltatools@hotmail.com

### INJECTION MOULDS

Innovative Moulds & Dies offers a wide range of hot runner injection moulds. The products' applications range from micro-sized nozzles to very large automotive parts and shipping



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containers. Hot runners are fairly complicated systems due to the requirement of heating and cooling within the system. **Contact:**

Innovative Moulds & Dies, Chennai

Mobile: 09840914445

Email: info@innovamoulds.in

### STAINLESS STEEL CASTINGS

Gravity Cast offers stainless steel castings. High grade raw materials are used like cast steel, SS 316, SS 304, SS 410, bronze (g.M), pH, and WCB. The products are available in different



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specifications as per the requirements of customers.

#### Contact:

Gravity Cast Pvt Ltd, Rajkot

Tel: 02827-253037

Mobile: 09375324868, 099090-28121

Email: info@gravitycastindia.com



### Pressure Transmitters

Our wide range of pressure transducers, pressure transmitters and pressure sensors incorporate the superior Silicon-on-Sapphire sensor technology to make one of the most advanced ranges available in the market. Vacuum to 5000 Bar

MADE IN UK



#### APPLICATIONS

- Aerospace, automotive, cleanroom, differential digital USB
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- Low pressure
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- Wireless transmitters.



### Pressure Switches and Transmitters



#### FEATURES

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- Distributor Since 1998

### ADROIT TECHNOLOGIES

Email: sales@theadroittechnologies.com

Contact: 9663395186, 7708732904

## CENTRIFUGAL CASTING SLEEVES

Manek Investment Cast offers a wide range of centrifugal casting sleeves. These are designed and manufactured using top class raw materials and cutting edge technology under the guidance of skilled professionals.



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### Contact:

Manek Investment Cast Pvt Ltd, Rajkot  
Mobile: 07567047001, 09586326808  
Email: manekcasting2011@gmail.com, manekcasting@yahoo.com

## CUTTING DIES

Tool Masters India offers a superior range of thread cutting dies. These thread cutting dies are extensively used in precision thread rolling of fasteners, auto-parts and other components. The entire range of thread cutting dies is made using cold work tools steel and high-speed steel (M2) with the help of a team of experts.



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### Contact:

Tool Masters India, Patiala  
Mobile: 09815941718  
Email: toolmasters@gmail.com

## FORGED STEEL BARS

Sunil Forging & Steel Industries offers forged steel bars. This range of forged steel bars provide dimensional accuracy and corrosion resistance. The precision designed stainless steel round bars are designed with the latest technology.



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### Contact:

Sunil Forging & Steel Industries, Navi Mumbai  
Tel: 022-27401642  
Mobile: 09920329981  
Email: info@sunilforgings.com

## PLASTIC MOULDS

Vikas Industries provides a comprehensive array of plastic moulds. These products are widely used in the designing of PVC blocks. They are precisely fabricated by professionals



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using best grade components and innovative technology.

### Contact:

Vikas Industries, Mumbai  
Mobile: 09821036215, 09821666215  
Email: response@vikasindus.com

## FORGINGS

MM Forgings Ltd offers a wide range of forgings. The company has the expertise in forging wide variety of components. It also manufactures steel forgings in raw, semi-machined and fully machined stages in various grades of carbon, alloy, micro-alloy and stainless steels in the weight range of 0.20 kg to 60 kg.



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### Contact:

MM Forgings Limited, Chennai  
Tel: 044-71601000  
Fax: 044-71601010  
Email: corporate@mmforgings.com

## ALUMINIUM CASTINGS

Rajshi Technologies India Pvt Ltd offers a wide range of aluminium castings. These casting applications are making effective use of aluminum as a metal it is not only superior in performance but also offers low cost-to-production ratio.



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### Contact:

Rajshi Technologies India Pvt Ltd, Greater Noida  
Mobile: 09999240518  
Email: abhinav@rajshiindustries.com

## TUBE DRAWING DIES & PLUGS

Tube Drawing Dies & Plugs offers a wide range of tube drawing dies & plugs. This tube drawing dies exclusively used for making pipes and tubes of metals of various composition and nature.



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### Contact:

Verma Dies Exports, Ludhiana  
Tel: 0161-4624228, 4624228  
Mobile: 09888498988  
Email: info@vermadiesexports.com, vermadiesexports@gmail.com

## MOULD BASE DIE SET

Vardhman Dies And Mould Tools offers a wide range of mould base die set. This mould base die set provides the best possible service to their mould bases die set users, not only in quality and accuracy but in early delivery as well.



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### Contact:

Vardhman Dies And Mould Tools, Thane  
Tel: 022-30911015  
Mobile: 09324061804  
Email: sales@vardhmandiesandmouldtools.com



## FEATURED PRODUCTS

### NATURAL COW GRAIN DRIVER GLOVE -BE2258

Mallcom India Ltd offers a wide range of natural cow grain driver glove -BE2258.

#### Features:

- Metacarpal protected high cut resistant leather driver gloves glass fiber blended para-aramid lining inside orange flexible "SIMUM" metacarpal for seamless performance Natural grain Leather elasticized back.
- Impact resistant guard ensures safety from falling objects and other mechanical injuries to the user.
- Provides good mechanical resistant and comfort. Chromium VI free leather according to EN 420:2003 + A1:2009.

**About the company:** Mallcom (India) Ltd is India's leading personal protective equipment (PPE) brand. Having a presence in more than 50 countries in 6 continents, Mallcom has established itself as the integrated manufacturer and distributor for head to toe protection and is a valued partner for major importers in their brand name.

#### Contact:

Mallcom India Ltd, Kolkata

Tel: 033-40161005/1077

Mobile: 09147157136

Email: [sofia.chatopadhyay@mallcom.in](mailto:sofia.chatopadhyay@mallcom.in), [safety@mallcom.in](mailto:safety@mallcom.in)



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## TECHNICALLY RELIABLE PRODUCTS

We Design Drives, Manufacture Pulleys In All Pitch For Timing Belts Hob Cut With Imported Cutters Conforming To International Standard, Special Vee Belt & Flat Belt Pulleys & Any Belt Pulley As Per Drawing.

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B-2, Alaukik Flats, Near Dwarkesh Tower, Judges Bungalows Road, Bodakdev, Ahmedabad 380 015. Mobile: 9925111749  
Telefax: +91-79-26870311 E-mail: [sales@kwedos.com](mailto:sales@kwedos.com) / [info@kwedos.in](mailto:info@kwedos.in)

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61, Phase-1, GIDC, Industrial Estate, Vatva, Ahmedabad - 382445, Gujarat. India. +91 79 40200800 | +91 90990 86064  
[marketing@pafitube.com](mailto:marketing@pafitube.com)



**PATELS AIRFLOW LIMITED**

[www.pafitube.com](http://www.pafitube.com)

## EXTRACTOR ARM

Powertech Pollution Controls Pvt Ltd offers a wide range of extractor arm.

### Features:

- The Extractor Arm is device which allows the user to position a suction hood to capture fumes or dust close the generation spot with complete ease and flexibility.
- This highly useful accessory may be used with the Fumekiller(R) and DustBag(R) units maintenance and running costs are low as all components are built for continuous, reliable, safe and efficient use. These systems contribute to a safer, healthier work environment where toxic airborne pollutants are removed. We provide excellent factory support and product expertise based on years of industrial process emission control.
- The Extractor Arm consists of 2 ducts made of aluminium or stainless steel, connected by PVC flexible hoses and mounted on interconnected support rods with friction-loaded pivots. A suction hood is attached to one end. The other end is attached to a rotating hollow cylinder. The suction hood, ducts, hose and rotating cylinder form a passage for the fumes or dust. The entire arm is self balanced and articulated at 3 points.
- This allows the suction hood to be positioned by hand at any point with a reach of 2 meters (or 4 meters) to & fro an 2 meters (or 4 meters) up & down with complete ease & flexibility with minimum effort. The Extractor Arm can be fitted to most of our Fumekiller(R) models & Dustbag(R) models.
- The arm can also be fitted to overhead ducting to provide suction points close to the flow level for the capture of fumes or dust from pollution generation spots.



**About the company:** Powertech Pollution Controls Pvt Ltd was established in the year 1996, for the design and manufacture of a wide range of air pollution control equipment, specifically electrostatic filters, for the capture and control of most types of fumes, mist, smoke and fine dust, generated on the shop floor, during the production process. Electrostatic filters are marked under the brand name of Fumekiller(R) and Dustkiller(R) throughout India and Abroad. These Filters may also be used for Clean Room applications of upto Class 1,00,000, and as efficient prefilters for higher class of Clean Rooms (where the life of expensive terminal HEPA filters can be extended by about 3 times).

### Contact:

Powertech Pollution Controls Pvt Ltd,  
Bangalore  
Tel: 080-23452156, 23452256  
Email: [powertech@airtelmail.in](mailto:powertech@airtelmail.in),  
[philipthomas@powertechindia.co](mailto:philipthomas@powertechindia.co)

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## TRUE POWER RELIABILITY

Phoenix Contact India Pvt Ltd offers a wide range of

true power reliability a reliable solution for machine building by Phoenix Contact.

### Features:

- In recent years, one of the core goals for machine building industries around the globe has been to build more sustainable manufacturing processes.
- One of the biggest challenge for the manufacturing industries is implementing highly-reliable power solutions at their research and manufacturing facilities that not only support sustainability goals, but also improve competitiveness by reducing costs, reducing energy price volatility, and providing other value-added benefits to the manufacturing process.
- Now a days industries are using more and more automation products to get effective and efficient results but more electronics are more prone to surges and availability.
- Phoenix Contact offers reliable power solutions for the Machines& Equipment's -
- Robust surge protection devices to protect the machines against surges & Lightnings. Rugged power supply for superior system availability. UPS solution assuring seamless operation with best-in-class power buffering, backup, and redundancy. Device circuit breakers to ensure equipment availability against short circuit & overloads. Multifunction Energy Meters for Monitoring of Power Quality.
- Advantages include: Reduce complaints; Early fault detection; Reduce downtime & Increase system availability; Real time monitoring.

**About the company:** Phoenix Contact India Pvt Ltd are the global market leader and innovator for electrification, networking, and automation on the path to a smart world. Phoenix Contact India Pvt Ltd are the global market leader and innovator for electrification, networking, and automation on the path to a smart world. Connecting, distributing, and controlling power and data flows - we have been developing the right products for this purpose since 1923. Whether in industrial production facilities, in the field of renewable energies, in infrastructure, or for complex device connections: our solutions are used wherever processes must run automatically. Above and beyond their pure function, they help our partners to develop sustainable applications with more efficient processes and reduced costs.

### Contact:

Phoenix Contact India Pvt Ltd, New Delhi  
Tel: 011-71810700/800  
Email: [adverts@phoenixcontact.co.in](mailto:adverts@phoenixcontact.co.in),



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## FEATURED PRODUCTS

### TRUE PEEL® PE PREP TOOLS

Arizona Tools Company offers a wide range of True Peel® PE prep tools.

#### Features:

- Electrofusion requires the outside diameter of pipe to be clean and free of oxidation. The True Peel® PE Prep Tool removes dirt and oxidation from the outside diameter of the pipe in preparation for electrofusion. Its spring-loaded blade does not skip and it keeps consistent pressure on the pipe to yield a smooth, finished surface.
- These tools can be used on the ends of pipe or on tapping tee outlets. Each model is size specific for both pipe size and wall thickness.
- Its features include: prepares the ends of PE pipe and tapping tees for electrofusion; removes .009" - .012" peel thickness; spring actuated blade gives a complete peel, observation window indicates the completion of the peel; external cutting blade allows for clear observation of the peel removal; hardened tool steel cutting blade with two cutting edges for twice the life; close fitting mandrel to round pipe that may be oval; includes a protective carrying case.

**About the company:** Arizona Tools Company is a supplier of world renowned innovative and premium established tools.

#### Contact:

Arizona Tools Company, Kolkata  
Tel: 033-40013866  
Mobile: 09038081456, 09830030618  
Email: info@aztc.in



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### NON-ASBESTOS MILLBOARD

PGE Industries Pvt Ltd offers a wide range of non-asbestos millboard.

#### Features:

- Offered non-asbestos, non-ceramic millboard sheets for high-temperature applications. The millboards are available in both sheet and cut gasket form.
- These millboards are used for heat shields in molten metal casting, General gaskets in domestic appliances, Sacrificial linings in aluminium melting pots, High-temperature gaskets and seals, Ovens, and Furnaces applications.

**About the company:** Established in 1981, PGE India (PILOT Gaskets) is the prominent manufacturer of sealing and insulating products.

#### Contact:

PGE Industries Pvt Ltd, Mumbai  
Mobile: 08080890022  
Email: info@pilotgaskets.com



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## BARREL PUMP

Hacop Pumps offers electric barrel pumps. This electric barrel pump is used for removing the liquid contents from a standard barrel without spillage. The drive is particularly suitable for intermittent



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operation and equipped with inbuilt thermal protection to prevent the motor from burning.

### Contact:

*Hacop Pumps Pvt Ltd, Pune  
Mobile: 08408033553  
Email: hacoppumps@gmail.com*

## INDUSTRIAL HDPE PIPES

Haffer Electro Plast offers a wide range of industrial HDPE pipes. These HDPE pipes in a high quality range for wide ranging applications. These tested high quality range of HDPE pipes are manufactured on



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modern machines, and are widely appreciated for accuracy in dimensions and sturdy construction.

### Contact:

*Haffer Electro Plast Pvt Ltd, Chennai  
Mobile: 09282168187, 09282168186  
Email: hafferelectroplast@rediffmail.com*

## AIR COMPRESSORS

Hallmark Compressor offers single stage air compressors. These single stage air compressors are a reliable source of low pressure air for numerous applications. They are designed to meet the needs of a variety of users



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who demand a constant and reliable source of low pressure air.

### Contact:

*Hallmark Compressor Pvt Ltd, Ahmedabad  
Mobile: 09687643303  
Fax: 079-25832627  
Email: info@airhallmark.com*

## TEMPERATURE CONTROL WITH SOLDER BATH

Hallmark Electronics offers solder bath with temperature control. This is engineered for various operations like tinning-cum-deep soldering. The device



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has a pot meter for variable setting, and is available in an extensive range of solder and wax bath.

### Contact:

*Hallmark Electronics, Pune  
Mobile: 09822353694, 08888827810  
Email: response@hallmarkelect.com*

## HEAVY INDUSTRIAL OVENS

Hansa Enterprises offers a wide range of heavy industrial ovens. The industrial ovens are manufactured in a wide range of sizes and specifications, using the best quality



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raw materials available and priced very reasonably.

### Contact:

*Hansa Enterprises, Bengaluru  
Tel: 080-28511454, 41158874  
Mobile: 09845030900  
Email: hansauv@yahoo.com*

## HARDENED & GROUND

Hans Machineries offers a wide range of pins, hardened and ground. These pins are small but vital parts in industrial machinery and manufacturing activity. It is available in



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a wide range and materials of construction.

### Contact:

*Hans Machineries Pvt Ltd, Howrah  
Tel: 033-26792105  
Mobile: 09432357682, 09432357681  
Email: machineries@hanspl.com*

## MOULDING DIES

Microcam Technoworld offers a wide range of rubber moulding dies. These dies are manufactured in an exclusive range to fulfil various application needs. Manufactured by experts using



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high grade raw materials and latest methodology as per the set industry standards and norms.

### Contact:

*Microcam Technoworld, Faridabad  
Mobile: 09873700136, 09810847725  
Email: micro\_cam@ymail.com*

## COMPONENT MOULDS

Innovative Moulds & Dies offers a wide range of plastic component moulds. These plastics component moulds manufactured for a wide variety of plastic products. Manufactured using best in class



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machinery and technology.

### Contact:

*Innovative Moulds & Dies, Chennai  
Tel: 044-42852146  
Mobile: 09840914445  
Email: info@innovamoulds.in*



## GENERAL PRODUCTS

### INJECTION MOULDINGS

Vikas Industries offers a wide range of plastic injection mouldings. These are in wide in demand, highly acclaimed for supreme strength, exceptional performance, compact design, and durability.



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#### Contact:

Vikas Industries, Mumbai  
Mobile: 09821036215, 09821666215  
Email: response@vikasindus.com

### SPINNER DIES

Regal Carbide Dies offers a wide range of spinner dies. These high quality spinner dies are made in tungsten carbide and used in wire cutting and straightening industries. Manufactured using genuine raw materials procured from well known vendors.



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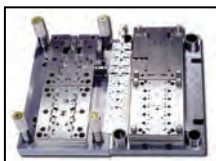


#### Contact:

Regal Carbide Dies Pvt Ltd, New Delhi  
Tel: 011-22143278  
Mobile: 09811312738, 09311312739  
Email: ankur@regaldies.com

### INDUSTRIAL COMPOUND DIES

Star Die Works offers a wide range of industrial compound dies. Manufactured from quality raw materials sourced from trusted vendors The products, available in



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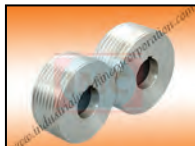
various sizes and specifications, meet the exact requirements of user industries, and can be customised as per needs.

#### Contact:

Star Die Works, Thane  
Mobile: 09321587008, 09594040362  
Email: stardieworks@rediffmail.com

### THREAD ROLLING DIES

Industrial Machinery Corporation offers a wide range of circular thread rolling dies. The circular thread rolling dies are manufactured as per customers' specifications and requirements.



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#### Contact:

Industrial Machinery Corporation, Ludhiana  
Tel: 0161-4643290  
Mobile: 09803987006, 09803987004  
Fax: 0161-4643290.  
Email: industrialmachinerycorporation@yahoo.com

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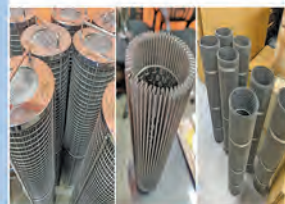
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## FILTRATION PRE FILTERS

A M Clean Air Engineering manufactures and supplies pre filters. Pre filters are used for coarse pre-filtration, provision against insects, textile fibres and coarse applications.



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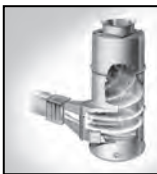


### Contact:

A M Clean Air Engineering Pvt Ltd,  
Chennai  
Tel: 044-24766282  
Mobile: 09381053037  
Email: chennaiairtech@yahoo.com

## SCRUBBER

Good Care Enviro System offers a wide range of venturi type scrubber. Dust laden gases enter the venturi and instantly make contact with the tangentially introduced scrubbing liquid swirling down the venturi's converging walls.



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### Contact:

Good Care Enviro System (P) Ltd, Chennai  
Tel: 044-23820479  
Mobile: 09444408287  
Email: goodcareenvirosystem\_116@yahoo.co.in

## DUST COLLECTOR

Hindustan Engineers offers a wide range of dust collector. An exclusive range of plant dust collector for large industrial as well as general commercial dust control offices. Gases, particle, and other substances are



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extracted and collected easily by the offered machine.

### Contact:

Hindustan Engineers, Chennai  
Tel: 044-25941188  
Mobile: 09884480707, 09500071919  
Email: hindustanengineerss@gmail.com

## INDUSTRIAL GAS SCRUBBER

AQC Systems Pvt Ltd is offering a wide range of industrial gas scrubber. This gas scrubber easily removes particulates and gases from industrial exhaust streams and has been developed using hi-tech parts.



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### Contact:

AQC Systems Pvt Ltd,  
Chennai  
Tel: 044-24333675, 24333775  
Mobile: 09380063339  
Fax: 044-24333775  
Email: aqcsystems@gmail.com

## BAG FILTER

Blowtech Engineers offers a wide range of cyclone bag filter. This elite cyclone bag filter system is used for a variety of fluid applications in the process industry. It is ideal for filtering large volumes of high viscosity liquids and the bag filter system is designed for optimum filtration performance for providing filtration solution for a broad.



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### Contact:

Blowtech Engineers Pvt Ltd, Thane  
Tel: 022-28458633  
Mobile: 09821295016, 09867823717  
Email: blowtech18@gmail.com

## FUME EXTRACTOR

Fine Fab India offers a wide range of portable fume extractor. A range of portable fume extractor, widely used for extracting the required airflow in chemical treatment process.



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### Contact:

Fine Fab India, Coimbatore  
Tel: 0422-2673459  
Mobile: 09894341473  
Email: finefabindia@eth.net

## EXTRACTION SYSTEM

Maxtech Engineers offers a wide range of fumes extraction system. A complete fume extraction system with its compete services including designing, engineering, supplying, erection and commissioning. Dimensionally accurate and perfectly suitable for high temperature, dust and all types of fumes.



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### Contact:

Maxtech Engineers, Ahmedabad  
Mobile: 09825016718, 09879756789.  
Email: info@maxtechengineers.com  
maxtechengineers@yahoo.com

## RING HOLDERS

Solar Enterprise provides superior grade orifice ring holders. These holders are manufactured using optimum quality material and by following quality guidelines. A team of professionals



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working at the company ensures that these ring holders are in tandem with international quality standards.

### Contact:

Solar Enterprise, Vadodara  
Mobile: 09824019206, 09824079206  
Email: hsolarent@hotmail.com



## GENERAL PRODUCTS

### PV SERIES VARIABLE DELIVERY PUMP

HTM Hydraulics Pvt Ltd offers a wide range of PV series variable delivery pump. These pumps supply infinitely variable flow controlled by the linear movement of a volume stem control.



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#### Contact:

HTM Hydraulics Pvt Ltd, Bangalore  
Tel: 080-41572101  
Mobile: 09741165877  
Email: info@htmhydraulics.co.in,  
sales@htmhydraulics.co.in

### HIWIN INTERNAL RECIRCULATION TYPE BALLSCREW

IBK Engineers Pvt Ltd offers a wide range of Hiwin internal recirculation type ballscrew. Internal recirculation type ballscrew, consists of the screw spindle, the ball nut, the steel balls and the ball return caps. The steel balls make only one revolution around the screw spindle.



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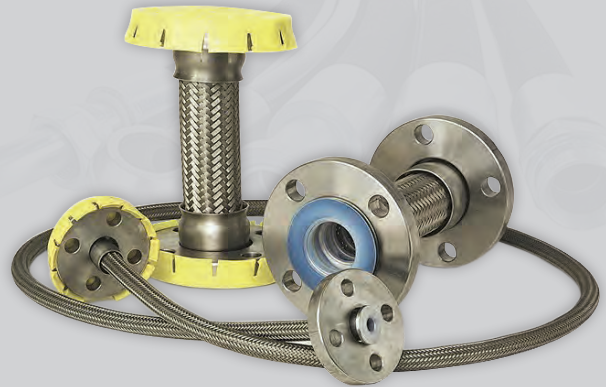
#### Contact:

IBK Engineers Pvt Ltd, Bengaluru  
Mobile: 09880566644  
Email: raju.kn@ibizkart.com



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### BRIGHT STEEL BARS & SPECIAL SECTIONS



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- COLD DRAWN / HOT ROLLED SECTIONS & PROFILES in Mild Steel, Alloy Steel & Free Cutting Steel
- Peeled & Ground Bars



CUSTOMISED CNC TURNED COMPONENTS MANUFACTURER

## COLD DRAWN STEEL SECTIONS

## HOT ROLLED STEEL SECTIONS

Mobile: 9331222272 / 9830042152 / 9830041557

4, Gopal Ram Pathak Road, Liluah Howrah - 711 204. (W.B.). India.

E-mail: bewindia@yahoo.com / cmiplindia@yahoo.com

Web: www.brightengineeringworkspvtltd.com

## SPRAY PRE-TREATMENT PLANT

Monark Engineering Industries manufactures dip/spray pre-treatment plant. Further, the components are placed in the baskets or cages of the range and are dipped in each process



tank for pre-fixed period of time.

Scan the QR Code for instant product enquiry



### Contact:

Monark Engineering Industries,  
Faridabad  
Mobile: 09810615466  
Email: monark.fbd@gmail.com

## FIRE ALARM SYSYTEM

Nayakson Security Systems is offering a range of fire alarm, intrusion alarm and gas alarm systems. These alarm systems enable people to be cautious so that they avoid unexpected dangers in workplace, home, etc.



Scan the QR Code for instant product enquiry



### Contact:

Nayakson Security Systems, Ulhasnagar,  
Thane  
Mobile: 08976720677, 09869632501  
Email: nayakson@yahoo.com

## COATING PLANT

Raghbeer Machinery Pvt Ltd manufactures PTG, a German make plasma coating plant. This plasma coating on various critical parts of printing machines provides them with a longer life and efficient working of the machine.



Scan the QR Code for instant product enquiry



### Contact:

Raghbeer Machinery Pvt Ltd, New Delhi  
Tel: 011-43777000 Fax: 011-23273130  
Email: mahabeer@vsnl.com

## ELECTRONIC TRANSMITTERS

Lakshmi Instruments & Automation has an array of electronic transmitters. It is a micro-controller-based technology, having six - digit, seven-segment display. The front panel programmable four-key pad arrangement for data entry, i.e., set values.



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### Contact:

Lakshmi Instruments & Automation,  
Chennai  
Mobile: 09380219820  
Email: sales@lakshmiinstruments.com

## LIQUID FILLING MACHINES

Global Engineering Technologies Packaging manufactures and exports volumetric liquid filling machines. The product is mounted on a sturdy base cabinet. These volumetric filling machines



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offer easy control on the cylinder for fast and accurate volume adjustment.

### Contact:

Global Engineering Technologies  
Packaging, Mumbai  
Mobile: 09819838604  
Email: agnellodmello@yahoo.co.in

## PRESSURE SENSORS

Best Systems & Services is offering a wide range of differential pressure sensors. These are made from top quality components and by implementing best available technologies.



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### Contact:

Best Systems & Services, Chennai  
Tel: 044-23726154  
Mobile: 09500036154  
Fax: 044-42046371  
Email: bestgroup.in@gmail.com

## STANDARD WALK IN CHAMBER

Classic Scientific provides a wide array of walk in chamber. These chambers are designed to suit standards for stability in temperature and humidity as per cGMP guidelines and 21 CFR - Part 11



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compliance. These chambers are in use for stability purpose such as temperature and relative humidity.

### Contact:

Classic Scientific, Boisar, Dist Thane  
Mobile: 09322259029  
Email: classicscientific@yahoo.com

## ASSORTMENT CUBE MOULDS

Industrial & Scientific Spares is offering a wide assortment of cube moulds. These products are widely used for casting cement concrete test specimens; manufactured as per international quality standards, these cube moulds are used for casting cement concrete test specimens.



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### Contact:

Industrial & Scientific Spares, New Delhi  
Mobile: 09910802723  
Email: iss1975@gmail.com



## GENERAL PRODUCTS

### STAINLESS STEEL CASTINGS

Gravity Cast offers stainless steel castings. High grade raw materials are used like cast steel, SS 316, SS 304, SS 410, bronze (g.M), pH, and WCB. The products are available in different



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specifications as per the requirements of customers.

#### Contact:

Gravity Cast Pvt Ltd, Rajkot  
Tel: 02827-253037

Mobile: 09375324868, 099090-28121  
Email: info@gravitycastindia.com

### PUMP CASTINGS

Supercast Industries offers a wide range of pump castings in aluminium. The aluminium pump castings are available in a superior quality range, with high strength, rust resistance, ruggedness and durability. They are checked for quality on various parameters as per industry norms.



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#### Contact:

Supercast Industries, Mumbai  
Mobile: 096650-94970, 09326474970  
Email: response@supercastind.com




WHEEL Ø: 25mm to 300mm  
WHEEL MATERIAL: Polyurethane  
PP, TPR, High Temp. - Nylon 260°C

**LOAD CAPACITY**  
10Kg to 4000Kg  
Per Wheel

**PLATFORM TROLLEY**  
300Kg








**Jyoti Architectural Products Pvt. Ltd.**  
A-101 Sagar Tech Plaza, Sakinaka Junction, Andheri (E)  
Mumbai-72, Tel:- 022-42421000, Cell: 9320892981  
Email:- sales@jyotiarch.in | Web:- www.jyotiarch.in



# MECHEM

## Quality in Reality



### FRP AND STEEL BOATS (IN-BOARD/OUT-BOARD/ELECTRIC)

Passenger Boat, Speed Boat, Patrol Boat, Work Boat, Barge, Pedal Boat, Water Scooter, Jetty, etc.

### FIBREGLASS (FRP) PRODUCTS:

Children Playground/Amusement Park & Gym Equipment, Water Tank, Chemical Tank & Equipment, Anti-Corrosive/Chemical Resistant Lining, Aquaculture Tank & Equipment, Waste Bin, Kiosk/Barrack/Pre-Fabricated Building, Roofing, Seating Systems, etc.



## MECHEM PRIVATE LIMITED

**CORPORATE OFFICE:** S-3/72 (Annexe), 1st Floor, Mancheswar Industrial Estate, Bhubaneswar 751010, Odisha, India  
Ph.: 91-674-2585886, E-mail: mechempl@gmail.com  
Website: www.mechem.in



## DINAMICA SERVO TURRET PUNCH PRESS

Deratech Machines India Pvt Ltd offers a wide range of Dinamica servo turret punch press. The Dinamica Servo Turret Punch Press is a new generation of high efficiency, energy-saving, environmentally safe CNC servo turret punch.



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### Contact:

Deratech Machines India Pvt Ltd,  
Bangalore  
Mobile: 09880005765  
Email: mkn@deratechindia.com

## PURGE SET

Placka Instruments India Pvt Ltd offers a wide range of purge set. A purge set is a combination of a variable area flow meter and a regulator. The purge set guarantees constant flow even



under the fluctuating pressure or load. Use purge set whenever you need constant feed of fluid.

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### Contact:

Placka Instruments India Pvt Ltd, Chennai  
Tel: 044-22231559  
Email: plackainstruments@yahoo.com

## LIGHTWEIGHT HYDRAULIC HAND PUMP

Enerpac India Private Limited offers SC00HTB, lightweight hydraulic hand pump and system components toolbox set. These cylinder and pump kits (porta



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power) are available for sale with 5 to 100 ton jacks (rams) in general purpose, center hole and low-height options.

### Contact:

Enerpac India Private Limited, Bangalore  
Tel: 080-39289000  
Email: nibedita.jyotishi@enerpac.com

## LINE INTERACTIVE UPS

Powerone Micro Systems Pvt Ltd offers a wide range of line interactive UPS. Line interactive UPS is used for small business, web and departmental servers. Power-one has the complete range of



Line interactive UPS from 650 VA to 1000VA.

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### Contact:

Powerone Micro Systems Pvt Ltd,  
Bangalore  
Mobile: 09035010265  
Email: poweroneups@poweroneups.com

## HYDRAULIC ROTARY ACTUATORS

Rotodyne Fluid Technic offers a wide range of hydraulic rotary actuators. Rotary Actuators are devices for converting the pressure energy in a fluid medium to useful Rotary Power.



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### Contact:

Rotodyne Fluid Technic, Bangalore  
Tel: 080-28396831  
Email: info@tornadofluidpower.com,  
marketing@tornadofluidpower.com

## VACUUM CIRCUIT BREAKER

Excel Power Switchgear Pvt Ltd offers a wide range of vacuum circuit breaker. The vacuum circuit breaker is the heart of the Switchgear which consists of the Vacuum Interrupter, spring charged motor, closing solenoid, opening solenoid, anti pumping device, etc.



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### Contact:

Excel Power Switchgear Pvt Ltd, Chennai  
Tel: 044-22254870  
Email: sales@excelpower.co.in

## QUICK RELEASE COUPLERS

Vijay Air Control offers a wide range of quick release couplers -New Generation = ST Series. Its valveless construction drastically saves pressure loss and achieves high flow rate. It is suitable for high viscosity fluids (such as grease).



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### Contact:

Vijay Air Control, Bengaluru  
Tel: 080-23148871, 23141136  
Mobile: 08951101436, 09880652082  
Email: saivacblr@vacpneumatic.co.in

## FREQUENCY INVERTOR - SJ200 SERIES

Pro-Med Instruments (P) Ltd offers a wide range of frequency inverter - SJ200 series. The SJ200 is a true muscle-man, featuring enhanced ISPM-technology with vector control. Outstanding performance and design characteristics, such as superior torque.



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### Contact:

Pro-Med Instruments (P) Ltd, Chennai  
Mobile: 09840832296  
Email: sales@promedindia.com



## GENERAL PRODUCTS

### PNEUMATIC STRAIGHT GRINDER

PFERD offers a wide range of pneumatic straight grinder PGAS 1/750. The drive is equipped with a collet tool mounting for mounted tools. The exhaust air flow of the air grinder is at the back. The air grinder with removable spindle sleeve has a high rotational speed.



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#### Contact:

PFERD, Bengaluru  
Mobile: 09880665415, 09741481117  
Email: sales@swit.in

### INDUSTRIAL AIR FILTRATION

Amaricar Engineering & Systems Pvt Ltd offers a wide range of industrial air filtration. Air filtration is a need for dust proofing systems to control rooms, larges control panels, etc and air filtration in existing fume exhaust systems for reduction in emissions to safe and permissible levels.



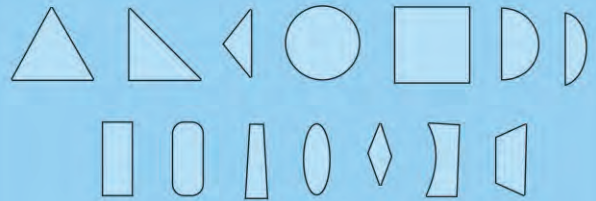
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#### Contact:

Amaricar Engineering & Systems Pvt Ltd,  
Chennai  
Tel: 044-28554689, 28554230  
Email: amaricar@gmail.com

## SPECIAL STEEL SECTIONS



For Cold & Hot Rolled Sections  
in Alloy Steel, Stainless Steel  
and Mild Steel for manufacture of  
Engineers' Files, Surgical Equipment,  
Home Appliances & others

Please contact:

## PRO-FILES

W-51 & 52, MIDC AREA, TALOJA - 410 208.  
Dist.: RAIGAD, MAHARASHTRA  
EMAIL: admin@profilestaloja.in

## Uniting Precision and Reliability for Frictionless Performance.

# FYH

### Spherical Roller Units ▼



### Dust Resistant Units ▼



360 degree z-lock system facilities  
easy installation without shaft damage

Tough working conditions made easier  
with extra tough designs

Strong quality, precision design  
and enhanced efficiency:  
extending service life

DGBB series that merges quality and  
affordability to lower operational costs



### ▲ Bearing Housing Units



### ▲ Stainless Steel Units



### ▲ Deep Groove Ball Bearings



Scan to explore  
our website



**Knowell  
International**

Service Without Compromise

For more information on FYH products please contact  
**Knowell International Pvt. Ltd.**  
Exclusive distributor for FYH in India

3rd Floor, 20, Netaji Subhas Rd, B.B.D. Bagh, Kolkata, West Bengal - 700001  
+91 33 22304627 / 22305726 | sales@knowellinternational.com |  
www.knowellinternational.com | Knowell International Pvt. Ltd. |

## JAMSHEDJI SOIL COMPACTOR

Jamshedji Constro Equip Pvt Ltd offers a wide range of jamshedji soil compactor. The comprehensive range of Rammer offered by us is appreciated by our



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valued clients for light weight and can be available in various models.

### Contact:

Jamshedji Constro Equip Pvt Ltd, Pune  
Tel: 020-27130682, 27130332  
Mobile: 09172222137, 09850153305  
Email: info@jamshedji.com

## HYDRAULIC HOPPER CONCRETE MIXER

Esquire Machines offers a wide range of concrete mixer – hydraulic hopper. It is built on the same robust design principles as the ever-reliable Esquire



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hand fed mixer, giving it the same dependable features and world class quality and workmanship.

### Contact:

Esquire Machines Pvt Ltd, Vadodara  
Mobile: 07069727357, 08758895096  
Email: getintouch@esquiremachines.com

## QUALITY CUTTER-CRUSHERS

Rajat Equipments is a manufacturer, supplier and distributor of an extensive range of superior quality cutter crushers. These are available in various models and can be customised as per



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specifications; they are stringently tested on several parameters to eliminate defects.

### Contact:

Rajat Equipments Pvt Ltd, Raipur  
Mobile: 09826421900, 09926936300  
Email: info@rajat-group.com

## DOUBLE TOGGLE JAW CRUSHER

Precious Mineral Processing Systems offers double toggle jaw crusher. The range of double toggle jaw crushers is manufactured with



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innovative techniques, high-grade raw material and international quality norms.

### Contact:

Precious Mineral Processing Systems Pvt Ltd, Ahmedabad  
Mobile: 09974088696  
Email: info@preciousfabcast.com

## AUTOMATIC PAVER BLOCK MAKING MACHINE

Mortek Machinery Pvt Ltd offers a wide range of automatic paver block making machine. These automatic paver block making machine offered is based on advanced Hydro+Vibro technology as well as features fully PLC automatic controlled operations that provide for desired support in paver block construction.



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### Contact:

Mortek Machinery Pvt Ltd, Ahmedabad  
Tel: 079-25840960  
Mobile: 07624011874, 09427011874  
Email: mail.mortek@gmail.com

## CONSTRUCTION CONE CRUSHER

Creative Enterprises offers a wide range of construction cone crushers. These crushers have reliable construction, high productivity, and lower operational costs.



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### Contact:

Creative Enterprises, Jaipur  
Mobile: 09352174343, 09829601578  
Email: construetbetter@yahoo.com

## ROCK DRILL

Suretech Infrastructure offers hydraulic craw rock drill. These rock drills are developed with the finest components and modern techniques in accordance with industry norms.



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### Contact:

Suretech Infrastructure Pvt Ltd, Panvel  
Tel: 022-27431868  
Mobile: 07021139961, 09967987913  
Email: sunil@suretech.co.in, surajit@suretech.co.in, ho@suretech.co.in

## HEAVY DUTY LAND LEVELLERS

Punjab Agro Sales (India) manufactures and supplies heavy duty land levellers. These rugged implements can be directly fitted to the tractors; the



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reversible leveller and single plate land leveller are synonymous with durability, high performance, and high strength.

### Contact:

Punjab Agro Sales (India), Karnal  
Mobile: 09255411474, 09034083063  
Email: punjab\_agro\_india@yahoo.co.in



## GENERAL PRODUCTS

### RIVETING HAMMER

Hardware & Pneumatics offers a wide range of pneumatic riveting hammers. Those rivet guns used to drive rivets in structural steel are quite large while those used in aircraft assembly are easily held in one hand.



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#### Contact:

Hardware & Pneumatics, Kolkata  
Tel: 033-22484842, 22432996  
Mobile: 09831063719, 09874044351  
Email: sales@hardwarepneumatics.in

### BATCHING PLANT

Nilkanth Engineering Works offers stationary concrete batching plants. The plant comprises of adequate capacity gravel and sand hoppers, weighing conveyor suspended on



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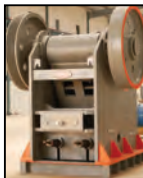


#### Contact:

Nilkanth Engineering Works, Ahmedabad  
Tel: 079-25835553, 40085485  
Mobile: 09825073105, 09904242413  
Email: info@nilkanthengg.com

### JAW CRUSHERS

Buildmate Projects offers a wide range of jaw crushers. These jaw crushers are single toggle type and have been designed after studying the day-to-day problems of crusher owners.



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#### Contact:

Buildmate Projects Pvt Ltd, Hyderabad  
Mobile: 07675989911, 09849019012  
Email: mvr@buildmate.in, marketing@buildmate.in

### BULKER CEMENT UNLOADING SYSTEMS

Shreeji Technology offers a wide range of bulker cement unloading systems. Through this system, you can arrange to unload the bulkier into cement silo. We offer pneumatic conveying systems for cement bulker unloading.



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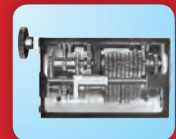
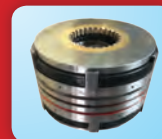
#### Contact:

Shreeji Technology, Ahmedabad  
Tel: 079-25840511  
Mobile: 09725310611, 09825012858  
Email: info@factory.com

## ELECTROMAGNETIC CLUTCHES MECHANICAL CLUTCHES MACHINERY SPARES & BALL SCREWS

### We Manufacture:

- Multi Disc & Single Disc Electromagnetic Clutches and Brakes ➤ Fail Safe Brakes ➤ Toothed Clutches
- Mechanical Levers ➤ Machinery Spares, Milling, Lathe, Radial Drilling, Grinding & All type of Mysore Kirloskar spares. ➤ Spur Gear, Spiral Bevel Gear, Bevel Gear, Helical Gear and all range of Screw Rod & Box Nut.
- Industrial Brake Lining ➤ All sizes and types of ball screws available ➤ We undertake reconditioning of all sorts of ball screw and linear motion guides



### FRICION ENGINEERS

# 30/1, Magadi Main Road, Near SBI,  
Vijayanagar, Bangalore - 560 040.  
Mobile: 9663380852, 9448100852  
Email: frictioneng126@gmail.com



## BRICKS MAKING MACHINE

Mortek Machinery Pvt Ltd offers semi automatic fly ash bricks making machine. This outfitted with a modern infrastructure, we are the most prominent manufacturer and supplier of semi automatic fly ash bricks making machine.



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### Contact:

Mortek Machinery Pvt Ltd, Ahmedabad  
Tel: 079-25840960  
Mobile: 07624011874, 09427011874  
Email: mail.mortek@gmail.com

## DRUM MIXER

Esquire Machines Pvt Ltd offers a wide range of batching plant drum mixer. The product range encompasses reverse drum type electrical and diesel machine, concrete mixer (10/7 mechanical hopper and 10/7 hydraulic hopper) and concrete mixer as well as bar bending and bar cutting machine, and weigh batche.



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### Contact:

Esquire Machines Pvt Ltd, Vadodara  
Mobile: 07069727357, 08758895096  
Email: getintouch@esquiremachines.com

## BATCHING MACHINE

Creative Enterprises offers a wide range of inline feed batching machine. With rich knowledge in this industry, they are engaged in providing our clients a broad array of inline feed batching machine.



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### Contact:

Creative Enterprises, Jaipur  
Mobile: 09352174343, 09829601578  
Email: construetbetter@yahoo.com

## CONCRETE MIXER

Rajat Equipments Pvt Ltd offers a wide range of reversible concrete mixer. Owing to our vast manufacturing facilities, they are manufacturing, supplying and distributing reversible concrete mixer.



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### Contact:

Rajat Equipments Pvt Ltd, Raipur  
Tel: 0771-4053384, 4052641  
Mobile: 09826421900, 09926936300  
Email: info@rajat-group.com

## PULVERIZER MACHINE

Precious Mineral Processing Systems Pvt Ltd offers a wide range of impact pulverizer machine. A heavy duty machine to pulverize medium hard rocks, minerals, and chemicals high fineness is possible from 100 mesh to 350 mesh and in some cases up to 500 mesh. The screen less classifier is used, the possibility of chocking or jamming is ruled out.



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### Contact:

Precious Mineral Processing Systems Pvt Ltd, Ahmedabad  
Mobile: 09974088696  
Email: info@preciousfabcast.com

## CUTTER MACHINE

Jamshedji Constro Equip Pvt Ltd offers a wide range of concrete cutter machine. The entire range is fabricated using high-grade raw material and fitted with precision engineered components.



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### Contact:

Jamshedji Constro Equip Pvt Ltd, Pune  
Tel: 020-27130682, 27130332  
Mobile: 09172222137, 09850153305  
Email: info@jamshedji.com

## INDUSTRIAL CHAIN CONVEYORS

Dynamic Industrials offers a wide range of industrial chain conveyors. Chain conveyors are a mechanism where one or more moulded plastic or metallic chains run parallel to each other.



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### Contact:

Dynamic Industrials, Noida  
Mobile: 09311123839, 09899095305  
Fax: 011-26345348  
Email: mohitg@dynamicindustrials.com

## INDUSTRIAL ROLLER CHAINS

Dynamic Trading Company is a supplier and trader of a wide range of industrial roller chains. A well-designed chain drive transmits mechanical power from one shaft to another efficiently. These SKF chains are manufactured in state-of-the-art facilities, using tight quality controls.



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### Contact:

Dynamic Trading Company, Chennai  
Mobile: 09840257767, 09840013057  
Email: dtcche@dynamictrading.co.in



## GENERAL PRODUCTS

### SUPREME QUALITY SHELL CLAVUS R OILS

Mahavir Oil Corporation trades a wide range of shell clavus R oils. The company has supreme quality Shell Clavus R Oils in the market. Less viscosity modifier is



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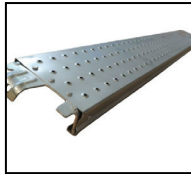
needed, which leads to lower levels of deposits.

#### Contact:

Mahavir Oil Corporation, Mumbai  
Mobile: 08048700112  
Email: mahavirshell@yahoo.com

### SCAFFOLDING PLANKS

Aegis Scaffolding Services Pvt Ltd offers a wide range of MS scaffolding planks. These scaffolding board are made using superior quality raw material and



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latest methods of production.

#### Contact:

Aegis Scaffolding Services  
Pvt Ltd, Mumbai  
Mobile: 09930450958, 08600376735  
Email: aegisscaffolding@gmail.com

## ACCREDITED IMPORTERS & SUPPLIERS OF ORIGINAL BEARINGS

### IMAGINATIONS ARE ENDLESS BUSINESS DEPENDS ON RIGHT DECISION



SPECIALIZING IN NON STANDARD / ODD SIZE AND SUPER  
PRECISION BEARINGS TO OEM AND ACTUAL USERS

SKF/ FAG/ TIMKEN/ RHP/ GAMET/ THK/ IKO/ INA/ NTN/ NACHI/  
NSK/ ZKL/ URB/ MCGILL/ GMN/ CHINESE & Many More

### PRECISION INDUSTRIAL CO.

Maskati House, 2<sup>nd</sup> Floor, 67, Nagdevi Street, Mumbai 400 003.

Mobile : 9892583513 / 8976677654

Phone : 022-23451915 Email : precisionranjit@hotmail.com

## Q-TORQ

### Torque Wrench

### BQ Model- With Quick Release BQLM-QR/BMH-QR

#### BQLM-QR

##### With Reversible Ratchet Head

Bi-directional operation, 8 degrees swing, suitable for confined space



| Item no.    | Square Drive | Torque Range N.m | Increment N.m | Length mm | Width mm | Weight kg |
|-------------|--------------|------------------|---------------|-----------|----------|-----------|
| BQLM260-QR  | 3/8"         | 5.0-60           | 0.5           | 396       | 32       | 0.96      |
| BQLM360-QR  | 1/2"         | 5.0-60           | 0.5           | 396       | 42       | 0.96      |
| BQLM2100-QR | 3/8"         | 10-100           | 0.5           | 435       | 32       | 1.04      |
| BQLM3150-QR | 1/2"         | 10-150           | 1             | 478       | 42       | 1.05      |
| BQLM3220-QR | 1/2"         | 20-220           | 1             | 507       | 42       | 1.16      |
| BQLM3350-QR | 1/2"         | 50-350           | 2             | 567       | 42       | 1.34      |
| BQLM3400-QR | 1/2"         | 40-400           | 2             | 690       | 42       | 1.36      |

#### Mini Size for BQLM-QR

| Item no.    | Square Drive | Torque Range N.m | Increment N.m | Length mm | Width mm | Weight kg |
|-------------|--------------|------------------|---------------|-----------|----------|-----------|
| BQLSM15-QR  | 1/4"         | 0.5-5            | 0.05          | 217       | 28       | 0.3       |
| BQLSM110-QR | 1/4"         | 2.0-10           | 0.1           | 227       | 28       | 0.32      |
| BQLSM125-QR | 1/4"         | 3.0-25           | 0.2           | 265       | 28       | 1.33      |
| BQLSM225-QR | 3/8"         | 3.0-25           | 0.2           | 265       | 28       | 1.35      |



#### BQ Model - Torque Wrench with Quick Release

- Accuracy is  $\pm 4\%$  from 20-100% of capacity.
- All metal structure, alloy steel pipe, durable.
- Clear scale, easy to read.
- Minor scale is 1/10 of increment of main scale.
- Pull to unlock lock ring keeps selected torque secure from accidental change.
- Quick release head.
- Grooved non-slip grip.

#### Shockproof packaging

Specially designed for all series of "NovaTorq" torque products



#### BMH-QR

##### With Rectangular Shank Head Holder

for 9x12mm, 14x18mm rectangular shank head inserts



| Item no.    | Shank size mm | Torque Range N.m | Increment N.m | Length mm | Width mm | Weight kg |
|-------------|---------------|------------------|---------------|-----------|----------|-----------|
| BMH960-QR   | 9 X 12        | 5.0-60           | 0.5           | 390.5     | 22       | 0.96      |
| BMH9100-QR  | 9 X 12        | 10-100           | 0.5           | 445.5     | 22       | 1.04      |
| BMH14150-QR | 14 X 18       | 10-150           | 1             | 460       | 32       | 1.05      |
| BMH14220-QR | 14 X 18       | 20-220           | 1             | 481       | 32       | 1.16      |
| BMH14350-QR | 14 X 18       | 50-350           | 2             | 544       | 32       | 1.34      |
| BMH14400-QR | 14 X 18       | 40-400           | 2             | 665       | 32       | 1.36      |

#### Mini Size for BMH-QR

| Item no.   | Shank size mm | Torque Range N.m | Increment N.m | Length mm | Width mm | Weight kg |
|------------|---------------|------------------|---------------|-----------|----------|-----------|
| BMH955-QR  | 9 X 12        | 0.5-5            | 0.5           | 200       | 22       | 0.32      |
| BMH9105-QR | 9 X 12        | 2.0-10           | 0.1           | 210       | 22       | 0.33      |
| BMH9255-QR | 9 X 12        | 3.0-25           | 0.2           | 248       | 32       | 0.35      |

Note: Due to the product improvement, the technical parameters are subject to variation, please refer to the actual production from the factory.

### Reliable Trade Links

MIG94, 10<sup>TH</sup> CROSS STREET, NOLAMBUR PHASE 1, MOGAIPPAIR WEST, CHENNAI 600 037  
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### Contact:

Vijay Air Control, Bengaluru  
Tel: 080-23148871, 23141136  
Mobile: 08951101436, 09880652082  
Email: saivacblr@vacpneumatic.co.in

## SEAMLESS NITRILE DIPPED GLOVES -K63NAA

Mallcom India Ltd offers a wide range of seamless nitrile dipped gloves -K63NAA. Nitrile coated palm and finger on yellow para-aramide shell. Construction gives you excellent hand dexterity with blue smooth finish. Knitted wrist for enhanced grip.



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### Contact:

Mallcom India Ltd, Kolkata  
Tel: 033- 40161005/1077  
Mobile: 09147157136  
Email: sofia.chattopadhyay@mallcom

## FLY ASH BRICK MAKING MACHINES

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### Contact:

Revomac Industries, Ahmedabad  
Mobile: 08049676734  
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## VACUUM CIRCUIT BREAKER

Excel Power Switchgear Pvt Ltd offers a wide range of vacuum circuit breaker. The vacuum circuit breaker is the heart of the Switchgear which consists of the Vacuum Interrupter, spring charged motor, anti pumping device, contact arm with isolating contact, buffer system, with-drawable trolley, etc.



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### Contact:

Excel Power Switchgear Pvt Ltd, Chennai  
Tel: 044-22254870  
Email: sales@excelpower.co.in

## TATA TMT STEEL BARS

Tata Steel Limited provides a wide range of TMT steel bars, Tata Tiscon 500D. This Tata Tiscon 500d rebars are available in the following sizes at the retail/distribution network across India: 6, 8, 10, 12, 16, 20 and 25 mm.



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### Contact:

Tata Steel Limited, Kolkata  
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Email: ibmd.marketingcomm@tatasteel.com

## GOODS LIFT

K Y Industries manufactures and supplies a wide range of industrial goods lift. The choice of products includes industrial goods lift, flame proof hydraulic goods lift, industrial hydraulic goods lift, goods lift, heavy duty goods lift and goods cum passenger lifts.



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### Contact:

K Y Industries, Ahmedabad  
Mobile: 08048762225, 09833347333  
Email: info@kyindustries.com

## PLATINUM PLYWOOD

Avron Ply manufactures a wide range of avron platinum plywood. Avron platinum ply is a BWP/marine grade ply made from Gurjan hardwood timber veneers. Avron platinum marine grade ply is the flagship product from the house Avron Ply.



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### Contact:

Avron Ply (A unit of SJE Exim Private Limited), Mumbai  
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Email: info@avronply.com

## FLOOR COAT ENAMEL PAINT

Surfa Coats India Private Limited is providing a wide range of surfa floor coat enamel paint. Surfa floor coat is a special product based on high grade pigments and special synthetic resins which impart high abrasion resistance to the film along with toughness.



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### Contact:

Surfa Coats India Private Limited, Bengaluru  
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Email: surfa@vsnl.com



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#### Contact:

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Email: rajesh@orm.co.in

### FLEXIBLE SHAFT

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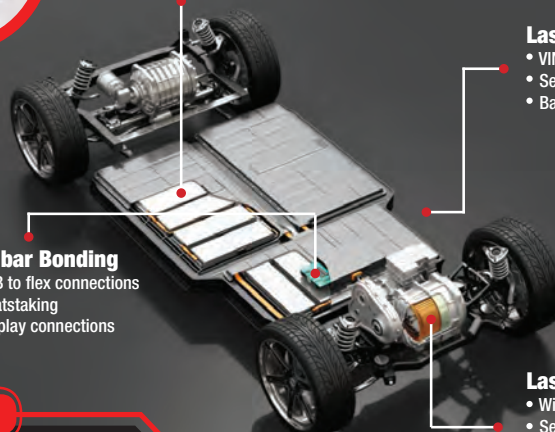
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- Battery pack welding
- Terminal welding
- wire compacting
- Copper hairpin welding repair



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#### Laser welding

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- Sensors
- Copper hairpin welding



### Adroit Technologies

sales@theadroittechnologies.com  
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## Magal Engineering introduces Logica electric press brake in India

Magal Engineering Company India Pvt Ltd offers Logica electric press brake, manufactured by the Italy-based Warcom S.R.L., in India. Warcom, the family-owned company that specialises in sheet metal forming machines, has been designing and manufacturing high accuracy and sturdy machines for the last 45 years.

Logica is a state-of-the-art electric press brake, available up to 130 ton of thrust. Its revolutionary system of direct transmission between the motor and ram, without further mechanical transmission parts, makes the system extremely reliable, precise, efficient and silent, with a speed and reliability superior to any other kinematic mechanism. It features a ram positioning accuracy of  $\pm 0.0025\text{mm}$  - twice as accurate as a traditional hydraulic press brake, achieved using frame-mounted optical scales that eliminate interference from frame flex. Logica is equipped with a Talento 21" touch screen control. It is an ideal machine for bending small-sized sheet metal, with great performance, high repeatability and a careful look at design and consumption.

**Novelty Quotient:** Warcom Logica is a fully electric press brake. Patented power transmission technology which ensures zero lag and low power usage, high quality output. The repeatability remains accurate for every part produced every time.

For details, contact Magal Engineering Co India Pvt Ltd, Bangalore, on Mob: +91 99165 34110, or Email: shashank@magal.co.in



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## Safcon Seals' smart security seal prevents utility meter tampering

Safcon Seals Pvt Ltd has developed unique smart security seal to protect utility meters from tampering to prevent the revenue loss to the utilities. The meter seal - designed for energy, water, and gas meters - provides high security to smart meters. The seal is provided in pre-locked condition having unique locking mechanism and do not have any scope for pre-tampering the seal before installation. Another common problem with the old meter seal is difficulty in reading seal number from the dark backgrounds. Safcon's smart security seal is provided with serial number on white background which enables easy to

read installed seal number and prevent any possibility of error in reading. In addition, the seal is provided with DPM 2D data matrix barcode having seal number and utility's security ID to read seal number and security ID digitally by smartphone or barcode scanner. Encrypted secret code is provided on each seal to discourage duplicate fake seal and creating barrier to defeat the meter seal and prevent power theft. Smart security seal's unique robust locking mechanism provides highest protection to utility meters.

**Novelty Quotient:** Smart security seal is manufactured from especially formulated UV stabilised polycarbonate material and AISI 304/316 grade non-corrosive, non-magnetic stainless-steel wire. The seal can be deployed for 15-20 years without degradation from ultraviolet rays, moisture, rust, and changes in temperature. Smart security seal can easily be tracked by smartphone or barcode reader and reduce any chance of manual manipulation of records. Combination of DPM barcode, embossed security ID, encrypted secret code makes it impossible for counterfeiters for replacing the original seals with fake/duplicate seals.

For details, contact Safcon Seals Pvt Ltd, Kolkata, on Tel: +91 33 2229 5486, Mob: +91 98748 55114, Email: sales@safcon.co.in, or visit: www.safcon.co.in



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## Alfa Laval offers 100% cleaning solution for ducts and tanks

In hygienic processing lines, manufacturers often face uncertainty when cleaning ducts, tanks and other confined spaces with hard-to-reach shadow areas. The new Alfa Laval Free Rotating Retractor, a high-efficiency retractable cleaning device, provides complete cleaning assurance, enhancing product safety while boosting uptime and productivity.



**Novelty Quotient:** The Free Rotating Retractor eliminates quickly and effectively removes residues from the interior surfaces of hard-to-clean vessels, limiting cross-contamination, minimising downtime, and increasing productivity. It delivers up to 35% savings in water, chemicals and time for every CIP cycle compared to conventional static spray ball technology. Moreover, more efficient use of resources enhances sustainability throughout manufacturing operations.

For details, contact Marianne Hojby, Marketing Communication Manager, Alfa Laval, on Email: [marianne.hojby@alfalaval.com](mailto:marianne.hojby@alfalaval.com)



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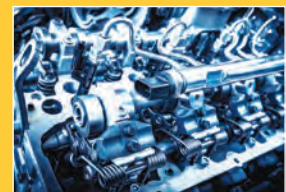


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## Flip flow screens for challenging high moisture screening applications

Electro Zavod's flip flow screens are specialised types of screening equipment designed for challenging high moisture screening applications. These high-efficient screens have unique design of the elastic mesh panels, which alternately flex and relax preventing clogging. Non-blinding screen mats results in a continuous and efficient screening process. Infinite adjustment of the vibrating parameters to match changing product characteristics/qualities results in effective screening of wet, sticky, and fine materials making them suitable for various industries, including mining, waste recycling, and aggregate processing.

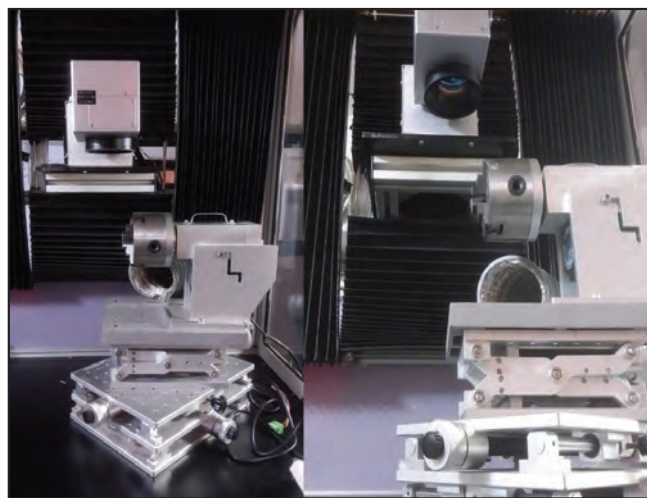
Flip flow screens offer the benefit of reduced maintenance and downtime. The high acceleration on the screening mats ensures a self-cleaning effect minimising the need for frequent maintenance, preventing material build-up and clogging, reducing downtime and increasing overall operational efficiency. Flip flow screens are used for a wide range of materials, including those with high moisture content, fine particle sizes, or irregular shapes. They offer high screening capacities as they can handle large volumes of material due to highly efficient screening action.

**Novelty Quotient:** The efficient screening process and reduced maintenance requirements of flip flow screens contribute to lower energy consumption and a smaller environmental footprint compared to some traditional screening methods. These 100% indigenously developed screens are robust in construction, have low operating & maintenance costs and come in unique user-friendly designs, which are tailor made as per demand.

For details, contact Electro Zavod (India) Pvt Ltd, Kolkata, on Tel: +91 33 2229 0045 or Email: [aniruddha@electrozavod.com](mailto:aniruddha@electrozavod.com)



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## C And C Laser offers multi-axis laser marking/engraving machine

C. And C. Laser Engineering Pvt Ltd supplies multiple axes laser marking/engraving machine. The machine has 3 axes Galvo head along with linear stage X-Y system, motorised Z axis & a rotary. The advantage of such a multi-axis machine is that the machine can process any shape and size parts. The laser can be selected from a wide range depending on the material to be processed – For metals, IR @ 1064 nm – Fiber Laser, Diode Pumped (DP) Nd:YVO4 laser, Green @ 532 nm – DP Nd:YVO4 Laser; For glass, plastics and few non-metals UV @ 355 nm – DP Nd:YVO4 laser; and For non-metals like wood, glass, acrylic, etc CO2 laser.

Machine is designed and built in such a way that assures maximum productivity. The parts could be of any shape or size, the machine can process the same at a faster rate with

all the automation required. Loading & unloading time can be minimised to zero with the addition of fixtures. Advanced CNC package used ensures multiple benefits while machine programming. All the axes are calibrated ensuring best positional accuracies of machine.

**Novelty Quotient:** Right from design to manufacturing overall concept is unique i.e. multi axes laser marking/engraving machine. The micro machining time is reduced drastically as machine is equipped with multiple axes and fixtures. Selection of lasers can be carried out in C. And C. Laser Engineering's application lab in Mumbai, where it has all the lasers for display, demonstration and job-work.

For details, contact C. And C. Laser Engineering Pvt Ltd, Mumbai, on Mob: +91 98331 05515, or [info@cnclaserengg.com](mailto:info@cnclaserengg.com)



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## M-Sense12A autoclavable encoder helps in surgical precision

Portescap's new M-Sense12A autoclavable encoder has been optimised specifically for surgical robotic applications and can survive up to 2,000+ sterilisation cycles, with its autoclavable design allowing it to be used within surgical devices requiring precise positioning of the motor's rotor.



**Novelty Quotient:** The M-Sense12A magnetic encoder provides a wide resolution range up to 1024 lines and accuracy up to 1.5 degrees, making it an ideal choice for demanding surgical applications requiring accurate positioning and closed-loop motion feedback. This encoder is also able to work accurately at high input speeds, with a maximum input speed of 120 kRPM at 1024 lines/rev in incremental mode. The M-Sense12A autoclavable encoder addresses the trend of robotization in surgical procedures, as well as the shift towards "smart" surgical hand tools.

For details, contact Nicole Monaco, Global Marketing Manager, Portescap, on Email: [portescap.sales.europe@regalrexnord.com](mailto:portescap.sales.europe@regalrexnord.com)



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6A-0326



### VBR Technologies develops Multi-Node Wireless Data Integration

Data centralization extracted from multiple machines involves huge investments in terms of assets and activities like server, SCADA, cables, maintenance, data security, report generation, etc. VBR Technologies Pvt Ltd has developed solution - Multi-Node Wireless Data Integration (MW-DI) which uses Pro-face equipment like IPC, HMI and software – to enable implementation of such system in a very simplified manner. The new solution offers better results and features, at a fraction of the cost with immediate RoI.

**Novelty Quotient:** The solution can be implemented quickly and involves minimal intrusion with the existing system. Least cost in implementation of the solution compared to any other high-end Software and SCADA. It involves no recurring cost for continuity of services. Multiple Nodes (HMIs) can extract data from multiple machines and can generate report easily in PDF format. It can read data of any machine on any node. The solution has reliable wireless data connectivity over long range distance (LoS: 5 Km).

For details, contact VBR Technologies Pvt Ltd, Bengaluru, on Mob: +91 87222 22500, or email: [info@vbrtech.com](mailto:info@vbrtech.com)



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### FYH Japan introduces all-new range of deep groove ball bearings

Since 1950 FYH - the largest manufacturer of mounted bearing units in Japan - has prioritised quality, aiming to offer efficient, precise, and affordable solutions to a diverse array of industries. Building on this reputation, FYH has introduced its own line of Deep Groove Ball Bearings (DGBB) and miniature bearings. The DGBB line offers a durable and cost-effective solution, comparable to all existing market players. Engineered to motor-grade standards and featuring premium grease for enhanced performance, FYH's new DGBBs effortlessly operate in high-speed and demanding conditions, reducing operating noise and extending bearing life. Similar to the versatility of FYH's other products; this DGBB line is applicable across various industries, including automotive, agricultural,

construction machinery, motors, conveyors, and machine tools. Complying with ISO/JIS standards ensures that these bearings are dimensionally interchangeable with all competitor DGBB products. Affordable, adaptable, and agile, FYH's new range – which is distributed in India by the Kolkata-based Knowell International - is poised to provide customers compact and reliable bearing solutions. In the Indian market, which is witnessing a growing demand for high-quality bearings across industrial applications, FYH's range of DGBBs present an excellent choice for customers due to their cost-effectiveness, durability, and high performance.

**Novelty Quotient:** FYH bearings are known for their ability to effortlessly operate in high-speed and demanding conditions given the materials used for their production. This enables the bearings to have an extended life (thus extending the life of the machine) along with the ability to operate with lower operational noise. High-quality at a reasonable price is a rare combination when it comes to bearings and FYH offers just that - it is affordable, adaptable and agile giving customers a high-performance product that provides savings from both a cost and production downtime perspective.

For details, contact Knowell International Pvt Ltd, Kolkata, on email: [sales@knowellinternational.com](mailto:sales@knowellinternational.com) or visit [www.knowellinternational.com](http://www.knowellinternational.com)



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## Aurion introduces novel clean-tech solution for machining

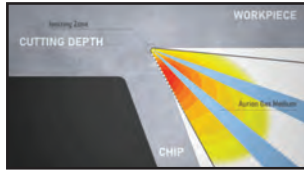
Aurion Machining Technologies Oy has introduced the latest breakthrough in machining technology - a pioneering clean-tech solution that utilises ionised air for parts manufacturing. This technology offers a sustainable alternative to traditional metalworking fluids and emulsions, setting a new standard for environmental responsibility and efficiency in the industry. Aurion's technology leverages ionised air to achieve exceptional machining results, ensuring safety for employees and minimising environmental impact.

**Novelty Quotient:** It is a trailblazing clean-tech solution that is both safe for employees and environmentally friendly. It reduces manufacturing costs and cutting lead times, proving to be an economically compelling solution for workshops. Designed for seamless integration into both existing and new machinery, Aurion's technology supports a wide range of machining applications and materials.

For details, contact Sylvia Wang on  
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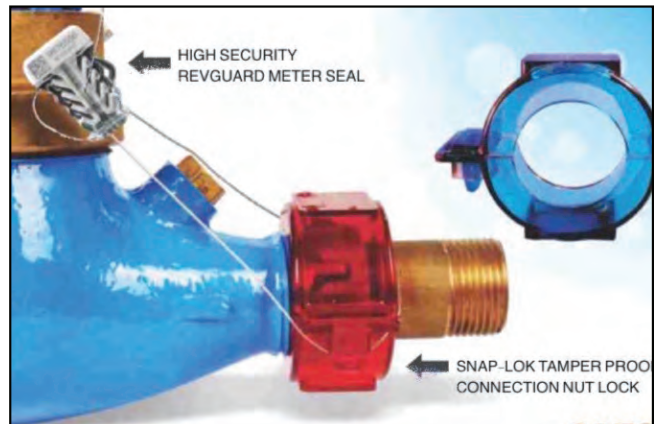


For  
Details



### Safcon Seals develops Snap-Lok security solution for water meters

Safcon Seals has developed security solution for water meter protection from theft. Combination of Snap-Lok water meter connection nut lock and RevGuard tamper resistant security seal is most effective water meter locking system to prevent unauthorised access by any means once installed. Transparent body of both nut lock and security seal provides clear signs of tampering. Both connection nut lock and security seal are customised with user security ID and unique serial numbering. The security seal is provided with DPM barcode. They are manufactured from especially formulated polycarbonate that is extremely brittle and designed to break on tampering and/or attempt to remove. It's easy push-fit locking mechanism provides positive, secured and permanent locking. It is corrosion resistant and suitable for indoor or outdoor application.



**Novelty Quotient:** Seven digit unique serial numbers provided on each nut lock and security seal. Locking device can be easily checked and recognised. Designed for single use and once removed cannot be re-used. Customer's security identification and/or codes are provided, which are permanent and cannot be manipulated. Resistant to accidental breakage, long term direct sunlight or rain water exposure, and can withstand High temperature. It is environment friendly and contains no lead.

For details, contact Safcon Seals Pvt Ltd, Kolkata, on Tel: +91 33 2229 5486, Mob: +91 98748 55114, Email: [sales@safcon.co.in](mailto:sales@safcon.co.in), or visit: [www.safcon.co.in](http://www.safcon.co.in)



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### Magal Engineering offers high-speed Etone presses

Magal Engineering Co India Pvt Ltd has partnered with Zhejiang Etone Precision Machinery Co Ltd in India to offer the world-class mechanical and high-speed Etone presses with a good balance of technical features and economic value. The company offers 3 types of presses - Etone APJ series (straight side high speed double crank presses with varying tonnage from 60 tonnes to 550 tonnes), Etone APD series (ring frame precision press available in the range 80 to 260 tonnages), and Etone APA series (high precision C-frame presses available in 25 to 315 tonnages). They have machine frame with high rigidity design. They are made especially for manufacturing laminated rotors and stators for electric motors. The presses maintain

stability and efficiency even while stamping large size rotors and stators, lamination of generator motors and industrial motors. Etone have very stringent quality control and quality. High quality cast iron is used for the crowns, uprights and bed. The comprehensive clearance is within 0.25 mm, the parallelism is within 0.04 mm, and the perpendicularity is within 0.01 mm, and this special precision can be maintained for many years.

**Novelty Quotient:** The accuracy of the machine is maintained as long as the machine is used. Every part of the machine is manufactured in-house; no part is outsourced assuring the repeatability and consistency of the machine. High steel alloy casting frame structure designed by computer analysis and processed by internal stress elimination ensures the rigidity of the frame, which guarantees high precision also for achieving low Noise and low vibration. This improves the life of the die.

For details, contact Magal Engineering Co India Pvt Ltd, Bangalore, on Mob: +91 99165 34110, or Email: [shashank@magal.co.in](mailto:shashank@magal.co.in)



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# Transforming Manufacturing With Green Engineering

**W**ith India aiming to export goods worth \$1 trillion by 2030, the manufacturing sector has to pull up its socks and work hard to gain competitive edge globally. However, the environmental toll of conventional manufacturing approaches threatens these ambitions. The solution lies in rapidly transitioning to sustainable manufacturing models by harnessing emerging technologies. The good news is that Industry 4.0 innovations like automation, digitization, and renewables promise cleaner, greener, and smarter production systems.

Embracing green engineering in manufacturing can foster innovation and technological advancement, and position Indian companies at the forefront of global competitiveness. Additionally, green engineering leads to

long-term cost savings through the adoption of energy-efficient technologies and waste reduction, triggering a positive cycle of environmentally conscious production.

On the other hand, walking on the sustainability path won't be easy with hurdles like shortage of qualified workers, lack of knowhow to select the right technologies, high upfront cost of adoption, etc on the way. But, green manufacturing practices will be pivotal for India to emerge on the top in the global marketplace.

In the "Cover Story" section, industry leaders present their carbon-neutral strategies (spanning from R&D to manufacturing to supply chain & logistics) for developing India into a vibrant manufacturing hub of the world. Read on...



# Green production using ‘Circular Replenishment Chains’ model

Circular Replenishment Chains (CRC) are chains of industries which consume each others wastes, to produce finished products and services for consumption. Operating under the CRC framework will lead to greater transparency, lower costs, speedier deliveries, more milk runs, and a higher safety level, says **R Jayaraman**.



**T**he term ‘Green Manufacturing’ (GM) has been in frequent use in the last few years, although it came into first use sometime in the 1990’s. I remember this because, in Jamshedpur, the top leadership of Tata Steel was getting worried about the environmental pollution being caused in the city due to the emissions from the various manufacturing units in the plant. The coke ovens emitted fumes, the LD furnace shot out brown coloured gases during the steel making process, the blast furnace had its own way of contributing, especially through the emitted slag from its belly. All these were polluting the town. In fact, it was known that if one were to sit outside in the evenings in the big, beautiful bungalow lawns adjacent to the steel plant, one could easily be coated with coal and furnaces dust, a thin film, which one could feel physically.

The top managers felt that this was unacceptable, and went on to do something about it. The first set of ESP’s – Electrostatic Precipitators – were installed, and much of the fumes and other gases were absorbed. There were four in-house thermal power plants, supplying about 100 MW to the operations. The ESP’s picked up the dust from the emissions of the boilers and cleaned up the same. In about a few months, the MD of the company was quite proud showing the new photographs of the Jamshedpur

skyline, with the fumes from the plant reduced to nil or close to. This was my first experience with GM.

The company had two big ponds where water was stored, to meet the requirements of the plant operations. After use, much of the water was put back into these ponds. But, to improve the recovery, many more cooling water towers were installed, to capture the used water and put it back into circulation through the ponds. Around that time, some companies had found a way to use sea water in boilers and other devices. This was a step in conserving potable water. A fully equipped instrument truck was put into drive, to tour the city’s areas, to monitor the pollution level, which today, every newspaper is touting as the AQI – Air Quality Index. All these measures were taken as a part of the ‘Total Quality Movement’ (TQM) and ‘Business Excellence’ (BE) under the aegis of the ‘Tata Business Excellence Model’ (TBEM). Looking back on those times, it becomes clear what impact GM can have on a company’s business over the long term. Today, Tata Steel is a powerhouse in GM, marching speedily towards adopting hydrogen in its operations.

There are several aspects of the GM which should occupy the minds of senior management in today’s manufacturing industry, as well as many of the service industries too, especially, the food and beverages industry,



the healthcare industry, the pharma industry and the municipal waste recycling industry. All these are significant contributors to environmental degradation in the long run. It is ironic that the production and consumption in these industries, as on date, largely leads to such high levels of emissions and effluents that the consumers themselves are at peril, and may not remain fit enough to consume all that they are doing so now. Only GM can prevent this rather curious situation from becoming an all encompassing one. It is said that every civilisation sows the seeds of its destruction from within. The industrial civilisation has been doing that for the last many years. To understand the severity of the threat, one needs to go back in time to understand how things came to such a pass.

### **The steam engine – driver of the ‘Standard of Living’ mantra**

The steam engine was the first polluter – while it drove many pumps, trains, motors etc., it also led to the emission of coal particles, as the steam was generated by burning coal. This is the origin of the irony. Had the steam engine not been developed, humans would still have drawn water from the well by using the bucket tied at the end of a rope.

It may have taken more time, no doubt, but then there were no emissions, and the humans were kept ‘usefully busy’. Those who drew the water didn’t have to go for long early morning walks – they got their quota of exercises by doing something useful for them and their families, neighbours. This ‘socially and personally useful’ work was a winner in terms of sustainability. It met the needs of the people around, and did not pollute. But, the argument was that such a life meant a ‘low standard of living’. No cars, no big bungalows etc. Hence, the steam engine builders, in their quest for ‘raising the standard of living’ of the masses, went on a spree of discoveries and inventions, which are still not completed.

The ‘standard of living’ (SOL) became a new mantra, the main mantra of the industrial age, under which anything and every excess could be justified. For example, one had to have high volume production of steam engines, as more and more people could travel. So, most abandoned their horse drawn carriages, and shifted to the railway. This meant that coal mines had to be operated, to keep the ‘wheels running’. And so on, and so forth. The cycle was – invent new gadget which will raise the SOL – explore and exploit new sources of raw materials from the earth (mostly) – provide new products and services – which will lead to more demands for further increasing the SOL.

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**Gandhiji spoke about ‘self-sufficient’ villages in India. Similarly, we need to develop and expand the concept of ‘self-sustaining’ industries. From the Industrial Revolution, we need to move to Sustained Industrial Revolution.**

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The economists were not to be left far behind – they invented the GDP, GNP, per capita et. al., so that the SOL efforts could be chronicled, measured, graphs drawn to show the ever increasing SOL. This was OK till about the middle of the last century. It is only when the chickens came to roost did people wake up. But, by then, the SOL driven industry was on more than four wheels, and thundering down a tall mountain, with no brakes in sight. What went wrong?

### **A wasteful economy is developed, but ‘replenishment’ is the answer**

Obviously, the SOL meant that some grabbed all the resources, exploited them well, and served a limited circle of humanity. In their quest to do so speedily, they used the old theories of colonialisation – capture the source of fossil materials like oil, gas, iron ore, other minerals, etc. by subjugating the people. This subjugation was done through a sophisticated network of economists, businessmen, with full governmental backing. So, over time, the ills became evident. For example, if the steam engine inventors had found a method by which the coal used could be mined in an environmentally friendly way, then it could have been sustained.

How to do this? By following a policy of replenishing the lost materials – this is a simple principle using which many industries have found an economically profitable way to manage inventories. How can one replenish coal? By planting trees, by blending coal with synthetic or natural materials which can reduce the consumption of coal, but yet provide the benefits. Discovery of natural gas, and other types of gaseous fuel stopped the coal onslaught for sometime. The development of nuclear energy was another step in conservation. It was then surpassed by solar, wind, wave and waste gas driven turbines.

This line of thinking – finding friendly alternatives, methods of conservation, developing substitutes and new processes for doing the same things, and more – is what GM is all about. Gandhiji spoke about ‘self-sufficient’ villages in India. Similarly, we need to develop and expand the concept of ‘self-sustaining’ industries. From the Industrial Revolution, we need to move to Sustained Industrial Revolution. To do this, we need to think globally and develop a ‘way of life’, to recognise



that resources must be utilised in a manner which will take care of the 'replenishment' angle contiguously. For example, if a company uses 1,000 cc of water, then it must look at how it can 'regenerate' that 1,000 cc, or parts of it. Obviously, not everyone can do this 'regeneration' on ones own. That is the reason why we must develop the 'Circular Replenishment Chains' model of industrialisation, going forward.

### The 'Circular Replenishment Chains' model of industrialisation

By collaborating, and exchanging material, water and energy streams between 11 public and private partners, the Kalundborg network increases resilience and economic gains for its members, while meeting ESG goals. Annually, combined benefits from the partners are 100GWh of energy, 635,000 tons of CO<sub>2</sub>, 3.6 million tons of water, and bottom-line savings of \$24 million. This kind of symbiosis represents an immense opportunity for data transparency and the pairing of underused resources between companies.

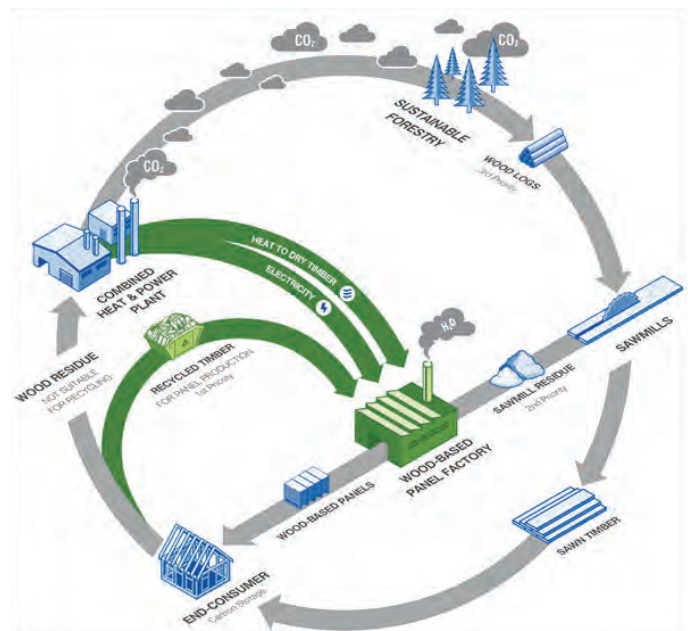
The industrialisation revolution model which started in 1770's has run its course. It is clearly not sustainable, as many of the raw materials, which form the bedrock of this revolution, will soon run out. If we keep burning fossil fuels at our current rate, it is generally estimated that all our fossil fuels will be depleted by 2060. New reserves will probably be found before this point, extending the deadline somewhat, but it is worth remembering that if we are to limit global warming to the 'relatively' safe level of 2°C by 2050, 80 per cent of coal, 50 per cent of gas and 30 per cent of oil reserves are 'unburnable'. We may run out of iron ore reserves by 2070. Thus, one key issue is the 'running out' of the resource.

The second is the environmental damage that is caused due to the way of usage. This is usually measured by the carbon footprint. The third dimension is the human suffering. Due to the toxicity of the wastes, diseases and infections soar, leading to increased medical attention. The consequences could be prolonged pain and suffering, hospitalisation, large amounts of consumption of medicines. The fourth angle is the increase in the cost of goods and services due to the large wastage. The low yields means the cost has to be recovered through a lower

volume of sales, leading to higher prices. Inflation and poverty are the results of such a situation. Due to the higher prices, the poor are left out of the consumption market, enhancing hunger and under nourishment related issues. So, what is the remedy?

There are two routes. One is the 'conservation route', and the other, the 'circular economy' route. In this article we will only look at the second one. COP 28 is having many issues in addressing the first one.

The 'circular economy' represents a host of solutions which are essentially centred around reducing or eliminating wastes. Companies producing goods and establishments catering to services are both waste generators. Wastes occur due to: defectives, unusable raw materials, consumers rejecting deliveries, products reaching the end of life cycle, work in process getting 'lost' due to in-transit, storage losses, and so on. Those who understand the lean management terminology,



muda, mura and muri summarise the different wastes. The point is, by doing things 'Just In Time', a lot of these wastes could be avoided. This leads us to the main theme: creation of circular replenishment chains (CRC).

### What are CRC's?

Wastes from the automobiles industry is used by the steel industry. Wastes from the food industry is used by the biomass/ biogas/ biofuel industry. In India, cowdung has many uses, there is no need to waste any of it. CRC's are chains of industries which consume each others wastes, to produce finished products and services for consumption. The word 'replenishment' has been added to emphasise that even in a circular economy, producing output more than needed is to be avoided. Produce ONLY when needed, demanded, in the qualities and quantities demanded. This is a double-edged sword – it prevents wasteful production in the first place, and, second, wastes arising are processed (consumed) in the chains. Chains



can be twins, triads, and multiple members. A simple twin is the iron and steel scrap industry and the steel manufacturing. Same is true for aluminium and copper. An example of a triad is the linking of the steel – automobiles – tyres industries. Similarly, pharma – chemicals – packaging.

All these models are exemplified in the way a JIT based inventory system is managed. Goods are produced only when demanded by the distributors/ retailers. The bull-whip effect can be avoided by the use of Industry 4.0 techniques. This then becomes a role model way of managing the production – sales value chains. Thus, the CRC's provide a new way of managing industrial progress which addresses sustainability and prevents environmental degradation. Going forward, governments should create conditions conducive to the formation of such CRC's. The private sector also has a key role to play, especially the larger organisations. Those who produce in large volumes are also the 'large waste creators', and hence, their responsibility is greater. Industry associations should slowly get replaced by the CRC associations, which will work to promote sustainability.

### How will CRC's benefit society?

It is truism to say that waste reduction will improve sustainability. However, to make it happen, the world needs to introduce systems and mechanisms. It is imperative to recognise that the philosophy of CRC is the need of the hour. Companies should not only buy from suppliers and vendors, but must create a circular, closed-loop chains, to ensure JIT, replenishment oriented transactions. Those who are familiar with the Theory of Constraints (TOC) literature will recognise that the TOC advocates replenishment based inventory management, and there are several case studies available. The CRC's will become conduits to practice this principle of TOC, which will lead to sustainability. By developing CRC's, industry will be able to demonstrate that sustainability can be practiced. The improvement in credibility will encourage many industry players to join the CRC movement. Operating under the CRC framework will lead to greater transparency, lower costs, speedier deliveries, more milk runs, and a higher safety level.

It is, therefore, recommended that industry should examine the CRC concept being proposed and adopt it as speedily as possible, to hasten the move towards sustainability.

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### About the author:



R Jayaraman is the Head, Capstone Projects, at Bhavan's S P Jain Institute of Management & Research (SPJIMR). He has worked in several capacities, including Tata Steel, for over 30 years. He has authored over 60

papers in academic and techno economic journals in India and abroad. Jayaraman is a qualified and trained Malcolm Baldrige and EFQM Business Model Lead Assessor.



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# Nuturing “green” talent

Green experts are in high demand in the chemicals, petrochemical, plastics, and rubber industries, adds **Neeti Sharma**. With her expertise and experience, she pens down the vital role of skills and training in carbon-neutral strategies for an organisation and individual.



Image courtesy: Freepik

**A**s the world grapples with the effects of climate change and its impact on the environment, organisations are increasingly keen to adopt more carbon neutral strategies to mitigate the environmental impact. However, achieving carbon neutrality goes beyond just adopting green technologies, it also demands a qualified and trained workforce that possesses the right skills to navigate the complexities of sustainable practices. In this article, let's look at the skills required to enable the successful implementation of carbon neutral strategies and key competencies that both organisations and individuals will require to succeed in this endeavour.

According to a recent TeamLease report, between 2022 and 2023, the share of green talent in the workforce (members that have added green skills to their profile and/or are working in a green job) rose by 12.3 per cent while job postings requiring at least one green skill rose by 22.4 per cent. However, globally only one in eight workers possess the requisite green skills, leaving the vast majority of the workforce underqualified. The decarbonisation of India by 2070 has the potential to provide up to \$15 trillion in economic opportunities and up to 50 million net new jobs.

Furthermore, India's pledge to reach a 500 gigawatt clean energy goal by 2030 has resulted in an 81 per cent year-on-year surge in the demand for green jobs in

January 2023 with major metropolitan cities such as Delhi, Mumbai, and Bengaluru taking the lead. It is also worth noting that the healthcare, pharmaceuticals, BFSI, and consulting sectors have the highest hiring for ESG roles. Green experts are in high demand in the chemicals, petrochemical, plastics, and rubber industries.

## Importance of skill training in the green energy sector

According to a TeamLease report, India currently employs 20 per cent of its workforce in green jobs, and it is expected to double by 2030. The employment prospects in green sectors appear optimistic, with expected significant expansion. India has the capacity to create 35 million

green jobs by 2047, while the current count stands at 18.52 million green jobs in the country. In this context, a transition to a carbon-neutral future requires a paradigm shift in how organisations function and green skills training is a fundamental requirement to achieve this goal. Companies that invest in developing the skills of their workforce not only contribute to a sustainable future but also position themselves as leaders in a rapidly changing business landscape.

## Top green skills for the future

Despite India's shift toward a greener economy, there remains a significant gap in skills required and the lack of a skilled workforce in sustainable development is estimated to lead to an annual GDP loss of 3-10 per cent from 2021 onwards. Let's look at some of the primary skills that Indian youth must acquire for India to achieve its sustainable and carbon neutrality goals.

### Technical skills

Technical expertise is a fundamental skill that is required for successful achievement of any carbon-neutrality goal. Both at an organisational level and at a national level, proficiency in green building design, carbon capture methods, renewable energy systems, waste reduction strategies, and carbon-reduction technologies is critical. Technical experts will be required



to analyse, implement, and monitor strategies and ensure innovative solutions are implemented to achieve carbon neutrality.

### Data management skills

Meeting carbon neutrality targets requires robust data analysis and data management skills to understand, track, and optimise an organisation's environmental performance. Designing and implementing proficient data analysis and management programs are essential to achieving ESG and carbon neutrality goals. Real-time monitoring of emissions and energy consumption helps in tracking and identifying patterns and responding quickly to any target deviations. Collecting and handling vast amounts of data also raises security concerns, and professionals who are well versed in data security and protection will always be in demand in the sector.

### Operation and project management skills

Implementing carbon-neutral strategies often involves complex projects with multiple stakeholders. Project management skills are essential to ensure the seamless execution of sustainability initiatives. Since project management skills are transferable, experts from other industries can perform the function with minimal training. However, project managers in the ESG or CSR sectors must be able to plan, execute, and monitor projects and ensure that they align with India's carbon neutrality and reduction goals, often within tight deadlines.

### Sustainability reporting skills

Sustainability reporting is a skill that is in high demand across the ESG sector, and it is a multidisciplinary field that may require multiple sub-skill sets as well. Apart from having a good grasp of data analytics, metrics, and tools, sustainability reporting requires strong communication, research, writing, and presentation skills as well. Knowledge of other topics such as human rights, biodiversity, climate change, and circular economy is also extremely important.

### Regulatory compliance and reporting skills

Regulatory compliance and reporting are critical for an organisation aiming to achieve carbon neutrality, candidates with knowledge of relevant laws, standards, and reporting requirements related to sustainability are always in demand. Familiarity with national and global regulations relating to carbon emission, ESG factors, and environmental sustainability is critical to perform a regulatory compliance role. Knowledge of reporting frameworks such as the ability to align reporting practices with emerging standards and guidelines are also crucial requirements. Regulatory compliance officers are required to help organisations improve their transparency and accountability and ensure greenwashing does not occur.

### Lifelong learning and adaptability

The field of sustainability is dynamic, with new technologies and best practices emerging regularly.



Image courtesy: Freepik

Professionals committed to lifelong learning and adaptability can stay ahead of the curve. Investing in training programs that keep employees updated on the latest developments in sustainable practices ensures that organisations remain at the forefront of the carbon-neutral movement. Lifelong learning is a critical skill, especially considering the rapid pace of technological advancements in the sector.

In conclusion, the surge in green talent and job postings in India underscores the nation's commitment to creating a sustainable and carbon-free future. The ambitious targets, such as decarbonisation by 2070 and a 500 gigawatt clean energy goal by 2030, present both challenges and opportunities. The demand for green skills, particularly in sectors like healthcare, pharmaceuticals, BFSI, and consulting, is rising, signalling a transformative shift toward sustainability. However, a significant skills gap persists, threatening potential GDP losses. To bridge this gap and realise India's sustainable and carbon-neutral goals, a robust development, India can not only achieve environmental targets but also position its workforce as global leaders in the evolving landscape of sustainability.

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### About the Author



Neeti Sharma is the Co-Founder and President of TeamLease EdTech, a company that specialises in providing Learning Solutions for the traditional and employed learners. A professional journey of over 30 years with a blend of building and managing businesses, strategic thinking,

leadership and making a difference in lives of many both in the Indian and International markets, she has acquired domain expertise and is extremely passionate and operates at the intersection of employment, employability and education. She has also been listed as Top 200 women founders of EdTech companies by HolonIQ.



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# Role of modern technologies in manufacturing revolution

What was once optional has now become imperative for companies aiming to stay competitive in the 21<sup>st</sup> century, says **Bharanidharan S** while telling about the remarkable technological advancements in manufacturing in the past years.



**T**he manufacturing industry has undergone a profound transformation, evolving from manual craftsmanship to a modern era dominated by technology and automation. This shift has not only revolutionised production methods but has also unlocked efficiencies and possibilities once deemed unattainable.

Traditionally, goods were crafted by skilled individuals using basic tools. Today, manufacturing is characterised by the seamless integration of machines and automation technologies into the production process. Automation, from routine assembly tasks to complex operations like cutting and welding, has become a cornerstone of modern manufacturing.

The past decade has witnessed remarkable technological advancements in manufacturing, with artificial intelligence, machine learning, robotics, and automation enhancing quality, resilience, and efficiency. What was once optional has now become imperative for companies aiming to stay competitive in the 21<sup>st</sup> century.

Automation, in its various forms, covers a broad spectrum. From simple machines handling repetitive tasks to advanced robotics and artificial intelligence managing complex operations with minimal human intervention, the benefits are manifold. These include increased throughput, improved accuracy, reduced labour costs, enhanced safety, and heightened customer satisfaction.

Trends such as increased technology integration, the rise of artificial intelligence, and the use of 'smart' tools, as highlighted in Deloitte's 2023 Manufacturing Report\*, are poised to bring transformative changes that will shape and bolster the manufacturing sector further.

Manufacturers need to be agile not only in adopting the latest technologies but also in fostering a culture that embraces change. The pace of technological advancement demands an organisational mindset that sees challenges as opportunities and disruption as a chance to innovate. It involves rethinking entire workflows and business models in addition to automating

existing operations.

The evolution of manufacturing lies in seamlessly integrating human intelligence with the capabilities of modern technologies and automation. This collaborative partnership ensures that machines handle repetitive or intricate tasks with precision, while human creativity remains at the forefront, guiding overarching strategy and decision-making processes.

Understanding the intricacies and possibilities within manufacturing is crucial for maintaining a competitive edge in the global market. Automation has transcended being a mere choice; it is now an integral part of modern manufacturing. The upcoming years hold great promise, with continued integration of automation and technological advancements poised to make the manufacturing sector more productive, efficient, and innovative.

Automation is about enhancing human talents and opening up new opportunities, not just substituting machines for human labour. In tasks requiring cognitive abilities, robots can now equal or surpass humans through a combination of artificial intelligence and machine learning. This is a story about the growth of skills, allowing humans to concentrate on higher-order thinking, creativity, and problem-solving while assigning regular and repetitive activities to machines.

In realising the importance of automation, it is clear that technological integration is not only necessary but also a strategic requirement for businesses looking to prosper in the changing business environment. The long-term effects of automation are far-reaching, changing the nature of work, business structure, and economic growth.

During this shift, the roles of governments and policymakers become pivotal. Cooperation between public and commercial agencies is essential to ensure that the benefits of automation reach everyone and that no one is left out in this technological revolution.

While automation promises increased efficiency and productivity, it also raises ethical considerations. The responsible development and deployment of AI, robotics, and automation demand careful scrutiny. Addressing challenges, from job displacement to bias in algorithms, requires a collective effort from industry, academia, and policymakers.

It's not just about robots taking over; it's about people and machines collaborating to reach unprecedented levels of creativity and productivity. As we enter this new





era, automation must be viewed as a catalyst for social transformation as much as a tool for monetary savings. The next chapter in manufacturing is a story of collaboration, adaptability, and the limitless possibilities that arise when human intelligence converges with the capabilities of modern technologies.

The impact of automation extends beyond the manufacturing floors, influencing education and prompting a shift in the skills prioritised for the future workforce. The workforce must possess a combination of critical thinking, adaptability, and technical literacy. Continuous learning becomes crucial as technological developments unfold.

The manufacturing industry has undergone a monumental shift towards automation and technological integration. The evolution from manual craftsmanship to a high-tech landscape signifies not just progress but a

paradigm shift in how we perceive and approach manufacturing. The future holds great promise, with the synergy between human intelligence and technological capabilities paving the way for unprecedented levels of efficiency, creativity, and productivity. As we navigate this transformative journey, it is crucial for businesses, policymakers, and society at large to collaboratively embrace and steer the course of automation, ensuring its responsible and inclusive deployment for the betterment of all.

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\*<https://www.deloitte.com/global/en/Industries/industrial-construction/analysis/gx-manufacturing-industry-outlook.html>

#### About the author



Bharanidharan S, Chief Manager of Software at Addverb, is a dynamic supply chain professional with 13 years of experience and operational expertise in automated paint manufacturing. With a background in computer science and a postgraduate degree in industrial engineering, he has excelled in roles at Asian Paints, driving manufacturing analytics, operational excellence, and process reliability.



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# Why sustainability is imperative for Indian manufacturing sector

India is expected to export goods worth \$1 trillion by 2030. With the ever-increasing accolades and stories of success, it becomes imperative for India, its governance, and the organisation's leadership to grow sustainably, writes **Sarita Das**.

**N**umbers do tell a story. A story that outlines the presence of the Indian manufacturing sector and its continuous journey to becoming the global manufacturing hub. With industry pundits expecting India to export goods worth \$1 trillion by 2030, it is not surprising that manufacturing contributes to 17 per cent of India's GDP and employs over 27.3 million workers. It is safe to say that these numbers will continue to go up north.

But with the ever-increasing accolades and stories of success, it becomes imperative for a nation, its governance, and the organisation's leadership to grow sustainably. A way that is as disruptive as it is ethical, as scalable as it is carbon neutral. The fact that an enterprise's objectives stay in line with those of the greater good. A notion that can and is transpired into reality through the adoption of sustainability in the Indian manufacturing sector.

When we speak of sustainability, one never implies letting go of the framework that is at play at the heart of an organisation; it simply means being conscious of every process that is directly or indirectly starting a chain reaction of heavy GHG emissions. The very GHG emissions, whose rising numbers are an extreme cause of concern not just for the current inhabitants but also for the future generation who deserve to thrive in a clean and green environment like the one our forefathers and those before them did. A process that underlines the value of the resources the planet has given us and the role of technology in ensuring that we give back more than what we have utilised.

With the ticker of concerns like global warming, rising sea levels, and losing biodiversity appearing in the news hour, the importance of a rising manufacturing presence (India) couldn't have been more accustomed to the present industries' challenges. India, being an up-and-coming poster boy of all good things by its balancing act of technology and efficiency in the process (referring to ISRO's tremendous success in 2023), is being looked upon to set the marker for how to follow a lead by



infusing ethical practices that prioritise the environment and those dependent on it. And here's how we as a nation are going about it.

## What's being done?

A bigger goal is achieved through collaborative efforts. In the context of sustainability, it is the governance and organisation running their business in the country. To start with the role of authority, the initiative taken by the current administration focuses on the utilisation of renewable energy. Policy initiatives like the Energy Conservation Act mandate energy efficiency standards for industries across the board; with the National Solar Mission, the government has shifted focus to enterprises with solar energy driving a chunk of their operation; similarly, on the financial front, the govt. provides an easier flow of credit for companies investing in sustainable technologies.

Furthermore, all these initiatives are done irrespective of the scale of the organisation's operations, driving sustainability notions ahead.

While this is the one end of the story, much of the heavy lifting is dependent on how a company makes way for sustainability tactics in its daily operations. Here are a few methods driving the titular change.

- **Renewable energy adoption:** Backing government policies, industries, irrespective of scale are turning to renewable energy. This counters the carbon emissions metrics and dials down fossil fuel dependency. Setting in motion a future where zero carbon footprint will be a reality.
- **Resource efficiency:** Upgraded tech platforms like AI and machine learning have prioritised optimisation and efficiency of the resources at work. This includes optimising natural resources like water and its subsequent wastage handling. The 3Rs concept, Reduce, Reuse, and Recycle, has seen its adoption catalysed by technology's inception.

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**With employees being the direct contributors to a company's sustainability initiatives, an organisation should hold training sessions and awareness campaigns to facilitate greener practices amongst its employees.**

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- **Lean manufacturing:** With a focus on manufacturing principles like reducing waste, optimising production processes, and minimising inventory, lean manufacturing improves resource efficiency and reduces environmental impact.
- **Sustainable supply chains:** A backbone to any organisation, a Google search will tell you that the value chain accounts for about 80 per cent of greenhouse gas emissions. To ensure that the said percentage down trades to the vicinity of negligible, companies are now collaborating with their suppliers to ensure ethical sourcing practices and promote sustainability throughout their supply chains. This covers sourcing from environmentally responsible suppliers, minimising transportation emissions, and promoting ethical practices and transparency in sourcing practices.
- **Green buildings:** A company focuses on how its end users perceive it. After all, a good word of mouth drives a business in the right direction. Keeping the constructive conversation around a brand going, organisations are now adopting green building practices, reducing their facilities' energy utilization and environmental impact. This ranges in the form of designing energy-efficient buildings, utilising natural daylight and ventilation, and implementing green construction materials.
- **Employee onboarding:** Every stakeholder must believe in the cause that drives a better tomorrow. With employees being the direct contributors to a company's sustainability initiatives, an organisation should hold training sessions and awareness campaigns to facilitate greener practices amongst its employees. Be it by using collective transportation facilities or participating in green projects.

While the foundation and the resources are in place to make the Indian manufacturing sector more sustainable, its path to future success does find some hurdles in the present. Technology, though confronting the said challenges, is still a work in progress because of its novelty, leaving some room for the desired impact.

### The challenges

The ascendancy to the objective is well underway, but here are a few roadblocks for the decision-makers to address.

- **Technology adoption irrespective of their scale:** Technology's implementation requires a foundation, whether upskilling the employees or upgrading the IT infrastructure. But most importantly, it requires the financial capability to get it to fruition. Because of their relatively low economic prowess, medium- and small-scale enterprises sometimes lack the technological advancement to make their business adept at embracing sustainable operations.
- **Upskilling workforce:** Taking off from the point mentioned above, software promoting sustainable



operations requires workforce training sessions for their potential to be utilized to the fullest. Lack of it will simply mean a bad investment.

- **Collaboration:** One critical backdrop of traditional methods was the lack of transparency between the multiple stakeholders within an institution. While tech platforms, with their intuitiveness, have bridged the gap, the stakeholders still need to make collaboration amongst other factions of enterprise a priority. Delayed collaboration will drive delayed vital decisions.
- **Data handling:** If not for the data, then every process will be devoid of its purpose. Handling crucial information through a proper vetting process and accessibility framework gives an organisation critical insight regarding its sustainable operations. With the manufacturing industry involving processes from procurement to the development of the final good, it goes without saying that data is indeed a priority.

### Long-term benefit of sustainability

With a timely resolution to the problem statement above, one can safely assume that the path of sustainability in the Indian manufacturing sector will tick off great heights. Companies, too, have now come to understand the long-term benefit of sustainability, not only on the front of revenue generation but also the positive impact it lends to a brand value and the constructive outlook from a user point of view, making association with a brand more in solidarity rather than a one-time instance. Not to forget, all virtues lead to the ultimate objective of making Indian manufacturing sustainable.

IPF

### About the author:



Sarita Das is the Co-Founder and Director of 3SC Solutions. Hailing from a business family, Sarita Das always had an entrepreneurial streak in her. Before starting 3SC Consulting with her husband Lalit Das, she worked as a human resource professional for several MNCs such as Visteon, Bayer, Nunhems,

Zimmer Biomet, and Elektro. With strong conviction and a zeal to succeed, she and her team built a business that has a footprint in India as well as Europe, with a workforce of 250+ professionals.



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# Role of modern technologies & automation in green engineering

The convergence of modern technologies and digital twins is more than just a technological achievement; it represents a paradigm change toward engineering that is wiser, greener, and more responsible for future generations says **Avi Dahiya**.

In a world where 73 per cent of millennials prioritise environmentally conscious businesses, going green is more than a trend—it's an essential shift. Embracing LOHAS (Lifestyles of Health and Sustainability) principles aligns strategically with the values of eco-conscious consumers. Likewise, green engineering involves designing and implementing processes/products that minimise pollution, promote sustainability, and protect human health, all while maintaining economic viability. It's not just a benefit to your business; it contributes to a positive global shift by integrating technological advancements with eco-friendly practices.

Imagine this – “by embracing technologies that benefit both your business and the Earth, you not only appeal to a growing consumer base but also contribute to a positive global shift.”



Image courtesy: Freepik

## The current manufacturing landscape

The manufacturing industry is changing dramatically, driven by the dual goals of becoming a global hub and embracing sustainability. Innovation is happening quicker than ever before since the advent of game-changing technologies like digitalisation, robotics, AI, and 3D printing. As we step into an era where climate change, resource depletion, and pollution are urgent problems, ‘Sustainability’ is the talk of the town. And guess who’s leading the charge? Engineering! With its arsenal of cutting-edge technologies, engineering is reshaping industries and guiding us toward a greener, more sustainable world.

## Challenges in the manufacturing sector

The manufacturing sector, particularly in heavy industries such as power, chemicals, oil and gas, and mining, faces unprecedented challenges amid technological shifts and the imperative to address climate change. The need to reshape traditional business models was evident long before the pandemic, and in the post-pandemic era, this imperative has only intensified. Recently, there has been an announcement of a carbon emission tax on manufacturing, initially affecting industrial materials the most. While this tariff poses challenges, especially for countries majorly producing steel or iron, it also presents an opportunity to curtail emissions, thereby positively impacting the environment. The geopolitical implications of such taxes are particularly felt in developing countries.

Engineers now led the charge, managing time, cost,

and reporting with vast amounts of engineering data to drive the energy transition and meet digital transformation needs effectively. Recognising these challenges, it is crucial to understand how emerging technologies can propel us toward a future of ‘Green Engineering.’ This journey holds the promise of a world where progress and environmental responsibility coexist, meeting the expectations of a generation deeply concerned about the planet. Staying informed about the pertinent trends, technologies, and opportunities is imperative to leverage modern engineering as a force for positive change.

## Government vision and global manufacturing hub

The government envisions India as a global manufacturing hub, a powerhouse driving innovation and sustainability. To achieve this ambitious goal, a multi-faceted approach is imperative. This involves creating an ecosystem that fosters innovation, incentivises sustainable practices, and supports the integration of cutting-edge technologies into manufacturing processes. Investment in research and development, collaboration between industries and academia, and the formulation of policies that encourage sustainable practices will be key elements in transforming this vision into reality.

The government’s role extends beyond policy formulation; it involves active participation in global initiatives for sustainable development. Collaborating with international partners, sharing best practices, and aligning with global sustainability standards will position India as a responsible global player in the manufacturing.



## Sustainable development goals and modern technologies

To achieve sustainable development goals, a comprehensive understanding of modern technologies is crucial. Each technology plays a unique role in reshaping the manufacturing landscape towards sustainability:

- **3D Printing:** Also known as additive manufacturing, 3D printing significantly reduces material wastage. Material wastage in 3D printing is minimal due to its additive manufacturing process. It enables decentralised manufacturing, offering the flexibility to produce small quantities and promoting green design. This technology revolutionises traditional manufacturing methods, aligning them with sustainability goals.

One of the early adopters of this technology is the aerospace and aviation industry. 3D printing in the aviation industry ensures prototyping and end-use applications and helps in the manufacturing of stronger and lighter parts.

- **Digitalisation:** The integration of digital technologies into manufacturing processes enhances efficiency, reduces waste, and allows for real-time monitoring. Energy monitoring systems, like smart meters, drive the digitalisation of manufacturing for enhanced sustainability. They enable real-time tracking, optimising energy use,

reducing costs, and ensuring equipment longevity. Automated alerts prevent issues, support environmental goals, aid compliance, and facilitate resource-efficient operations.

- **Robotics:** While traditional factories grapple with human limitations, such as fixed working hours, the integration of robotics promises 24/7 operations without fatigue. This shift enhances production quality, ensuring precision, reducing distractions, and minimising errors and defects, resulting in top-notch products. The use of robotics leads to a sustainable process as it results in a lesser number of rejections, contributing to overall operational efficiency and the production of high-quality goods.
- **Artificial Intelligence (AI):** AI contributes to energy conservation by building and optimising machines that consume less energy. Through simulations and data analytics, AI identifies patterns for energy optimisation, leading to more sustainable manufacturing practices. Simulations and models guided by AI not only enhance energy conservation but also lead to a reduction in material usage.

Going beyond traditional dashboards, AI streamlines processes, minimises downtimes, forecasts demand accurately, optimises the workforce, and enhances supply chain intelligence. Analysing extensive data streams, transforms them

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into valuable insights, facilitating early fault detection and informed decision-making. In doing so, AI creates a manufacturing environment where human-robot synergy thrives, laying the foundation for the factories of the future.

- **Blockchain:** While not explicitly mentioned, blockchain technology can play a crucial role in ensuring the transparency and traceability of the supply chain. Blockchain enables reverse traceability, facilitates the integration of carbon credits, and proves valuable for macro-scale tracking. This, in turn, contributes to sustainable and ethical manufacturing practices, aligning with global standards.

### Implementing digital twins

As we look into the intricacies of each technology, it becomes evident that their collective integration is pivotal for achieving sustainable development goals.

These technologies are not isolated solutions but interconnected components of a holistic approach towards green engineering.

Employing digital twins involves real-time updates using cloud systems and IoT, ensuring accuracy in heavy industries. Digital twins are virtual replicas of physical entities, like a power plant or refinery, used to streamline planning and execution. This technology tackles challenges of data silos, saving engineers' time, and enhancing decision-making. Amid technology trends and climate change, industries are adopting digital twins to drive energy transition, meet digital transformation needs, and overcome complexities in time, cost management, and reporting. Digital twins are indispensable for maintaining current information, making informed decisions, and refining change management strategies.

### Benefits of digital twins for engineers:-

- **Real-time decision-making:** Empowering engineers with real-time information, companies adopting digital twin technology have significantly reduced decision time for optimal designs to less than a minute. This streamlined process is particularly beneficial in handover scenarios that involve cross-referencing information from multiple stakeholders.
- **Enhanced collaboration:** Early-stage digital prototypes, a creation of digital twins, fosters collaboration among stakeholders, including customers. This collaborative environment allows engineering teams to validate complex asset designs in the Front-End Engineering Design (FEED) phase, ensuring all stakeholders work in a single platform with updated designs.
- **Improved planning efficiency:** Industrial organisations employing digital twins achieve a 10-30 per cent increase in planning efficiency and a 15 per cent reduction in staff hours. Cloud solutions and visualisation tools play a pivotal role in enabling seamless project completion within

budget and on time, thereby reducing extra work hours and uncertainty.

- **Contribution to sustainability goals:** Digital twins play a crucial role in contributing to sustainability goals by improving asset efficiency and minimising the need for travel to worksites. In brownfield engineering scenarios, the integration of 3D scan data into digital twins supports various use cases such as maintenance planning and workforce training, effectively reducing travel costs and carbon footprints.
- **Cost and resource efficiency:** Digital twins require cloud systems and IoT solutions, resulting in reduced costs and optimised IT resources. Cloud services facilitate faster, and more efficient data transmission compared to conventional methods, supporting seamless communication between the physical entity and its digital replica.
- **Enhanced decision-making through visualisation:** The combination of 3D models and laser scanning enhances decision-making by providing a true digital replica of the existing infrastructure. This accessibility to real-time information aids in better decision-making, change management, and risk mitigation strategies.

### Final thoughts

As sectors aspire for sustainability and nations strive to become global manufacturing hubs, the convergence of current technology and digital twin solutions emerges as a powerful force. The digital twin market's continued expansion demonstrates its transformational potential. Adopting digital twins is not an option for engineers; it is a strategic need. When it comes to navigating the intricacies of today's manufacturing scene, digital twins are a ray of hope, directing engineers toward more effective decision-making, collaborative innovation, streamlined budgeting, and a more sustainable future. The convergence of modern technologies and digital twins is more than just a technological achievement; it represents a paradigm change toward engineering that is wiser, greener, and more responsible for future generations. This holistic strategy, which integrates digital twins with modern technology, promises a future in which engineering is not only sustainable, but also intelligent and responsive to society's changing requirements. **IPF**

### About the Author



Avi Dahiya is the founder & CEO of Twyn. As a DeepTech futurist and technology evangelist, Dahiya has explored the uncharted territories of technology. His astute insights into evolving technology trends led to the launch of the world's first

Phygital Twin DeepTech enterprise SaaS startup Twyn in 2021. He was also recognised as one of the Youngest Business Leaders in the '40 Under 40 Leaders List 2023 by The Times Group.



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# Navigating sustainable injection moulding technology

With the demand for injection-moulded products, especially in the medical devices sector, set to surge between 2023 and 2030, the industry faces a pivotal challenge—balancing cost-effectiveness with environmental responsibility, says **Hemant Minocha**.



In an era dominated by environmental concerns, the plastic manufacturing industry finds itself at a critical juncture, tasked with redefining its processes for a sustainable future. The imperative for change is underscored by the Journal of Clean Production's revelation that injection moulding may contribute up to 90 per cent of the Global Warming Potential (GWP) associated with the entire mould lifecycle. With the demand for injection-moulded products, especially in the medical devices sector, set to surge between 2023 and 2030, the industry faces a pivotal challenge — balancing cost-effectiveness with environmental responsibility.

As compared to other industries such as steel, cement, etc, plastic production and disposal emits around 3 per cent of global emissions. However, despite this relatively lower emission, concerns about industries' contributing to climate change remains undeniable.

The urgency of the environmental crisis requires immediate action from companies to transform their production methods. As brands commit to consciously embracing a more sustainable manufacturing future, they face the challenge of choosing the most effective approach to implement green practices. Luckily, technological advancements and digital innovations offer manufacturers a swift and efficient means to adopt green design innovations, enabling brands to expedite their journey toward a sustainable future.

In the quest for sustainability, innovative plastics processing methods play a crucial role. Closed-loop systems, energy-efficient equipment, recycled content, biodegradable plastics, and automation and AI integration are examples of initiatives that contribute to waste reduction and resource conservation. Collaborative efforts across the supply chain are key, as injection mould suppliers partner with clients to design products with durability and recyclability in mind.

## Indian processing industry

India's manufacturing sector that is currently responsible for almost 40 per cent of the nation's total energy consumption stands as a key driver of India's economic growth. However, this substantial contribution also designates it as a major emitter of greenhouse gases. As India aims to reach a \$10 trillion economy with a targeted enhancement of the manufacturing sector, recognising and addressing global environmental sustainability goals becomes imperative.

The energy-intensive nature of manufacturing processes in India presents challenges, significantly adding to the country's energy consumption and carbon emissions. Traditional manufacturing methods often involve high energy usage, resulting in an expanded carbon footprint. This situation highlights the urgency for the industry to adopt sustainable practices aligning with both national and global environmental objectives.

In response to the environmental imperative, India's manufacturing sector has been steadily undertaking various measures to decrease its carbon footprint and champion sustainable manufacturing:

- **Adoption of energy-efficient technologies:** Manufacturers are increasingly investing in energy-efficient technologies to optimise production processes. This involves the incorporation of advanced machinery and equipment designed to minimise energy consumption while maintaining or enhancing productivity.
- **Integration of renewable energy:** A shift toward renewable energy sources is in progress, with increasing number of manufacturers integrating solar and wind energy into their operations for a cleaner and more sustainable energy mix.
- **Minimisation of waste and recycling:** Manufacturers are implementing strategies for waste reduction, recycling initiatives, and closed-loop systems to foster a circular economy approach.
- **Emphasis on green supply chains:** Many manufacturers are focusing on green supply chain practices, collaborating with suppliers committed to environmentally friendly processes.
- **Investment in research and development:** The sector is dedicating resources to research and development to explore innovative solutions including creation of eco-friendly materials, processes, and technologies aimed at reducing the environmental impact.



- **Government-led initiatives:** The Indian government has introduced initiatives and policies to encourage sustainable practices in the manufacturing sector. This includes offering incentives for adopting cleaner technologies, promoting energy efficiency, and adhering to environmental standards.

After being approved by both houses of Parliament in India, the Energy Conservation (Amendment) Act 2022, which amends the 2001 Energy Conservation Act, came into force on January 1, 2023. The amendment empowers the central government to specify a carbon credit trading scheme and reduce carbon emissions.

In addition, designated consumers, including those in the industrial and transport sectors, may be required to meet a proportion of their energy needs from non-fossil sources, and energy consumption standards may be applied to vehicles and ships. The Act seeks to facilitate the achievement of COP-26 goals and, by introducing concepts such as mandated use of non-fossil sources and carbon credit trading, to ensure faster decarbonisation of the Indian economy.

Through continuous investments in cleaner technologies, adoption of renewable energy, and the integration of sustainable processes, India's manufacturing sector is positioned to not only play a transformative role in advancing the country's economic agenda and but also in shaping a more sustainable future for India's manufacturing landscape.

### Injection moulding & sustainability

Injection moulded plastic components are widely used by many industries and is also perhaps the most widely used processing technology. As with all industries, processors need to look to improve their environmental, social, and corporate governance (ESG), and make sure every part of their supply chain, production processes and products is as sustainable as possible. Whether it's reducing their carbon footprint, using renewable raw materials or implementing a closed-loop control system, injection moulders are already taking action to make their businesses greener.

### The dilemma of energy consumption: Hydraulic vs electric machines

Over 90 per cent of injection moulding costs is attributed to energy consumption, primarily electricity

powering the injection moulding machines. The debate rages on regarding the cost and sustainability advantages of hydraulic injection moulding versus all-electric machines. While hydraulic machines boast lower initial costs and can produce higher energy levels, their Achilles' heel lies in high electric energy consumption throughout the moulding process. Striking a balance between business interests and sustainability is the crux of the matter.

### Key sustainability values in injection moulding

Aligning with sustainability values involves rethinking injection moulding processes, materials, and end products. Design for Manufacturing (DfM) focuses on waste reduction, cost efficiency, and quality optimisation, aligning with the core values of sustainable design. Material selection plays a pivotal role, considering eco-friendlier options like biodegradable or compostable plastics, recycled plastic resins, and innovative materials.

Processors are also focusing in using energy- and water-efficient equipment, optimising efficiency losses, prioritising renewable energy sources, and leveraging automation and AI to minimise scrap rates. Closed loop systems contribute to waste reduction and resource conservation while collaborative efforts across the supply chain are key, as injection mould suppliers partner with clients to design products with durability and recyclability in mind.

### The path forward: Innovation and technology

Embracing sustainable practices positions manufacturers not only to meet regulatory requirements but also to become integral assets to their communities. Many injection mould suppliers are actively designing products for a circular economy, promoting longer lifespans and easy disassembly for recycling. This collaborative approach minimises the need for constant new plastic production and aligns with the growing industry standard of sustainability.

As sustainability becomes the new industry standard, injection moulding has the opportunity to leverage innovation and technology for a greener, cleaner manufacturing process and manufacturers of plastics remain committed to reducing environmental impact, enhancing operational efficiency, and contributing to a circular economy are poised for success in this evolving landscape.

IPF

### About the author:



Hemant Minocha is the Chairman of the Plastics Export Promotion Council (Plexconcil), which is the apex body of the plastics industry in India representing over 3000 exporters who manufacture/ trade in plastics products ranging from plastics raw materials to semi-finished and finished items. Minocha is also the Director of Rajiv Plastics Pvt Ltd, a leading colour & additive masterbatch and polymer compound manufacturer in India.



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# Engineering simulation: Powering green manufacturing in India

It is pertinent for India's manufacturing sector to make continuous efforts to adopt a sustainable approach says **Prashant Khare** while discussing the essential aspects of sustainable manufacturing and how simulation plays a crucial role in achieving the same.

**M**anufacturing is an integral pillar in India's economic growth, owing to the performance of the automotive, engineering, chemical, pharmaceutical, and consumer durable sectors. 17 per cent of the nation's GDP is from manufacturing (IBEF), employing over 27.3 million people. Also, the Indian government hopes to have 25 per cent of the economy's output from manufacturing by 2025. However, the manufacturing sector in India currently contributes to nearly 40 per cent of the country's total energy consumption, and it is also one of the significant sources of greenhouse gas emissions, which stood at 2.88 gigatons in 2021.

Given India's growth aspirations, it must decouple the growth from emissions. There is an ambitious plan to produce 50 per cent energy through green means by 2030 and zero emissions by 2070! Therefore, it is pertinent for India's manufacturing sector to make continuous efforts to adopt a sustainable approach.

Sustainable manufacturing produces economically viable products that can diminish adverse environmental effects and save energy. Engineering simulation is a scientific way of ensuring improved manufacturing processes by virtual testing before production. This reduces the design iteration wastage and ensures optimum efficient production techniques to produce a robust and reliable product. Engineers today can build better products quickly and sustainably while knowing beforehand how these product designs will perform in the real world. For end-to-end sustainable manufacturing, one must have a holistic view of design and engineering methods, sourcing channels, operational processes, and supply chains. Let's discuss some of the essential aspects of sustainable manufacturing and how simulation plays a crucial role in achieving the same.

## Carbon-neutral strategies across different facets of manufacturing

The manufacturing industry is the most significant contributor to global warming, so it is essential to cut greenhouse gas emissions to as close to zero as possible.

Simulation is the answer! Leading American energy company has used CFD simulations to design low NO<sub>x</sub> burners to retrofit their existing furnaces. These new burners helped achieve a significant reduction in emissions.

Few global companies have developed sustainable manufacturing processes using carbon capture

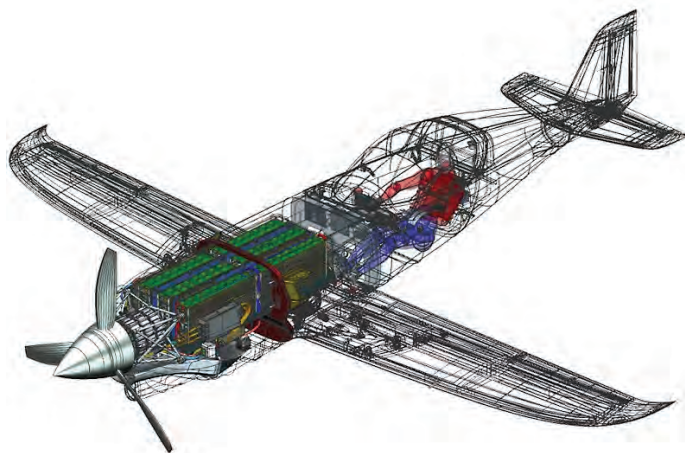
technologies. Here, CFD simulation has been used extensively to design and optimise the various CO<sub>2</sub> capture technologies such as absorption, fluidised bed, and chemical looping.

## Material selection optimisation

Material selection and strategies become imperative to enable continued reduction of energy and CO<sub>2</sub> emissions before manufacturing any product, with precise data around the types of material used, which is a driving factor in future product designs.

With the help of material data management solutions, manufacturers can understand material data and its impacts on sustainability and broader societal factors to formulate the right strategy for their product manufacturing. From a sustainability perspective, an eco-audit of material selection is essential for the environmental impact assessment.

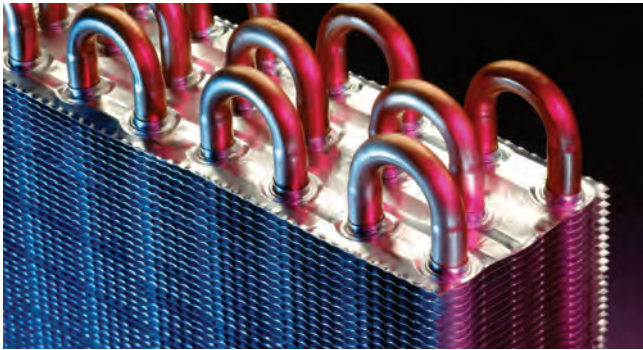
A leading aerospace could rapidly answer complex questions regarding the optimum material, mechanical, thermal, and electrical resistivity requirements for battery cell holder. Further, they were able to compare the environmental and regulatory impact of their selected polycarbonate to effectively assess its impact on overall sustainability and reduce its carbon footprint of the aircraft.



Optimised electric plane design

## Energy-efficient process simulations

Digital engineering has a significant influence on energy efficiency and sustainability. Simulation solutions facilitate a safe and reliable transition to a lower-carbon



energy mix that will sustainably meet the world's growing and insatiable demand for power. It can fast-track low-carbon technology innovation and improve traditional energy sources' productivity, reliability, safety, and environmental footprint.

In the pursuit of alternate and safe fuel, NanoSUN, based in the UK, worked with Ansys CFD simulations to produce scalable green hydrogen fueling solutions that are safe and efficient. They use CFD simulations to track and monitor potential leaks within their hydrogen refueling stations to prevent fires. Using multiphysics modelling, a leading process equipment manufacturer reduced the material required by 14 per cent while increasing the heat exchanger's energy efficiency.

### Virtual prototyping



Simulation solutions enable complete virtual prototyping for manufacturing and design processes. This allows companies and engineers to develop products faster, test designs early in the development cycle, reduce the amount of physical prototyping required, and minimise raw material costs and decrease waste.

A leading American washing machine manufacturer used simulations to save 27 per cent in water

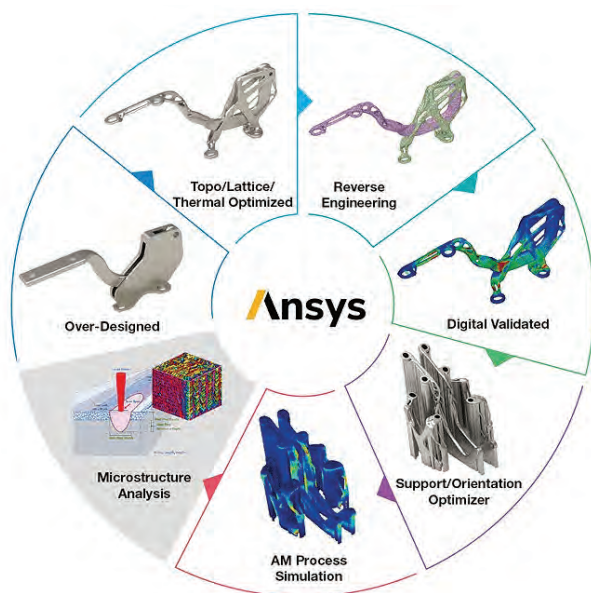
consumption, 11 per cent in energy consumption, and 8 per cent in waste production. Startup Nebia has developed a 70 per cent water-efficient shower using CFD tools, another excellent example in this direction.

### Lean manufacturing and supply chain management

The foundational principle of lean manufacturing is boosting productivity and reducing waste simultaneously. Manufacturers can test and optimise their processes in a risk-free virtual environment before executing them in the real world.

During the global pandemic, when supply chain logistics and traditional manufacturing stalled, organisations felt the need for digitally enabled additive manufacturing. Additive manufacturing and its integration into the software and digital ecosystem is a powerful tool in manufacturing supply chains. Decentralisation of suppliers and interchangeability will reduce further dependencies on the current supply chain infrastructure.

Additive Manufacturing simulation provides complete end-to-end workflow from design to manufacturing. It helps optimise 3D printing, including print design, process simulation and material analysis.



End-to-end 3D printing design workflow

### Digital twin

A digital twin is a virtual representation of a physical asset in operation. Digital twin can model entire manufacturing systems and enable real-time energy optimisation and emissions reduction monitoring.

Digital twin can reduce greenhouse gas emissions by managing the operation of assets and resulting in lower energy consumption, extending the useful life of an asset and saving the manufacturing emissions associated with building a new asset, and finally, by preventing fugitive emissions through real-time monitoring of emissions and potential leakages.



A simulation-driven digital twin enables engineers to explore 'what if' scenarios. Starting with the current state of the digital twin, which mirrors that of the physical asset, they can run physics-based simulations to determine what would happen if they reduced energy consumption, for example. By testing proposed changes virtually, they can see the results before making any changes to the physical asset and be assured that the change will be safe and beneficial to operations.



Digital Twin of gas turbine

### Digital transformation across industries

All sectors face challenges that are unique and growing. Simulation has the capability and tools to transform the design and production processes across industries.

In the aviation sector, cost reduction across the entire product life cycle and acceleration of developing safer and more sustainable aircraft systems are being done with simulation solutions. In the automotive industry, 1000x faster innovation can be achieved while improving safety and performance by simulating the digital twin of highly complex products throughout the product lifecycle.

It is necessary today to accelerate innovation with consumer goods and deliver competitively distinguished products to market faster and at a lower cost than the competition while also addressing sustainability concerns. For this, digital transformation of consumer product ideation, design and manufacturing processes is the key.

Regarding power, simulation supports a safe and reliable shift to a lower-carbon energy mix that will meet the world's rising and limitless demand for it more sustainably.

Enabling electronics technologies must deliver exceptional levels of reliability for 5G, autonomous vehicles, smart products, homes, cities, and factories to come to the market. Engineers face tremendous product reliability and performance challenges today with countless sensors, microprocessors, and connected components. Engineering simulation plays a vital role in facilitating high-tech companies to deliver innovative, reliable, energy-efficient, cost-effective, and quick-to-market products.

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### Conclusion

To summarise, simulation software like Ansys tools empowers companies to rapidly evaluate and scale sustainable innovations, reduce environmental impact, and foster a greener future. New products can be designed, developed, and deployed faster. Physical prototypes are reduced, and operations are streamlined to save energy and emissions. Simulation also helps identify lighter, better materials and more dynamic, collaborative processes to help the world operate sustainably. Simulation thus makes sustainable design more economically viable.

The government is aggressively promoting manufacturing in India with 'Make in India' and more favorable policies and incentives for green production. The different stakeholders in manufacturing, including the government, industry, and academia, must adopt and utilise these digital innovations for a greener future. **IPF**

### About the Author



Prashant Khare is currently working as Director, Application Engineering in Ansys. With an experience of 17 years and managing the team of CAE experts, focusing on Structural products, he has been

working closely with various industry teams at ANSYS and carries a rich experience of solving engineering problems for automotive, power, aviation, electronics and other Industries.



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# Refrigerant evolution: Tackling HFC to HFO transition challenges

The transition from hydrofluorocarbons (HFCs) to hydrofluoroolefins (HFOs) is a crucial step in reducing the carbon footprint of the refrigeration and cooling industry. However, it is important to adopt a balanced approach that considers various factors, including GWP, leakage potential, indirect emissions, safety, and cost-effectiveness, says **Wilson Lawrence**.

**L**ike the rest of the world, India faces environmental challenges ranging from resource depletion to pollution. Green engineering acts as a catalyst for sustainability, addressing these challenges head-on. By adopting eco-friendly practices like renewable energy, waste reduction, and optimised production processes, the manufacturing sector can significantly reduce its carbon footprint, align with the country's climate goals, and ensure a cleaner environment for future generations.

## A deeper understanding of green engineering

Embracing green engineering in manufacturing fosters innovation and technological advancement and positions companies at the forefront of global competitiveness. Investments in eco-friendly processes propel India as a hub for cutting-edge, sustainable manufacturing technologies, attracting investments, creating high-skilled jobs, and driving economic growth. Additionally, green engineering leads to long-term cost savings through the adoption of energy-efficient technologies and waste reduction, triggering a positive cycle of environmentally conscious production.

The government's crucial role in incentivising green initiatives and enforcing sustainable practices is integral for a greener manufacturing sector. India's recent initiatives, including the accelerated transition from hydrofluorocarbons (HFCs) to hydrofluoroolefins (HFOs) as refrigerants, showcase its emergence as a global leader in addressing environmental challenges and promoting sustainable practices.

A 2015 study by the UNEP Ozone Secretariat found that 65 per cent of global GWP-weighted HFC consumption in the RACHP market is for air-conditioning and heat pumps, while 35 per cent is for refrigeration. Notably, over 90 per cent of HFC use in refrigeration is concentrated in commercial and industrial systems. These figures highlight the critical role of HFCs in these industries and the significant potential impact of transitioning to more environment-friendly alternatives like HFOs.

## The "Hero Move": Transitioning from HFC to HFO

India's urgency to shift from harmful HFCs to more environmentally friendly HFOs is highlighted by a compelling 2022 study published in "Nature Climate



Change". This study, titled "Rapid emissions growth of potent greenhouse gases in India necessitates urgent mitigation", analysed satellite data and revealed a startling 20 per cent increase in HFC emissions from India between 2009 and 2018. This alarming rise is attributed to the country's booming air conditioning and refrigeration sectors, which heavily rely on HFCs.

The study emphasises the detrimental impact of HFCs on the environment. These synthetic gases are thousands of times more potent than carbon dioxide in trapping heat, making them more contributors to climate change. Additionally, HFCs are potent ozone-depleting substances, posing a threat to the Earth's protective ozone layer.

The transition to HFOs is an environmental imperative but also presents significant economic opportunities. Adopting HFOs will enable India to comply with its international obligations under the Kigali Amendment to the Montreal Protocol, which aims to phase down HFC production and consumption. This compliance will demonstrate India's commitment to green technologies, potentially attracting further investments.

## HFC to HFO: Impact of transition

The transition requires a collaborative effort from various stakeholders, including the government, industry leaders, and research institutions. It involves the whole industrial chain's cooperation from upstream to downstream, and enterprise also plays a crucial role. Policy measures such as financial incentives for HFO adoption, phase-out schedules for HFCs, and technician capacity-building programs will facilitate a smooth transition. Research and development efforts should focus on developing innovative HFO technologies and exploring alternative cooling solutions.



The research study serves as a wake-up call for India to take immediate action toward transitioning from HFCs to HFOs. By embracing this transition, India can not only safeguard its environment but also unlock new economic opportunities and contribute to global climate action. The time for action is now.

A recent case in India using HFO refrigerant in chillers (HFO 1233zd(E), HFO 514A, GWP < 2) has proven the energy efficiency advantage up to 13 per cent from baseline (HFC 134a) has given confidence to the industry in transitioning to HFOs.

Globally, HFC production and consumption have started to decline. The International Energy Agency estimates that HFC consumption peaked in 2018 and is projected to decline by 85 per cent by 2030. This decline can be attributed to development of commercially viable HFO alternatives, particularly for stationary air conditioning and refrigeration applications. Major manufacturers have announced HFC phase-out plans and actively invest in HFO technologies.

Policies like ICAP (India Cooling Action Plan) chapter 8 focus on government initiatives for R&D on LGWP alternatives to HFC. The government has taken several key actions in India to meet its HFC reduction goals under the Kigali Amendment. These actions include:

- Developing a National HFC Phase-out Plan: This plan outlines a roadmap for transitioning from HFCs to HFOs, including refrigerant quotas, phase-out schedules, and financial incentives for HFO adoption.
- Government and industry bodies like BIS (Bureau of Indian standards) are working to harmonise international standards with Indian standards like ISO /IEC 60334-2-40, the guideline for implementing A2L refrigerant that can pave way to usage of HFOs
- Promoting HFO Technology: The government has established a dedicated HFO task force to promote research and development of HFO technologies and support the transition for Indian manufacturers.
- Training and Certification Programs: The government and NSDC (National Skill Development Corporation) provide training programs for technicians and engineers on safely handling and servicing HFO-based equipment.
- Financial Incentives: The government offers financial incentives such as subsidies and tax breaks to encourage the adoption of HFO technologies by companies and individuals.

### Challenges and continuing momentum

These actions have resulted in a growing momentum for HFC phase-out in India. The Indian HFC market is projected to reach almost \$1 billion by 2027, with HFOs accounting for an increasing share. While challenges remain, India is demonstrating significant progress towards its HFC phase-out goals and contributing to global efforts to combat climate change.

Building on this momentum and meeting the ambitious 2036 target will require sustained collaboration between government, industry, and civil society. Further efforts are needed in policy enforcement, capacity building, and public awareness campaigns to ensure a successful and sustainable transition to a low-GWP future.

India's strategy to shift from HFCs to HFOs relies on various interconnected initiatives. Financial incentives support industries in adopting HFO technologies, while awareness programs educate stakeholders about the environmental impact of HFCs versus the benefits of HFOs.

Internationally, collaboration with developed nations shares best practices in phasing down HFCs and embracing HFOs. India also aids developing countries, sharing its expertise for Kigali Amendment compliance.

### Moving forward: A balanced approach to refrigerant transition

The transition from HFCs to HFOs is a crucial step in reducing the carbon footprint of the refrigeration and cooling industry. However, it is important to adopt a balanced approach that considers various factors, including GWP, leakage potential, indirect emissions, safety, and cost-effectiveness.

In addition to HFOs, other low-GWP alternatives like ammonia, carbon dioxide, and hydrocarbons are also being explored, and the optimal choice may depend on the specific application. Continuous research and development are needed to further reduce refrigerants' environmental impact and ensure a sustainable future for the cooling and heating industry.

### Conclusion: Green leadership paves the way

India's embrace of green engineering in manufacturing is a pivotal force, tackling issues of resource scarcity and environmental degradation head-on. The deliberate transition from HFCs to environment-friendly HFOs, spotlighted by the Kigali Amendment, underscores India's steadfast dedication to global environmental stewardship. Through a focus on minimising environmental footprints across product lifecycles, this approach not only nurtures sustainability but also propels technological innovations and curtails enduring operational expenses. The incentivization of eco-conscious endeavours further underscores India's unwavering pledge toward a more sustainable tomorrow.

IPF

### About the author:



Wilson Lawrence leads the Global Engineering and Technology Centers of Trane Technologies located in Bangalore and Chennai. In this role, he is leading a team of 700+ engineering professionals to drive product innovation and development for the company's business across the globe. He and his team are credited for integrating new age technologies in the HVAC and transport segment for better efficiency.



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# Sustainable growth: Nurturing green manufacturing in India

Amidst the discussion around sustainability **Bheemsingh Melchisedec** presents this article which aims to unravel the significance of green engineering in the multifaceted realm of economic growth, health preservation, and environmental impact mitigation.

**T**he Indian manufacturing sector, renowned as a catalyst for economic growth, has consistently propelled the nation forward. India's manufacturing prowess is gaining global recognition, fuelled by skilled resources and bolstered by factors such as quality production and robust domestic and export demand. However, as the industry continues to surge, the pressing need for green manufacturing practices has come to the forefront. This article aims to unravel the significance of green engineering in the multifaceted realm of economic growth, health preservation, and environmental impact mitigation.

## Green engineering's holistic approach

Green engineering, often synonymous with green manufacturing, focuses not only on economic growth but also on health and environmental impacts of human and other ecosystem in the planet through sustainable business practices in the manufacturing processes. Beyond the policies and practices, the advent of technology, digital transformation, and strategic business initiatives collectively propel the manufacturing sector into green engineering. The emphasis is on reducing direct emissions and embracing sustainable practices that foster positive corporate images and enhance organisational reputations globally.

## Crafting carbon-neutral strategies

The term 'carbon neutral' takes centre stage, representing the neutralisation of carbon emissions across the manufacturing life cycle. A comprehensive framework is essential, including specific objectives and targets for achieving green goals and carbon neutrality within defined timelines.

## Practical tips for SMEs to embrace green engineering

Small and medium enterprises (SMEs), while facing unique challenges, can adopt green engineering with helpful tips:

- ❑ **Innovative design with low-carbon emission materials:** Design products with materials that contribute to lower carbon emissions. Focus on sustainable resource management in product development, adopting value engineering concepts.
- ❑ **Energy management system implementation:** Implement a systematic and scientific energy



- management system to optimise consumption.
- ❑ **Energy aspect study for optimisation:** Conduct energy aspect studies on machines and equipment to identify potential optimisation opportunities.
- ❑ **Performance indicators for energy efficiency:** Set energy performance indicators to continuously improve efficiency, analysing consumption data using online monitoring systems. Drive energy management programs across the organisation, identifying and addressing significant energy use areas.
- ❑ **Renewable energy adoption:** Embrace renewable energy sources such as solar and wind power, replacing fossil fuel-based energy.
- ❑ **Transition to battery-operated equipment:** Replace fossil fuel-operated equipment with energy-efficient battery-operated alternatives.
- ❑ **Rainwater harvesting enhancement:** Strengthen rainwater harvesting systems, both industrial and external, to maximise water collection.
- ❑ **Green initiatives like tree plantation:** Drive green initiatives like tree plantation both within and outside the organisation, aligning with CSR programs.
- ❑ **Supply chain alignment:** Engage with suppliers to promote sustainable practices throughout the supply chain, establishing green supply chain management. Collaborate with suppliers or service providers practicing green manufacturing.
- ❑ **Adopting paperless operations:** Introduce paperless document management systems to conserve natural resources and enhance operational efficiency.
- ❑ **Effective waste management system:** Establish a



robust waste management system, adhering to 'Reduce – Recycle – Reuse' principles and statutory requirements.

- ❑ **Employee awareness programs:** Conduct awareness programs among employees, educating them on sustainable business practices and their benefits.
- ❑ **Certifications and audit engagement:** Inspire others by engaging third-party certifications and audits, regularly reviewing and publishing results. Conduct regular air, energy, and process audits to prevent energy loss and identify improvement opportunities.

### Role of modern technologies and automation

Cutting-edge technologies and automation in products and services significantly boost process efficiency in manufacturing sectors. Digital transformation has evolved and is now seamlessly integrated into numerous processes, unlocking opportunities to improve reliability and enhance productivity, as well as health and safety measures. The incorporation of Industry 4.0 technologies, along with IIoT devices for real-time monitoring and optimisation of energy and resources, aids in planning improvement actions for efficient energy and resource management. Adopting sensors and IoT devices enhances our ability to monitor and make informed decisions/

actions to improve energy management systems.

As India charts its course for industrial growth, green manufacturing emerges not just as a strategy but as an imperative. The adoption of sustainable practices offers not only economic resilience and global competitiveness but also underscores a commitment to environmental stewardship. In navigating this transformative journey, India's manufacturing sector can become a beacon of sustainable progress, harmonising economic prosperity with ecological preservation for generations to come. **IPF**

### About the author



Bheemsingh Melchisedec serves as the Director of Operations at ELGi. In his previous assignment, he served as the President and Board of directors for Rane Light Metal Castings America Inc, USA, where he led the company's operational turnaround. He was instrumental in winning the Deming Grand Prize for Rane Brake Lining Limited. He was with the Rane group

for over 16 years before joining ELGi. He holds a Master's degree in Business Administration from OUBS, UK. He also did courses in the field of manufacturing excellence, strategy, and leadership from IIM Ahmedabad, IIM Bangalore, ISB Hyderabad, and NUS, Singapore. Before the Rane group, he was with the Murugappa group and MRF Ltd.



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# How automation is boosting manufacturing in India

With the integration of cutting-edge technologies (like robotics, AI, and IoT) becoming crucial for global competitiveness in the fourth industrial revolution, India's manufacturing sector has undergone a significant paradigm shift due to automation, says **Sougandh K M**.

In today's world, automation has become deeply ingrained in our daily lives, revolutionising various aspects, from mundane tasks like mopping floors to the operation of driverless airplanes. Over the last two decades, there has been a significant paradigm shift in global automation, with the primary objective being to reduce human workload and delegate tasks to machines. This transformation has brought about a wide range of robots and machines capable of performing tasks ranging from simple activities like picking up a pencil to complex undertakings such as constructing underground tunnels.

The roots of automation can be traced back to the Industrial Revolution, which sought to replace manual labour with machines, marking the transition from an agrarian. Labour intensive to a machine-led manufacturing economy worldwide. Initially referred to as mechanisation, the term 'Automation' emerged in 1946 within the automotive industry, describing the increasing use of automated machinery and controls in mechanised manufacturing lines. Coined by D S Harder, an engineering manager at Ford Motor Company, the term has since expanded beyond manufacturing to encompass systems where human labor and intelligence are replaced by mechanical, electrical, or computational action.

As time progressed, automation became synonymous with the mass production of goods in manufacturing factories, distributed through various channels to local stores. The advent of the internet ushered in a new phase for automation, enhancing speed and efficiency. The combination of the internet and automation facilitated easier prediction of outcomes, increased machinery uptime, and streamlined fault detection and error resolution, thereby improving operational efficiency. With continuous technological advancements, automation has extended its reach beyond manufacturing, becoming an integral part of diverse industries.

The emergence of artificial intelligence (AI) in recent years has further expanded the scope of automation,

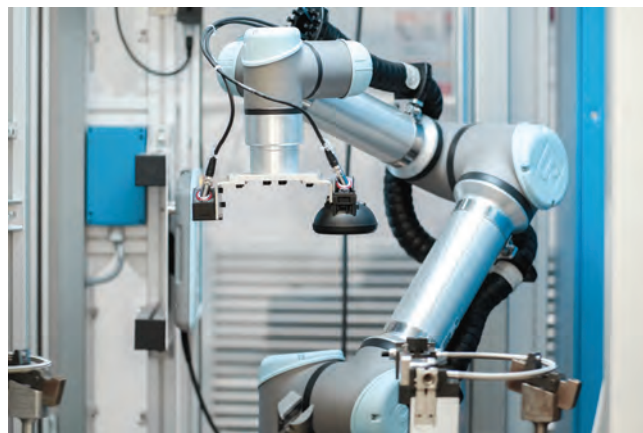


Image courtesy: Universal Robots

integrating it into everyday processes across various sectors, including marketing, operations, and software development. According to Markets and Markets, the industrial automation market is projected to reach \$218 billion by 2027, reflecting a Compound Annual Growth Rate (CAGR) of 8.2 per cent from an estimated \$147.9 billion in 2022.

Industry 4.0, or the fourth industrial revolution, is a direct outcome of automation, enhancing business productivity by allowing humans to focus on more value-added tasks while robots handle repetitive and monotonous work. This shift has made businesses more competitive, encouraging the hiring of highly qualified workers.

India's manufacturing sector has undergone a significant paradigm shift due to automation, with the integration of cutting-edge technologies like robotics, AI, and the Internet of Things (IoT) becoming crucial for global competitiveness in the fourth industrial revolution. Automation in India has provided various benefits, including increased productivity, quality, cost-effectiveness, and overall economic development.

**Increased productivity and efficiency:** One of the main advantages of automation in manufacturing is the boost in productivity and efficiency. Automated systems can work round the clock without breaks, ultimately reducing production cycle times. This not only accelerates the manufacturing process but also ensures consistent output quality. The implementation of robotic systems and smart machines optimises resource utilisation, minimises downtime, and enhances overall operational efficiency.

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**The implementation of automation is in line with the objectives of global sustainability, rendering Indian manufacturing more eco-friendly and attracting the interest of global markets and environmentally aware consumers.**

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Automation is certainly a game-changer for the manufacturing industry in India. Due to its revolutionary effects on quality, cost-effectiveness, productivity, and sustainability, Indian manufacturers are now major players on the international scene.

**Quality assurance and precision:** In order to guarantee precision and high-quality products during the manufacturing process, automation is essential. Real-time monitoring and control are made possible by advanced sensors and machine learning algorithms, which reduces the risk of human error. Strict quality standards can be regularly met by automated systems in the production of high-quality goods. This not only helps manufacturers gain more credibility abroad but also establishes them as trustworthy participants in a range of industries.

**Cost reduction and competitiveness:** Automated systems minimise waste, cut labor expenses, and streamline production processes although there may be a significant upfront cost associated with automation technologies. However, there are indisputable long-term cost savings advantages. Additionally, the increased accuracy and efficiency help to lower errors and rework, which further reduces expenses. Consequently, Indian producers can sell goods at reasonable prices on the international market, which helps them stand out from foreign rivals.

**Skilling the workforce for the future:** Automation in manufacturing requires employees with the necessary skills to design, operate, and maintain automated equipment. Upskilling and reskilling the current workforce is essential to utilising automation to its greatest potential. The skills gap can be closed by government initiatives, educational programs, and industry experts' participation, guaranteeing that the Indian workforce is prepared to prosper in an automated manufacturing environment. For instance, Indian government has launched various programs for upskilling of current workforce under its initiative of Skill India or the National Skills Development Mission of India.

**Sustainable manufacturing practices:** In addition to increasing productivity, automation supports environment friendly production techniques. Systems for smart production can reduce waste, maximise energy use, and have very little adverse effect on the environment. The implementation of automation is in line with the

The combination of the internet and automation facilitated easier prediction of outcomes, increased machinery uptime, and streamlined fault detection and error resolution, thereby improving operational efficiency.



Image courtesy: Universal Robots

objectives of global sustainability, rendering Indian manufacturing more eco-friendly and attracting the interest of global markets and environmentally aware consumers.

### Automation: The game-changer

The widespread use of automation in manufacturing is not without difficulties, despite its many benefits. It is necessary to address issues with employment displacement, initial capital investment, and the adaptability of small and medium-sized businesses (SMEs). In order to guarantee inclusive growth and enable a seamless transition to automated production, strategic policies, financial incentives, and support networks are crucial.

Automation is certainly a game-changer for the manufacturing industry in India. Due to its revolutionary effects on quality, cost-effectiveness, productivity, and sustainability, Indian manufacturers are now major players on the international scene. A cooperative effort involving the government, industrial players, and labor is necessary to fully fulfill the potential of automation. India is able to use automation to drive its manufacturing sector into a new phase of growth and competitiveness by implementing the necessary regulations, making the investments in required fields, and prioritising talent development.

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### About the author:



Sougandh K M is the Channel Development Manager of India for Universal Robots, having experience of more than 12 years in sales and marketing. He has expertise in handling diversified sectors such as robotics, technology,

automation, retail and fashion. Over this period, he has mastered control over the South Asian market. His knack in the technology, automation and robotics sectors makes him stand out among all.



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# Green industries: Fusing skills, tech for manufacturing advancements

Integrating green technologies and innovative solutions is critical for India to foster eco-friendly industrial growth while mitigating the perils of climate change.

Manufacturers must act now to secure green talent and catalyse enduring positive change says **Sumit Kumar**.

**W**ith a sizable manufacturing sector accounting for over 15 per cent of India's GDP, our nation is poised to become a dominant force in global manufacturing. However, the environmental footprint of conventional manufacturing processes has ignited an urgent need to embrace sustainable methodologies. Integrating green technologies and innovative solutions is critical for India to foster eco-friendly industrial growth while mitigating the perils of climate change.

## India's manufacturing industry stands at sustainability crossroads

As one of the fastest-growing major economies, India aims to become a global manufacturing stronghold by 2030, with over \$500 billion in annual exports. However, the environmental toll of conventional manufacturing approaches threatens these ambitions. With unabated greenhouse emissions, toxic industrial waste, and dangerous pollution levels, the current trajectory is unsustainable.

India now faces a dilemma: allow manufacturing to flourish at the expense of the environment or catalyse an industrial transformation to protect ecological balance. Tough regulatory actions may curb industrial growth in the short term, but with climate change consequences intensifying, doing business as usual is not an option.

The solution lies in rapidly transitioning to sustainable manufacturing models by harnessing emerging technologies. The good news is that Industry 4.0 innovations like automation, digitisation, and renewables promise cleaner, greener, and smarter production systems. On the other hand, the shortage of qualified workers with next-gen sustainable manufacturing skills remains a barrier.

Bridging the labour skill gap via work-based training programmes and forging ahead with eco-friendly processes powered by cutting-edge technologies offer a pathway for manufacturing to drive economic growth in sync with environmental stewardship.

## The tech-tonic shift: How technology is enabling sustainable manufacturing

Advances in technology are catalysing a sustainability transformation across manufacturing operations. The evolution of smart manufacturing, underpinned by sensors, data analytics, and automation, allows for



optimised utilisation of energy and resources while minimising environmental impacts. Access to real-time operational insights enables predictive maintenance, proactive interventions, and overall streamlined production with radically smaller footprints.

Artificial intelligence (AI) takes eco-friendly manufacturing to the next level by guiding fully autonomous operations for peak efficiency. Machine learning algorithms continually refine operations to reduce carbon emissions, material waste, and water usage to bare minimums. AI-powered manufacturing heralds an era of intelligent, optimised, and near-zero-impact production.

Beyond process optimisation, the proliferation of renewable energy unlocks cleaner and greener manufacturing shopfloors. Solar and wind energy integration diminishes reliance on fossil fuels, while bioenergy, geothermal solutions, and hydrogen-based processes offer viable, sustainable alternatives for energy-intensive operations.

Technology is indeed the driving force spearheading the sustainability makeover, with innovation in AI, automation, digitisation, and renewables promising a manufacturing landscape that operates in harmony with the environment.

## Perceptive prudence: New trends that are anticipated

While sustainability consciousness has grown over the



past decade, recent developments indicate that eco-friendly manufacturing is transitioning from a fringe concept to a mainstream imperative for industries worldwide. Surveys reveal that over 90 per cent of manufacturing businesses are actively engaged in some form of green practice today.

Progressive manufacturers are expanding beyond compliance with emission norms to holistic environmental stewardship programmes covering energy conservation, waste recycling, and sustainable sourcing. With brand reputation and long-term cost savings intrinsic to the green shift, sustainable manufacturing has evolved into a core business strategy rather than just an ancillary process.

India too witnesses a surge in environment, sustainability, and governance (ESG) investments, with funding for solar companies rising dramatically. The government offers subsidies for renewable energy adoption along with tax rebates for energy-efficient facilities.

As stakeholder expectations and industry standards realign around sustainability, manufacturers embracing comprehensive green strategies enjoy distinct competitive advantages. Those lagging risks include regulatory crackdowns, talent drain, and the loss of a social license to operate. The writing on the wall is clear: eco-friendly production is an inescapable imperative and no longer just an option.

### Overcoming key challenges in mainstreaming sustainable manufacturing

Despite the environmental and economic merits of sustainability, significant barriers constrain large-scale adoption across manufacturing value chains. High upfront capital expenditures on upgrades to existing infrastructure or investments in new green facilities pose a major roadblock. Production disruptions during technology or process transitions also hamper the switch.

Additionally, organisational inertia and internal resistance slow down changes, despite top-down directives. Shopfloor workers are accustomed to legacy practices and uncomfortable abandoning old ways.

Another critical challenge lies in the shortage of green technical skills required to implement and operate new-age sustainable technologies. With India targeting net-zero deadlines, the yawning gap between current competencies and those demanded by future green jobs is alarming. Bridging this through rapid nationwide reskilling and upskilling is vital.

### Sustainable manufacturing's new ally

Overcoming the sustainability skills deficit hinges on large-scale training programmes to create a talent pool ready for green manufacturing roles. Classroom courses build conceptual foundations, but work-based learning that offers immersive experiences in real-world operations is pivotal. Apprenticeships, on-the-job training, and sandwich courses with dedicated shopfloor components equip trainees with instantly applicable sustainable

manufacturing skills.

With interventions spanning technology, infrastructure, and people, work-based learning addresses the most crucial barrier which are specialised green competencies. It allows organisations to nurture talent aligned with their unique operational contexts while empowering youth with future-ready and industry-relevant skill sets.

Moreover, these initiatives cultivate sustainability thinking across ranks, aligning employees with green objectives. This facilitates the smoother adoption of upgraded systems, technologies, and shopfloor practices.

### Securing a skilled workforce for a sustainable manufacturing future

Work-based learning sits at the epicentre of the talent transformation strategy, which is pivotal to materialising India's sustainable industrial future. With the stakes so high in the race to net-zero timelines, fast-tracking nationwide campaigns to skill, reskill, and upskill millions is imperative. Academia, government, and industry must unite to catalyse programmes, amplify reach, and ensure genuine skill application post-training.

The payoffs of winning the skills battle are manifold. Sustainability initiatives are now possible thanks to the availability of green talent. Smooth technology assimilation and upgraded shopfloor conduct translate into optimised, cleaner, and leaner manufacturing. Energy conservation, recycling, and circular economy practices minimise environmental harm.

Most importantly, inclusive green skill development creates new livelihoods, boosts employability, and expands economic opportunity. Upskilled workforces gain future-proof and recession-proof careers, contributing to local and global sustainability targets.

### A parting take

As India sets its sights on becoming a global manufacturing powerhouse, the parallel priority is establishing an equally towering reputation for green leadership. With stakeholder pressure intensifying alongside climate change impacts, sustainable manufacturing and the workforce transformation it demands have become indispensable. Technology lays the foundations, but ultimately, skilled teams steer the sustainability revolution. Manufacturers must act now to secure green talent and catalyse enduring positive change.

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### About the author



Sumit Kumar is the Chief Business Officer of TeamLease Degree Apprenticeship (India's first and largest degree apprenticeship programme). He has work experience of over 24 years in HR services helping organisations build future ready workforce by leveraging experiential learning; and education/employability sectors.



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# Green engineering: The key to decarbonising India's infra push

The growth of construction equipment industry in India has been accompanied by environmental concerns arising from fuel consumption, emissions, and the ecological impact of construction activities, says **Shalabh Chaturvedi** while explaining the role of green engineering in the construction equipment industry.

India is in the midst of an unprecedented infrastructure push, as it is completely focused on transforming itself from an emerging economy into a developed superpower. Starting from roads and ports to business parks, intra-city transport networks and airports, the country is on its way to have the infrastructure framework ready for the future.

At the same time, the country is gearing up to hit the net-zero mark by 2070. The construction equipment industry in India has witnessed substantial growth in recent years, driven by rapid urbanisation and infrastructure projects. However, this expansion has been accompanied by environmental concerns arising from fuel consumption, emissions, and the ecological impact of construction activities. The country is evolving with experiences with not only its technical assets, but also with its new goal of reduction of greenhouse emissions.

## Contribution of green engineering

Infrastructural developments have often created a negative impact on the environment, starting from pollution to waste generation, deforestation and so on. Notably, these consequences have been taken into consideration as the time went by. When construction equipment comes to the scene, green manufacturing or green engineering has already taken the stage.

Green engineering in the construction industry is gaining prominence as the sector recognises its significant contribution to global carbon emissions. A substantial 37 per cent of worldwide CO<sub>2</sub> emissions stem from construction, with 16 per cent attributed to embodied carbon from material sourcing, manufacturing, logistics, and construction activities. Emissions in the construction equipment value chain are distributed across Scope 1 (Direct emission: 3 per cent to 5 per cent), Scope 2 (Indirect emission: 3 per cent to 5 per cent), and notably, Scope 3 (95 per cent to 97 per cent), emphasising the industry's broader responsibility. Over 80 per cent of emissions occur during the operational lifespan of these products, urging a commitment to innovative engineering solutions.

The Indian construction equipment sector is embracing green engineering practices, integrating renewable energy solutions like solar and wind into manufacturing operations and supply chains. Investments in solar panels and green infrastructure aim to reduce carbon footprints



and align growth with India's renewable energy targets. The government's initiatives, like Electricity Rules 2022 and the Indian carbon market, provide regulatory frameworks and incentives for sustainability. Waste co-processing is also a focus, underscoring the commitment to minimising the environmental impact and fostering a circular economy in the construction sector.

## Green engineering: Adoption and benefits

Green engineering is crucial for India's construction equipment sector to contribute sustainably to infrastructure development. It minimises environmental footprint through lightweight materials and modular components, boosting efficiency and reducing fuel consumption. Adapting green fuels holds the promise of ushering in a transformative era for our global energy landscape. By shifting away from traditional fossil fuels to sustainable alternatives, we can significantly mitigate the impact of climate change. Green fuels, derived from renewable sources, contribute to a substantial reduction in greenhouse gas emissions, fostering a cleaner and healthier environment. Beyond environmental benefits, embracing these fuels also bolsters energy security, promotes technological innovation, and creates employment opportunities, driving economic growth. These transitions not only aligns with global efforts to combat climate change but also position societies for long-term sustainability, resilience, and more diversified and secure energy future. This fosters a sustainable, inclusive society, job creation, and environmental stewardship for future generations.



## Use of alternative fuel

Various construction equipment manufacturers, are piloting the use of machinery with alternative fuel such as methane or hydrogen, which aligns to the submission of the country. Hybridisation and electrification are other solutions that can help reduce emissions and can prove to be a game-changer for the industry. Electrically powered machinery and hybrid systems will not only reduce dependence on fossil fuels but also lead to quieter and eco-friendlier construction sites.

Exploring cleaner energy sources, in addition to cleaning up the sector's footprint, can also unleash innovation. While full-scale electrification is becoming more feasible for passenger cars and intra-city public transportation, it may still be some years away for the construction equipment industry. Hybridisation is also at a developing stage. Implementing advanced solutions and alternative technologies can enable construction equipment manufacturers to stay ahead of the curve in the global construction equipment market.

## Electricity as an alternative fuel

Electric vehicles (EVs) are gaining prominence in transportation, offering cleaner, more sustainable alternatives, reducing air pollution and reliance on fossil fuels. This alternate can be applied to diverse industries, including residential and commercial buildings, industrial

processes, and even in construction sector.

In terms of economic benefits, electrification can contribute to job creation and economic growth. The development, manufacturing, and maintenance of electric vehicles and related infrastructure generate employment opportunities. Unlike fossil fuels, electricity can be generated from a variety of sources, including renewables, reducing dependence on geopolitically sensitive regions for energy supply. Governments and businesses investing in electrification technologies position themselves at the forefront of a rapidly evolving industry, fostering innovation and competitiveness. Moreover, electrification enhances energy security by diversifying the energy mix.

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## About the Author



Shalabh Chaturvedi is the Managing Director for India & SAARC region for CASE Construction - India's premium manufacturer of Construction Equipment and a wholly-owned subsidiary of CNH Industrial NV. Having spent more than 15 years in the construction equipment industry,

Chaturvedi is a dynamic and visionary leader with a proven track record of driving business growth and operational excellence. In his role, he is creating synergy between various divisions to create strategies that can connect with the new-age consumer.



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## NEWS SNIPPET

# Pepperl+Fuchs expands portfolio of VisuNet FLX series operator and monitoring workstations

The Mannheim-based family company Pepperl+Fuchs is expanding its portfolio of VisuNet FLX series operator and monitoring workstations with a version for outdoor use and use in an extended temperature range from -20 °C to +50 °C. The new aluminum housing not only ensures an optimal heat sink, but also offers exceptional resistance to more demanding outdoor conditions. The low weight ensures easy installation via a wide range of mounting options.

The VisuNet FLX series has an optically bonded display to ensure perfect readability in direct sunlight. In addition, various shading elements can be selected as required. The integration of an optional RFID reader simplifies user authentication and contributes to security in industrial environments.

## High performance and adaptability

The VisuNet FLX HMI platform offers an impressive variety of configuration options. The series is available as a complete HMI system with aluminum or stainless steel



The VisuNet FLX can be configured both as a PC, remote monitor (based on thin client technology), and as a direct monitor.

housing, as a panel mounting, or as a box PC, each with display sizes of 15.6, 19, or 21.5 inches (39.6 cm, 48.3 cm, or 54.6 cm). Depending on the requirements, the computing unit can be configured as a remote monitor, a powerful PC with i5 processing unit and up to 16 GB RAM, or as a direct monitor.

The remote monitors are equipped with the latest VisuNet RM Shell 6 firmware generation for thin client solutions and are

based on Windows® 10 IoT Enterprise LTSC 2021. It enables access to the virtualised process control system and the manufacturing execution system (MES). The firmware supports all common remote protocols, including Microsoft RDP and VNC, and web browsers such as Google Chrome and Microsoft Edge. With the additional VisuNet Control Center software, all RM Shell-based thin client devices can be centrally managed, updated, and controlled. This saves time-consuming running and travel routes to the individual devices.

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# “SKF enables its customers to move towards a circular economy”

With climate change becoming one of the most pertinent issues of the present times, the demand for sustainably manufactured products is expected to grow. Manufacturers that are early adopters of sustainable manufacturing practices will be well-positioned to meet this growing demand and achieve a competitive advantage, states **Manish Bhatnagar**, Managing Director, SKF India Ltd, in this interview with Rakesh Rao. With nearly three decades of experience in strategic leadership and business operations, he brings a strong global perspective along with local customer-centricity to drive execution and results. Here, Manish Bhatnagar elaborates on the criticality of sustainability in bringing about positive changes in the economy, ecology and society.

## **How is the manufacturing sector responding to the need to mitigate the effects of climate change?**

The world is rapidly changing, and environmental and climate change mitigation are critical to the long-term survival of our planet. As such, there is a growing demand for sustainable solutions across all industries. The shift towards sustainability has created a demand for environmentally friendly, energy-efficient, and socially responsible products and services. Companies in various industries are adopting sustainable practices, including promoting the use of renewable energy sources, reducing waste and emissions, and incorporating environmentally friendly materials. SKF is committed to decarbonising its operations and helping customers achieve their sustainability goals and we will continue to make significant progress with our science-based net-zero targets. We strongly believe that the future of manufacturing will be defined not just by efficiency and productivity, but also by its ability to create a positive impact on the planet and its people.

## **What steps are being taken by SKF to achieve the objectives of sustainability?**

Climate change is one of the most pertinent issues of our times. Our green manufacturing initiative focusses on reducing GHG emissions, conserving natural resources, and eliminating/reducing hazardous waste generation. For Instance, SKF India manufacturing sites reduced their water consumption by 10 per cent over the last year and are committed to water conservation and ensuring zero water discharge. Our sites are also proactively working on reduction in paper and plastic consumption through various packaging optimisation projects in collaboration



with suppliers and customers. Major initiative was launched for the segregation of plastic and paper wastes at all manufacturing locations and offices to improve waste recycling. Last year, SKF India saved approximately 2,800 trees through the paper packaging optimisation project.

We all need to move towards a clean, responsible, net-zero, fully circular society. Roughly 20 per cent of global energy goes to overcoming friction. Together with the industry and academia we work to drive the needed changes in society by creating reliable rotation and reducing friction. Our largest contribution lies in providing clean technology solutions for the industrial transformation, and in developing more and more of our

products to become lighter, more efficient, longer lasting, repairable, and, ultimately, recyclable. This in turn helps our customers reach their goals for sustainability and growth.

Through all these and many more initiatives, SKF will continue to implement sustainability initiatives to minimise the environmental impact while contributing to the long-term business goals and social responsibility.

## **How is SKF helping its customers to achieve their Net Zero emission targets?**

We want to integrate sustainability into our business – in our products, services, and customer solutions. We enable our customers to move towards a circular economy by providing products, services and solutions that help improve process efficiency, reduce friction and waste, extend service life, and achieve other sustainability benefits.

For example, through our remanufacturing capabilities, we help customers refurbish end-of-life



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**Through our remanufacturing capabilities, we help customers refurbish end-of-life bearings, thereby reducing consumption, industrial waste, and total cost of ownership. Remanufacturing extends the service life of bearings.**

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bearings, thereby reducing consumption, industrial waste, and total cost of ownership. Remanufacturing extends the service life of bearings. It reduces environmental impact, increases asset reliability, and cuts costs. Another example is our revolutionary RecondOil box that helps customers reuse industrial oil, bringing significant financial, environmental and performance benefits. Our CO<sub>2</sub> calculation dashboard helps customers understand carbon emissions during bearing manufacturing and life cycle and plan their decarbonisation roadmap accordingly.

Our strength lies in our ability to continuously develop new technologies. These technologies are utilised to create value-adding solutions that provide competitive advantages to our customers while contributing to the goal of building a sustainable society.

### **How can green engineering/manufacturing (sustainability) practices help India in gaining competitive advantage in the global marketplace?**

Sustainability is at the forefront, emphasizing economic, ecological, and societal perspectives. As businesses become more aware of the importance of sustainability, the demand for sustainably manufactured products is expected to grow. Manufacturers that are early adopters of sustainable manufacturing practices will be well-positioned to meet this growing demand and achieve a competitive advantage. For manufacturers, this means embracing new and emerging technologies to ensure more efficient processes, and data-driven decision-making. Sustainability becomes a win-win for businesses and society to reduce the environmental impact as well as and reduce costs.

### **How important is the role of modern technologies & automation for improving Indian manufacturers' competitiveness and green manufacturing index?**

Several innovations such as IoT for real-time monitoring and predictive maintenance, AI and machine learning for analytics and optimisation, and robotics for

precision and speed, are reshaping manufacturing sector and it is crucial for Indian manufacturers to adopt these modern technologies. Technologies such as 3D printing reduces waste and expedites product development. Digital twins offer real-time simulations, while AR and VR aid training and maintenance.

Supply chain digitization enhances transparency, sustainable energy sources cut costs, and blockchain improves traceability. Edge computing enables real-time decision-making, collaborative platforms, predictive analytics, and lean manufacturing. These innovations, when strategically integrated, empower manufacturers to enhance productivity, cut costs, improve product quality, and swiftly adapt to market changes, enhancing competitiveness.

### **How is the Indian manufacturing sector faring at present? What is your expectation for FY24 & FY25?**

Despite global challenges, India has achieved an impressive growth supported by local consumption and a favourable policy environment, as well as a stable political environment. Manufacturing and infrastructure-led industries are significant contributors to the current growth in GDP. India is bound to get impacted by slower global growth, however, domestic demand-led growth will provide India with the necessary momentum to post reasonably strong growth this year. We believe India will need a strong rebound in investments to attain sustainable growth.

Also, manufacturers will get even more innovative and collaborative in their approach to reduce carbon footprint, increase efficiency, and circularity this year and next. Companies will work closely with suppliers, distributors, and consumers to create a truly circular ecosystem including joint responsibility for product lifecycle management and ensuring responsible sourcing and end-of-life solutions.

### **What kinds of growth opportunities are you looking to tap in the coming years?**

We have an outstanding position in our industry. Our customers appreciate our consistent and excellent quality, the performance of our products and services, our broad customer offering and our global presence and wide reach. Based on our strategy of driving intelligent and clean growth, we have embarked on an exciting journey to become a more focused, innovative and profitable industrial player. We are accelerating the development of new technologies, such as solutions for electric vehicles, recycling and critical sectors. Moreover, to serve customers better and capture future growth, we are digitalizing the value chain and regionalizing the supply chain. We will continue to focus on high growth areas and sectors where our technological edge will support customers striving for a sustainable future.



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**We strongly believe that the future of manufacturing will be defined not just by efficiency and productivity, but also by its ability to create a positive impact on the planet and its people.**

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# “Godrej & Boyce’s dedication to sustainability is deep-rooted”

Godrej & Boyce Manufacturing Co Ltd offers various engineering solutions for critical industries like aerospace, defence, clean energy, railways, automotive, etc. Ever since it was established in 1897, environment stewardship has been a cornerstone of the company’s business practices. In this interview with Rakesh Rao, **Zurvan Marolia**, Senior Vice President & Head - Manufacturing Council, Godrej & Boyce Manufacturing Co Ltd, elaborates on the importance of adopting eco-friendly measures by manufacturers to help India achieve its sustainability goals.

## **What measures should be taken by Indian manufacturers to mitigate the impact of climate change?**

The contribution of manufacturing to the GDP has been increasing and is an area of focus for the government. The sector, which consumes about 40 per cent of energy, contributes to greenhouse gases emission. Hence, manufacturers have to take steps to reduce their carbon footprint to achieve India’s sustainability goals which we have committed to at the global platform. This can be achieved by minimising waste, reducing resource consumption, improving the yield of final products, maximising energy efficiency, increasing the use of renewable energy, adopting less carbon-intensive processes, reducing water consumption, etc. In short, 3 “Rs” - reduce, reuse and recycle – have to be at the centre of the strategy to combat climate change.

## **What steps are being taken by your company to achieve sustainability goals?**

Godrej & Boyce is 125-year-old company and environment stewardship has been part of our DNA since birth. The company is a signatory to the global EP100 initiative (which brings together a group of energy-smart companies that have committed to double their energy productivity). Under this, we have taken certain targets such as maintaining or improving water positivity, zero waste to landfill, reducing carbon intensity by 60 per cent, generating 50 per cent (from present 33 per cent) of our revenue from green products, making our buildings (factories and offices) green, promoting a circular economy, etc. In the last decade, Godrej & Boyce has invested over Rs 500 crore towards developing good & green products.

Our dedication to sustainability is deeply rooted in our organisational ethos, emanating from internal practices to



product offerings. Internally, we prioritise eco-friendly measures, such as using efficient processes, waste heat recovery systems, electric forklift in operations, etc. This internal commitment lays the foundation for broader sustainability initiatives.

In product development, our focus is on designing and manufacturing items with a diminished carbon footprint. An exemplary instance is the introduction of refrigerators devoid of CFC, HCFC and HFC, ensuring zero ozone depletion potential and minimal warming. This conscious product design contributes significantly to a sustainable future, considering the widespread use of refrigerators in both industrial and commercial settings.

Collaboration with our vendor base is pivotal to our sustainability journey, particularly through initiatives like “Beyond Sourcing.” Engaging with a vendor community, predominantly comprised of SMEs, involves raising awareness about environmental sensitivities and aiding vendors in adopting sustainable practices, fostering positive change throughout the supply chain.

Thus, our comprehensive strategy spans internal operational practices, eco-friendly product development, supply chain optimisation, vendor collaboration, and providing environmentally conscious solutions to customers. This multifaceted approach underscores our commitment to environmental responsibility, contributing to a more sustainable and resilient future for all stakeholders involved.

## **Could you please elaborate on steps taken by your company to make SMEs stronger?**

The “Beyond Sourcing” initiative represents our commitment to supporting SMEs beyond mere transactional engagements. Recognising the importance of empowering SMEs, the program aims to enhance their capabilities, aligning them with evolving business



requirements. Through a structured cluster program, we provide valuable insights, initially focusing on management fundamentals and hygiene factors, and gradually delving into manufacturing, quality, and productivity aspects.

Capacity and capability development are paramount. Hence, we ensure that SMEs synchronise with our business needs, thereby reducing wasteful practices and progressing along the sustainability continuum. Financial accessibility was facilitated through specially designed schemes, fostering smoother technology adoption.

Our focus is to integrate SMEs into the supply chain effectively. We facilitate their understanding of market dynamics, encouraging a sense of ownership. The introduction of green clusters marked a significant step towards sustainability. Encouraging SMEs to obtain quality standard certifications became a priority, and achieving a 25 per cent reduction in power consumption emerged as a tangible testament that embracing sustainability need not be a financial burden but a self-rewarding endeavour.

Advocacy efforts, including government outreach through platforms like the Confederation of Indian Industry (CII), are aimed at amplifying the voice of SMEs, emphasising how they could be better supported. Knowledge-sharing sessions and active involvement in the entire product design process were instrumental in fostering collaboration. This approach ensured that SMEs became integral contributors to the entire value chain, aligning seamlessly with our overarching sustainability goals.

### **Is it imperative for Indian manufacturers to adopt modern technologies & automation?**

Certainly, the integration of modern technologies such as automation, IoT, and digitalisation has ushered in a transformative era, particularly in the pursuit of sustainability within our operations. Automation, for instance, plays a pivotal role in enhancing operational efficiency, leading to reduced waste and improved productivity. By optimising processes, we not only streamline operations but also contribute to sustainability by minimising resource utilisation.

IoT provides us with unprecedented visibility into our processes, allowing for data-driven insights that guide improvements. This visibility is crucial for quality assurance, enabling us to detect areas for enhancement and ensure a leaner design. The adoption of IoT, especially within the framework of Industry 4.0, has facilitated faster adaptation to these technologies. The voluminous data generated aids in more precise decision-making, fostering a culture of continuous improvement.

Moreover, modern technologies enable self-diagnosis and correction in machines, minimising non-value-added elements in the production process. The seamless transfer of designs from the drawing board to the shop floor reduces the potential for errors, contributing to more efficient operations. In terms of the supply chain, these technologies ensure that the voice of the customer is accurately transmitted to the shop floor, reducing

processing time and optimising resource utilisation.

Quick prototyping and 3D printing have emerged as invaluable tools, offering cleaner processes and sustainable alternatives. An exemplary illustration is the construction of a 500-sq ft office by our team, assembled in just one and a half days in Khalapur unit, showcasing the efficiency and sustainability achieved through modern technologies.

In essence, these advancements in technology are not just about operational efficiency but also contribute significantly to a cleaner, greener, and more sustainable approach. They enable us to innovate in processes as well as products; thus, enhancing performance, utility, and durability while simultaneously reducing costs and environmental impact. The adoption of recycled materials in packaging and logistics optimisation further demonstrates our commitment to sustainability, ensuring that value addition is achieved with lower resource consumption and waste creation.

### **How do you see the performance of the Indian manufacturing sector? What is your expectation for FY24 & FY25?**

The performance of the Indian manufacturing sector is poised for significant growth, aligning with the trajectory of the overall economy. With the Indian economy set to surpass the \$ 4 trillion mark, possibly by FY 25, and aiming for the \$ 5 trillion milestone by FY 27, the nation stands as the fastest-growing major economy globally. The emphasis on diversification, particularly in the context of the "China Plus One" strategy, holds immense potential. By 2030, India could contribute over \$ 500 billion to the global economy through enhanced participation in global trade, according to the Economic Survey reports.

The manufacturing landscape in 2024 is anticipated to be marked by the convergence of technologies, operational efficiencies, and a nurturing environment for innovation.

In the context of green manufacturing, India holds global competitive significance. The increasing global demand for sustainable products, coupled with the establishment of international standards, positions India as a key player in meeting these requirements. Sustainability not only aligns with global expectations but also makes economic sense, offering cost efficiency through resource optimisation, quality assurance systems, and enhancing brand image on the global stage.

Moreover, India's access to green markets and government initiatives and incentives should further propel the country towards becoming a global manufacturing hub with a strong emphasis on sustainability. The adoption of green practices not only contributes to environmental stewardship but also positions India favourably in the global marketplace, demonstrating a commitment to both economic and ecological sustainability.



# “Manufacturing sector is experiencing a paradigm shift”

...says **Ravichandran Purushothaman**, President, Danfoss India, as climate change gains traction globally. With the manufacturing sector also moving towards a circular economy, it is emphasizing the reuse, recycling, and repurposing of materials. In this interview with Rakesh Rao, Ravichandran Purushothaman highlights on various initiatives taken by Danfoss to promote sustainability and to help its customers achieve their Net Zero emission goals.

## **Given the global turmoil, how do you see the performance of the Indian manufacturing sector in 2023? What is your expectation for 2024?**

In 2023, the Indian manufacturing sector faced both challenges and opportunities amidst the global turmoil. The sector demonstrated resilience by adapting to evolving market dynamics and leveraging technological advancements. Despite disruptions, we witnessed a notable shift towards sustainable practices and a growing emphasis on green engineering within the industry.

Looking ahead to 2024, we anticipate a continued momentum towards sustainability in the Indian manufacturing sector. As businesses recognise the importance of environmental responsibility, we expect an increased integration of green engineering practices in manufacturing processes. The adoption of energy-efficient technologies, waste reduction measures, and eco-friendly production methods will likely become more prevalent, fostering a positive impact on both the industry and the environment.

Our expectations for 2024 align with the industry's commitment to achieving a more sustainable and eco-conscious future. Danfoss India remains dedicated to providing innovative solutions that contribute to the green transformation of the manufacturing sector, supporting businesses in their journey towards a more sustainable and resilient future.

## **How is the manufacturing landscape changing with climate change gaining traction?**

With climate change gaining traction globally, the manufacturing sector is experiencing a significant paradigm shift. There is a growing awareness within the industry about the need for sustainable and environmentally responsible practices. Several key changes are being witnessed.

Manufacturers are increasingly embracing green



technologies to reduce their carbon footprint. This includes the integration of energy-efficient equipment, renewable energy sources, and the implementation of smart and sustainable manufacturing processes.

Governments and regulatory bodies are imposing stricter environmental regulations, encouraging manufacturers to adhere to higher standards of sustainability. This has led to a revaluation of existing practices and a greater focus on eco-friendly solutions to meet compliance requirements.

The manufacturing sector is moving towards a circular economy, emphasizing the reuse, recycling, and repurposing of materials. This approach minimises waste generation and promotes a more sustainable

lifecycle for products.

At Danfoss India, we recognize the significance of these changes and are committed to playing a pivotal role in driving the adoption of green engineering in the manufacturing sector. The company aspires to be the preferred decarbonisation partner for India, particularly focusing on industrial decarbonisation. With its Chennai campus already above 90 per cent carbon neutralized, Danfoss aims to share its expertise to accelerate India's carbon neutrality journey further. Our focus on energy-efficient solutions and sustainable technologies aligns with the industry's evolving needs, empowering businesses to thrive in a climate-conscious era.

## **To achieve sustainability goals, what steps are being taken by Danfoss?**

Danfoss India has implemented various initiatives to promote sustainability. These initiatives involve the use of renewable energy, energy-efficient technologies, and sustainable product designs. The company also prioritises waste reduction and water conservation measures. Furthermore, Danfoss India supports sustainability programs and collaborates with other organisations to advance its sustainability goals.



**Renewable energy:** Danfoss India is at the forefront of sustainable practices, exemplified by our strategic focus on renewable energy integration into operations. Committed to reducing our carbon footprint and environmental impact, we have implemented solar, and other renewable energy sources to power our operations. Through substantial investments in on-site renewable energy generation, we are actively reducing reliance on traditional energy sources. This comprehensive approach aligns with our commitment to environmental stewardship, ensuring that our operations not only meet high efficiency standards but also contribute to a cleaner and more sustainable energy landscape.

**Energy-efficient technologies:** We have implemented a robust strategy to enhance energy efficiency and minimise wastage across its operations. Central to this initiative is the incorporation of cutting-edge energy-efficient technologies, including HVAC systems, motors, and drives, to optimise overall energy consumption. In addition, the company has embraced smart building technologies that enable efficient energy management and real-time monitoring of usage. This comprehensive approach not only underscores our commitment to sustainable practices but also ensures that our facilities operate with the utmost efficiency, reducing energy consumption and contributing to a more environmentally responsible business model.

**Sustainable product designs:** Danfoss India has been emphasizing the development of sustainable product designs, ensuring that their products are environment friendly throughout their lifecycle. The product portfolio includes: AC drives (that offer optimum process control and energy efficiency for a wide variety of electric-motor driven applications), commercial compressors (which includes scroll, centrifugal and reciprocating compressors, condensing units and inverter solutions), industrial components and solutions (for monitoring and control of pressure, temperature and fluid control), and silicon power modules and stacks (which are designed to meet the exact customer requirements).

Our products cater to a wide range of industries that seek to employ energy efficient technologies that helps them reduce their monetary and environmental costs with increased operational efficiency. These include HVAC, refrigeration, food and beverage, marine and offshore, water and waste water management, lifts and escalators, mining and minerals, cranes and hoists and chemical industries.

Our commitment to sustainability goes beyond compliance; it is a fundamental aspect of our corporate identity. By prioritising these initiatives across various facets of our business, we aim to contribute positively to the environment while delivering value to our customers and stakeholders.

### **How is Danfoss helping its customers in their journey towards Net Zero emission?**

Danfoss India is dedicated to supporting customers in their journey towards achieving Net Zero emission targets,

**Indian manufacturers are embracing modern technologies such as digitalization, robots, AI, and 3D printing, to enhance competitiveness and promote green manufacturing.**

aligning with Prime Minister Narendra Modi's 2030 goals. The company's latest initiative, the Decarbonization Centre for commercial buildings in Chennai, India, offers a user-centric approach to reducing a building's carbon footprint.

The center, located within the LEED Platinum-rated Danfoss Oragadam campus, showcases Danfoss Climate Solutions and Danfoss Power Electronics and Drives, showcasing how their technologies work together on an IoT platform to optimize energy usage in commercial buildings.

Danfoss also integrates its solutions aimed at decarbonisation to assist customers in making informed choices. The company applies a three-step approach to decarbonise its global operations, focusing on reducing, reusing, and reusing resources. The Decarbonisation Centre is open to visitors worldwide, demonstrating Danfoss' commitment to collaboration and knowledge-sharing on the path to a sustainable, net zero-emission future.

### **How can adoption of modern technologies and automation help Indian manufacturers to improve their green manufacturing capabilities?**

Indian manufacturers are embracing modern technologies and automation, such as digitalization, robots, AI, and 3D printing, to enhance competitiveness and promote green manufacturing. These technologies contribute to sustainability by optimising resource usage, reducing carbon footprint, and operating environmentally. They also improve operational efficiency by streamlining workflows, reducing downtime, and eliminating redundancies. AI and machine learning algorithms enable predictive maintenance, minimising energy wastage and unplanned shutdowns.

Automation ensures precision and consistency in processes, resulting in high-quality products and reduced resource wastage. These technologies also enhance global competitiveness by allowing countries to meet changing market demands and deliver innovative products. 3D printing and other advanced manufacturing technologies enable agile and customizable production, reducing lead times, enabling quick prototyping, and facilitating complex component production with minimal waste.

By embracing these advancements, Indian manufacturers can drive innovation, improve their bottom line, and contribute to a greener and more resilient future for the industry and the nation.



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# “We are committed to achieving our carbon neutrality target by 2040”

Growing awareness about environment and stricter regulations are driving companies to focus on energy efficiency, resource conservation, and emission reduction. As sustainability becomes a key differentiator for businesses, companies adopting these practices will be better positioned to attract investments, win new customers, and access new markets, believes **Seshan Iyer**, President - Industrial Business, Schaeffler India Ltd. In this interview with Rakesh Rao, Seshan Iyer, who has over 29 years of rich experience with various organisations in the industrial business domain, explains the importance of green engineering & manufacturing practices for India to gain competitive edge in the global marketplace.

## **What changes are you witnessing in the manufacturing sector with climate change gaining traction?**

The manufacturing sector is experiencing a profound shift due to climate change. Growing awareness and stricter regulations are driving a focus on energy efficiency, resource conservation, and emission reduction. We see customers increasingly demanding sustainable solutions while investors prioritise companies with strong environmental, social, and governance (ESG) practices. This is leading to innovations in renewable energy integration, circular economy principles, and the adoption of cleaner production technologies.



**R&D:** We invest heavily in R&D to drive innovation and accelerate the transition to a greener future. Our research focuses on employing advanced surface technologies and highly engineered sealing technologies that offer superior solutions with higher dynamic load ratings, higher speeds, and minimal contaminant ingress, resulting in superior performance and lower energy and lubricant consumption. We work closely with OEMs in the wind and solar energy space.

**Manufacturing:** We continuously adopt and employ new technologies in manufacturing processes through lean manufacturing practices, digitalization, and renewable energy integration.

## **What steps are being taken by your company to achieve the objectives of sustainability?**

Sustainability is at the core of Schaeffler India's strategy. We are committed to achieving our ambitious carbon neutrality target by 2040. This commitment spans our entire value chain:

**Product development:** Our Gen-C and X-Life products offer lower friction and are energy-efficient, providing extended life and lower energy consumption for customers. Our lubrication products are specially formulated for superior performance and extended operations, increasing the mean time between relubrication and thereby reducing the consumption of lubricants. For example, our E-mobility solutions for electric vehicles help automotive companies design and manufacture electric vehicles, contributing to lower emissions in the transportation sector. Schaeffler Lifetime Solutions offers a wide gamut of online condition monitoring solutions that help customers understand and predict the failures of rotating machinery, thereby reducing frictional losses before failure.

Our manufacturing sites implement circular economy principles, such as recycling and reusing materials, to minimise waste. The manufacturing machines at our plants have implemented Schaeffler Optime and Prolink Solutions for condition monitoring of rotating machinery to support sustainability goals. Our refurbishment/remanufacturing facility in Jamshedpur offers customers a wide gamut of refurbishment/remanufacturing solutions, helping them extract the maximum life out of a bearing, thereby supporting overall sustainability goals and reducing the plant's carbon footprint over the long term.

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**Schaeffler India supports customers in achieving their Net Zero emission targets by providing sustainable products, solutions, and expertise. We offer a wide range of energy-efficient products and services that help them reduce their energy consumption and carbon footprint.**

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**Modern technologies (like digitalization, robots, AI, and 3D printing) impact manufacturing in every aspect and can enhance efficiency, optimise processes, and reduce waste and the carbon footprint.**

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**Supply chain/logistics:** We collaborate with our suppliers and logistics partners to optimise transportation routes and reduce emissions throughout our supply chain. We are also exploring the use of sustainable packaging materials and alternative fuels for transportation.

**Waste management:** We are committed to minimising waste generation and maximising recycling. We have implemented comprehensive waste management programs at our plants and actively partner with recycling companies to ensure responsible disposal of waste materials.

**Overall business:** We have integrated sustainability into our core business strategy and decision-making processes. We measure and track our progress towards our sustainability goals regularly and transparently.

### **How is Schaeffler assisting its customers in their path to Net Zero emission?**

Schaeffler India supports customers in achieving their Net Zero emission targets by providing sustainable products, solutions, and expertise. We offer a wide range of energy-efficient products and services that help them reduce their energy consumption and carbon footprint. We also work closely with them to optimise their processes and implement sustainable manufacturing practices. Additionally, we share our knowledge and expertise through training programs and workshops to assist them on their sustainability journey. Remanufacturing of bearings and deployment of roll-shop maintenance support at steel plants are a few examples.

### **How important are “green engineering/manufacturing” practices for India to gain competitive advantage in the global marketplace?**

Green engineering and manufacturing practices are critical for India to gain a competitive advantage in the global marketplace. As sustainability becomes a key differentiator for businesses, companies adopting these practices will be better positioned to attract investments, win new customers, and access new markets. Additionally, these practices can lead to cost savings through reduced

energy consumption and waste generation. The Indian government's recent focus on promoting green manufacturing provides further impetus for companies to adopt these practices.

### **Why is it imperative for Indian manufacturers to adopt modern technologies & automation for green manufacturing?**

Modern technologies like digitalization, robots, AI, and 3D printing are essential for improving competitiveness and achieving green manufacturing in India. These technologies impact manufacturing in every aspect and can enhance efficiency, optimise processes, and reduce waste and the carbon footprint. For example, digitalization can enable real-time monitoring and control of production processes, leading to reduced energy consumption and improved resource utilization. Robots can automate repetitive tasks, freeing up human workers for higher-value activities and reducing safety risks.

AI can optimise production planning and maintenance schedules, further enhancing efficiency. 3D printing has a lower impact on the environment than traditional technologies, reduces waste and carbon emissions, and enables the creation of lightweight and complex components, reducing material usage and waste.

### **How do you view the performance of the Indian manufacturing sector at present? What is your expectation for FY24 & FY25?**

The Indian manufacturing sector is facing headwinds due to the global economic slowdown and geopolitical uncertainties. However, the sector has shown resilience in the past and is expected to bounce back in the coming years. Some of the important aspects that will support the growth of the manufacturing sector include the government's focus on investing heavily in infrastructure development that will kickstart major core industries, boosting domestic manufacturing through initiatives like "Make in India" and PLI schemes, expected to provide further impetus to the sector. We at Schaeffler India are well-positioned to meet the market demand as we move forward.

### **How do you plan to scale up your business “sustainably”? What kinds of growth opportunities are you looking to tap in the coming years?**

We plan to scale our business sustainably by focusing on organic growth and expanding into new markets and segments. We will continue to invest in R&D and innovation to develop new sustainable products and solutions. We will also leverage our global expertise and network to collaborate with partners and customers to drive sustainable growth. Manufacturing expansion plans and localisation of products will also be of key importance as we move forward.

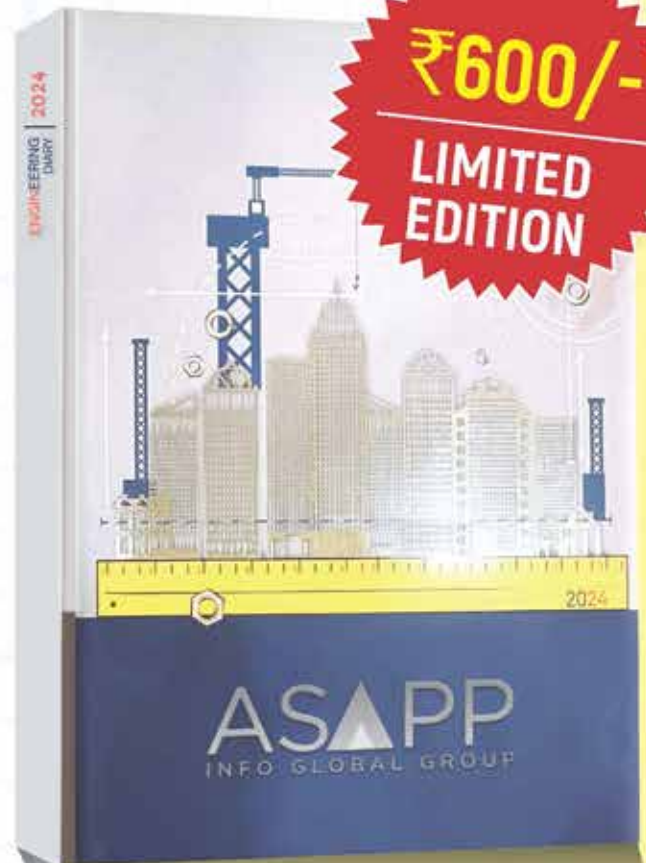




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# “At Dana, sustainability is a guiding vision and not just a goal”

Dana, a leading global provider of mobile drivetrain and motion solutions, has been supporting the growth of its customers in India's light vehicle, commercial vehicle and off-highway segments for more than 60 years. By delivering cutting-edge clean-energy technologies, Dana actively assist its customers in achieving their sustainability goals, says **Gajanan Gandhe**, Country Head and Vice President of Dana India, who was recently bestowed with IIT-Bombay's Distinguished Service Award in recognition of his outstanding achievements. In this interview with Rakesh Rao, Gajanan Gandhe explains how the auto component manufacturer is helping auto makers in achieving their Net Zero goals.

## **How is the auto and auto component industry adjusting to the requirements to mitigate effects of climate change?**

Climate change awareness is prompting the auto industry to shift towards eco-friendly practices. Electric and hybrid vehicles are gaining prominence, emphasising a reduction in carbon emissions. Additionally, there's a growing focus on lightweight materials and sustainable manufacturing methods to minimise environmental impact.

## **What steps are being taken by Dana to achieve the objectives of sustainability?**

At Dana, we are deeply committed to sustainability across all facets of our operations. Recently recognised as one of the '2023 World's Most Ethical Companies' by Ethisphere, we are proud to be among the select few honorees in the mobility industry.

In alignment with global efforts to combat climate change, we have set ambitious goals, aiming to achieve net zero by 2040. Our commitment extends to a more than 75 per cent reduction in Scope 1 and 2 greenhouse gas emissions by 2030, reinforcing our dedication to environmental responsibility.

Our proactive stance towards a zero-emissions future has positioned us as a first-mover in electrification. We strategically invest in technical competence, producing components for complete e-Propulsion systems in-house. A significant portion of our new business comes from driving innovation in next-generation clean-energy technologies, reflecting our commitment to advancing sustainability.

Joining the Science Based Target initiative (SBTi), a global 'gold standard' organisation, validates our ambitious, science-based emissions reduction targets. In



2022, SBTi validated our climate commitments, and we continue to work closely with member organizations such as Carbon Disclosure Project, United Nations Global Compact, World Resources Institute, and Worldwide Fund for Nature to drive sustainable best practices.

At Dana, sustainability is not just a goal; it's a guiding vision that powers our industry leadership and shapes our contributions to a zero-carbon economy. We operate near our customers all around the world, our global footprint shortens outbound delivery times, reduces the need for shipping, and enhances supply chain security. Our global team manages and tracks logistics across the entire supply chain. By optimising our supply chain

and the transportation required, we reduce our carbon footprint — and yours.

## **How is Dana helping its customers (the auto makers) to achieve their Net Zero emission targets?**

At Dana, we understand the importance of contributing to our customers' Net Zero emission targets and aligning with their sustainability objectives. Operating near our customers globally, we actively reduce carbon footprints by minimising delivery distances. Our strategic repositioning focuses on supporting our customers' clean energy priorities.

By delivering cutting-edge clean-energy technologies that power vehicles and machines worldwide, we actively assist our customers in achieving their sustainability goals. This not only aligns with their priorities but also contributes to the reduction of our global Scope 3 greenhouse gas emissions.

Dana's extensive global network, consisting of 23 technology centers across 9 countries, plays a crucial role



in fostering innovation in collaboration with our customers. We believe in being close to the source of innovation to better understand and meet our customers' evolving needs.

In addition to ongoing internal stakeholder engagement, we prioritise open communication with external stakeholders. Regular interaction on trending and emerging issues through inquiries, information requests related to our ESG practices, and periodic surveys, conducted at the request of various customers and investors, allows us to stay responsive to the concerns that matter most to our stakeholders. This approach ensures that our actions are not only in line with our own sustainability goals but also resonate with the priorities of our valued customers.

**With the country aiming to become a global manufacturing hub, how critical will be "green engineering/manufacturing (sustainability)" practices for India to gain competitive advantage in the global marketplace?**

Green engineering and sustainability practices are not just ideals but imperative for India to secure a formidable standing in the global marketplace. Aligning with international environmental standards, India has witnessed a surge in eco-friendly initiatives. According to recent data, the country has seen a remarkable increase

**Green engineering and sustainability practices are not just ideals but imperative for India to secure a formidable standing in the global marketplace. Aligning with international environmental standards, India has witnessed a surge in eco-friendly initiatives.**

in green certifications for businesses, showcasing a growing commitment to sustainable practices. As the global demand for environmentally conscious products rises, Indian companies embracing green engineering not only contribute to a healthier planet but also tap into a burgeoning market of conscious consumers, creating a compelling competitive edge. Furthermore, the incorporation of green skills into academic frameworks and government initiatives like the Green Skill Development Programme further support this transformative journey.

The current landscape of green jobs is also poised for growth in the coming years, as companies grow highly ESG compliant and help achieve India's goal of net zero emissions by the year 2070.



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# “Bohmen Industries is focussing on automation of core processes”

Electromechanical switches - considered to be complex parts - enjoy high demand from a number of engineering industries that either rely on or help in process automation. Since 1977, Bohmen Industries has been supplying a wide variety of electromechanical limit switches and allied assemblies, which are used in food processing equipment, material handling equipment, rail coach safety systems, textile processing machines, etc. In this interview, **Abhishek Bohra**, Partner, Bohmen Industries, elaborates on steps taken by the company to reduce its carbon footprint across the manufacturing value chain.

## **Kindly brief us about Bohmen Industries and its offerings.**

We are manufacturers of various type of electro-mechanical switching devices, which can be used for process control in virtually any equipment, machine and production system.

Our products offer internationally accepted specifications in size, performance, electrical ratings and endurance. Bohmen Industries' manufacturing unit is based in the industrial cluster of metropolitan suburb of Bhayander, Thane. Our products cater to OEMs of elevators, escalators, conveyor systems, textile machineries, railway equipment, machine tools, die moulds, AHUs (air handling units), SPMs (special purpose machines), panels, hydraulic presses, injection moulding machines, casting foundries, commercial vehicles, forklifts, power transmission equipment, etc. The overall positive sentiments in Indian industry post Covid 19 pandemic, has contributed to robust growth in manufacturing sector and we are keeping pace with it.

## **How is your company contributing to the growth of the Indian manufacturing sector?**

The increasing focus of global markets on India as a source of high-quality products makes it essential that manufacturing in India is of international standards and practices. Being a key component of the eventual equipment (our products are used in), it is our responsibility to offer our customers the same attributes that they claim for their machines. Our R&D and production teams are putting their best efforts to ensure all our customers are able to get optimum performance at optimised prices and as per their schedules. A combination of economical manufacturing with premium performance attributes gives our customer a unique “Economium” experience.



## **What kinds of emerging trends are you observing in the industry?**

Indian manufacturers respect traditional Indian frugality, coupled with modern engineering knowledge, which brings to the fore great products. We are competing with the best in the world, and since brand India appears to be a synonym for trustworthiness, it is leading to increased opportunities for manufactured goods across the board.

## **Companies (including your customers) across industries are emphasizing on sustainability. How is your company helping them meet their sustainability goals?**

Sustainable manufacturing is a concept which is slowly and steadily capturing minds in India. Unlike the West, wherein sustainability has been recognised after years of excesses, we are an innately nature aligned nation, where repair, reuse and recycle has always been a part of the milieu. Our products aim to reduce the need for repair by performance, ensure the ability to reuse by modularity of design and incorporate materials that can be recycled. We have been able to convince our customers to reduce packaging in our goods by designing reusable boxes which can be used to transport goods locally, thereby reducing dependence on single use packaging.

## **Are your customers demanding more eco-friendly/sustainable products (solutions) nowadays?**

Presently, the focus of designing is primarily to achieve optimum performance coupled with reduction in costs. Those parameters which directly affect the process for which the product is to be used, are usually not covered under sustainability efforts. Allied costs like packaging, transport, handling processes, etc can be covered under



alternate means, thereby reducing carbon footprints. We don't find a priority towards sustainable product designs presently, but of course the increasing awareness is a stepping stone for better times to come.

### What measures are you taking to reduce carbon footprint across the manufacturing value chain?

Our products are consumed within industries, wherein there is a continuous flow of goods of all types. The first line of control for reducing waste/polluting components is packaging materials (plastics and paper). We ship our products in multiunit packs so as to avoid single boxes which are disposed after first use. Biodegradable polybags are an option to be explored for single use packs, subject to their current performance levels in protection.

### Do you think "green" or "sustainability" is an effective brand building tool for companies?

We learn in school that an ocean is formed from the few drops that fall in the beginning. Much as we might deny it, sustainable manufacturing is the need of the hour and each and every brand must make its best efforts to contribute to this movement. Those who are doing it right now, are definitely highlighting their efforts to be "Green" and the new-age consumer does notice. Implemented in all genuineness, it surely magnifies the brand's perception in the consumer's mind, as the go-to brand for the conscious designer manufacturer.

### How do you plan to scale up your business in the near future?

We are focussing on automation of our core processes to enhance the capacity quickly. Untapped sectors are a priority along with untapped customers in the existing segments that we operate in. We have launched two new products in 2022-23 for the Indian Railways, which are now established in their markets and contributing very

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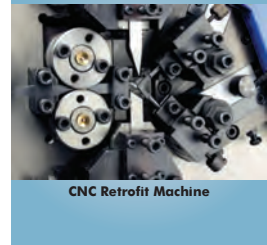
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Our knowledge in the switching industry globally has helped us identify key products that need strong Indian players who can give major brands a run for their money. Hopefully, we should see these being launched in 2024-25 to a good response.



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### NEWS SNIPPET

## Pepperl+Fuchs' solutions for safe handling of ammonia

**A**longside the increase in electrification, hydrogen will play a crucial role as the key to the energy transition. This will involve everything from the long-term storage of energy up to the molecular replacement of all fossil fuels. Unfortunately, Germany does not have the space available to cover the full extent of future demand via its national production. Today, it is assumed that imports will be in the range of 60 to 70 percent.

Hydrogen will be transported by ship, which presents a problem. Liquefaction, for example, consumes a lot of additional energy. However, other means of transport are not yet available. Transporting ammonia, on the other hand, is an established process, with about 20 million tonnes being transported every day. For this reason,

well-known suppliers have made the decision to produce ammonia by combining green hydrogen with nitrogen and to transport the ammonia using the established methods.

Because it is a toxic and explosive substance, appropriate safety measures must be taken. From landing and additional transport over land to further processing steps, Pepperl+Fuchs products — such as the K-System series switch amplifiers that safely separate field devices from controllers—can be found in the systems used. A wide range of barriers can be adapted to the respective systems. Ethernet-APL switches are increasingly used for modern data transmission, enabling high data transfer rates in a secure environment.

Sensors are available for monitoring a large number of valves and reporting their respective positions.

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# “R&D emerges as a cornerstone in the pursuit of green goals”

Recognising the importance of aligning business practices with environmental stewardship, Cummins India has committed to minimising the environmental impact and promoting sustainability across its operations. Cummins India’s commitment to sustainability is an integral aspect of the business ethos and sits at the core of the company’s strategy, says **Shubhankar Chatterji**, Chief Supply Chain Officer, Cummins India, in this interview. Here, he also explains the importance of green manufacturing practices for India to gain a competitive advantage in the global marketplace.

## **With climate change gaining traction, what changes are you witnessing in the manufacturing sector?**

With climate change discussions at the center stage, organisations and consumers are becoming more conscious of their environmental impact, recognising the need for responsible and eco-friendly practices. This shift toward sustainability has emphasised the need for environment friendly manufacturing processes, resource efficient technologies, and responsible consumption patterns to mitigate the adverse effects of industrial activities on the planet.

Key transformations that are evident in the manufacturing sector aligning to the sustainable shift are:

- Adoption of cleaner technologies and circular economies
- Leveraging data, technology, and Artificial Intelligence (AI) to optimise manufacturing processes
- Increased focus on collaboration for a sustainable future with governments, businesses (across the value chain), and other stakeholders
- Heightened focus on the use of sustainable modes of transportation for goods
- Use of sustainable raw materials
- Embedding sustainability in supply chain operations across the value chain
- Build organisational reputation by focusing on sustainability and green manufacturing as key differentiators, thereby creating a competitive advantage
- Ever-evolving customer perceptions and demands

## **What steps are being taken Cummins to achieve the objectives of sustainability?**

At Cummins India, our commitment to sustainability is



an integral aspect of our business ethos and sits at the core of our strategy, an ongoing process for us. We recognise the importance of aligning our business practices with environmental stewardship. We are committed to minimising our environmental impact and promoting sustainability across our operations.

In adherence with the Business Responsibility and Sustainability Report (BRSR) reporting standards, we publish our ESG commitment as an enterprise. This is in perfect alignment with our PLANET 2050 sustainability strategy. We have a holistic approach toward developing an ESG framework that goes beyond the regulatory compliance.

Within our supply chain operations, our primary focus is to eliminate waste and shift towards a green supply chain. We have undertaken initiatives such as the introduction of returnable packaging, reduction of transit lead time to procure parts, and bundling of shipments through the milk run to enhance operational efficiency. We are consistently focused on reducing premium freight that supports both economic and environmental sustainability.

Further, we continue to place a strong emphasis on optimising our energy utilisation across manufacturing facilities by using Integrated Facilities Management systems. Additionally, we have integrated solar panels across the facilities to increase the use of renewable energy in plants.

## **Why is it important for manufacturers in India to adhere to green manufacturing practices to gain a competitive advantage in the global marketplace?**

The Indian manufacturing sector plays a pivotal role in driving economic growth and significantly contributing to the country’s GDP, generating employment, driving and



**As India envisions to become a \$10 trillion economy, the manufacturing sector will be required to enhance its contribution while addressing its energy-intensive nature and significant greenhouse gas emissions.**

facilitating export demands and advancing innovation.

However, as India envisions to become a \$10 trillion economy, the manufacturing sector will be required to enhance its contribution while addressing its energy-intensive nature and significant greenhouse gas emissions. To achieve this, the adoption of 'green manufacturing' practices incorporating green technologies, higher energy efficiency, and responsible waste management processes becomes imperative.

Key ways in which Indian manufacturers can gain competitive advantage in the global marketplace by embracing green/sustainable manufacturing include:

- Improve efficiency: Achieve cost reduction by optimising processes, minimising overhead expenses and downtime
- Foster innovation in technology, design, business models, and policies that can create new markets, new products, new services, and new solutions for existing or emerging challenges
- Minimise environmental and social risks
- Enhance employee morale and worker safety
- Redirect focus on global competitiveness and profitability rather than relying on pricing and risk management.

### **What are some of the key challenges in adopting "green engineering (manufacturing)" practices? How can companies overcome them?**

Embracing green engineering or manufacturing practices has its own set of challenges. While the benefits are substantial, companies may face obstacles in implementing sustainable initiatives. However, these can be implemented in phases, eventually scaling up the adoption. Some of the key challenges include:

- Significant upfront investment
- Lack of expertise in the adoption of sustainable manufacturing practices
- Limited access to technical knowledge
- Absence of a holistic approach to implementing sustainable manufacturing practices
- Managing supply chain complexities
- Resistance from employees
- Dynamic regulatory framework to encourage sustainable practices adoption
- Complex measuring and reporting practices
- Limited research for deploying used cases

Companies can overcome these challenges by adopting a strategic approach to employ the following:

- Invest in capacity building and training programs to build a skilled workforce capable of

- implementing green engineering practices
- Advocate and establish a clear policy and regulatory framework
- Promote collaboration with stakeholders, including suppliers, customers, and regulators, to develop a shared vision for sustainable manufacturing
- Leverage technological advancements to optimise efficiency, resilience, and use of natural resources
- Communicate the benefits of green engineering to employees, fostering understanding and support for the transition

By implementing these strategies, companies can overcome barriers and successfully transition toward green engineering. This not only contributes to overall sustainability efforts but also positions companies to thrive in a sustainable and competitive future.

### **How important are adoption of modern technologies and automation for "green engineering (manufacturing)"?**

Integration of modern technologies and automation plays a decisive role in green manufacturing, facilitating sustainable practices and providing a competitive edge in the global marketplace.

Automation and cutting-edge technologies with Industry 4.0 advancements including smart machines, cloud computing, AI, and IoT, are empowering sustainable manufacturing by minimising waste, promoting energy-saving processes, and lowering emissions. These technologies not only improve operational efficiency but also contribute toward building a circular economy in the eco-system. Additionally, the adoption of modern technologies promotes inclusive economic growth while enhancing the resilience to climate change and associated risks.

As companies embrace these technological advancements, they position themselves for a more environment friendly and economically sustainable future.

### **What is the significance of R&D (innovations) for achieving green goals?**

R&D emerges as a cornerstone in the pursuit of green goals, driving sustainable innovations and environmental stewardship. R&D investments enhance energy efficiency, reduce waste, foster sustainable practices, and facilitate eco-friendly product development. This not only helps in reducing emissions but also actively contributes to the attainment of climate and sustainability goals. Notably, R&D also propels global competitiveness, shifting the emphasis from pricing to profitability, risk management, and operational efficiency.

The synergy between green manufacturing and circular economy creates pathways for potential markets, products, services, and solutions to address existing and emerging challenges.



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# “Socomec aims to recover 80% of industrial waste by 2030”

As a result of increasing awareness about environment, the global marketplace is increasingly demanding sustainable and eco-friendly products. Manufacturers who develop green products are able to position their brand better and have a clear edge over competitors, says **Meenu Singhal**, Regional MD, Socomec Innovative Power Solutions Pvt Ltd. In this interview with Rakesh Rao, Meenu Singhal elaborates on the changes taking place in the manufacturing sector as companies aim to reduce their environmental impact.

## **How is the electrical equipment manufacturing sector transforming with climate change gaining traction?**

The electrical sector is adopting quickly to the technologies like IoT and remote monitoring. The entire sector is moving towards a sustainable and resilient energy landscape. Using of environment friendly products like advanced lithium-ion batteries is being promoted. Many players have shifted focus completely towards green manufacturing practices and played a part in the transition to a low-carbon economy.

Adopting such measures lead to efficient use of resources and improves reliability, control and monitoring and also optimises the electrical installations.

The manufacturers are also constantly exploring ways to design products that exceed expectations in terms of energy efficiency and sustainability.

## **What steps are being taken by Socomec to achieve sustainability goals?**

At Socomec, we are committed to reducing our environmental impact by adopting environment-friendly manufacturing processes. We have implemented various measures to reduce energy consumption and water usage. We have also implemented a waste reduction programme which includes segregation, recycling and reuse.

We are pursuing to recover 80 percent of our industrial wastes by 2030 and also, optimise the energy performance of our buildings. Through ISO 14001 certification, Socomec aims to maintain strong environmental governance and processes at its industrial sites, improve its environmental performance, and reduce environmental risks. The certified sites are audited annually, environmental risks are assessed and a strategy focusing on energy consumption optimization,



waste management and CO2 emission reductions are formulated to address concerns.

With the aim to control waste and energy consumption, our manufacturing sites do not discharge any liquid effluent except for sanitary wastewater. Atmospheric emissions are minimal and do not exceed the regulatory limit values. The technical service team analyses the environmental footprint before purchasing any new equipment.

Socomec supports circular economy and is committed to collecting and sorting waste and increasing its recovery rate, monitoring the waste from all the production sites, aiming to reduce them as much as possible and promoting the recovery of bio-waste from some of our company canteens

into energy and fertilisers with the help of local service providers.

Waste is sorted as soon as it is produced and is stored in specific containers before being removed. Specialised companies handle its transportation and treatment. Employees at the production sites have been made aware of the need to sort waste and the associated storage rules and they have been doing it for many years.

## **How is Socomec helping its customers to achieve their Net Zero emission targets?**

Balancing regulatory requirements and environmental standards with the primary needs of customers to help them meet Net Zero emission targets is a challenge. Keeping in mind our customers' needs, we devise solutions and products that consume less energy and are eco-friendly. We conduct life cycle assessments to ensure minimal environmental impact and improved performance.

Socomec is an ISO 14001 certified company and maintains the highest environmental management



standards. Our focus will continue to be on improving our products' sustainability performance.

We also provide our customers with reliable information regarding the environmental performance of our products through Product Environmental Profiles (PEPs) which describe the characteristics and environmental impact of our products, reiterating to our customers that Socomec products adhere to the highest environmental standards.

### **Why green manufacturing practices are important for India to gain competitive edge in the global marketplace?**

The global marketplace increasingly demands sustainable and environment friendly products, as a result of increased awareness about environmental, social, and economic challenges that come with not adhering to it. This shift is forcing Indian manufacturers to showcase their genuine commitment towards sustainability through their manufacturing practices and products.

Moreover, only green products comply with the environmental protection and product safety regulation and all other required standards to facilitate smoother access to global markets, thus reducing the risk of legal issues and market exclusion.

Manufacturers who develop green products are able to position their brand better and have a clear edge over competitors. As a result, there is a tough mandate for Indian companies to build a strong commitment towards sustainability and attract more investments to develop the country's economy. Moreover, countries with strong commitments to sustainability are often more attractive to foreign investors.

### **How critical will be the adoption of modern technologies & automation for green manufacturing?**

Today's evolving customer needs for more reliable, super-efficient and intelligent solutions, fosters innovation in product design and development by leveraging these modern technologies.

Also, the adoption of advanced technologies leads to lesser downtime, reduces wastage, increases operational efficiency and production speeds, resulting in overall cost reduction of the electrical infrastructure. These factors also help manufacturers to reduce the carbon footprint and contribute to sustainability goals.

By adopting to modern technology, manufacturers gain customer trust and establishes a competitive edge, particularly in industries where product quality is a critical factor. Many global markets have high tech standards, and the adoption of modern technologies helps Indian manufacturers meet these standards, enhancing their access to international markets.

Socomec's continuous investment in cutting-edge technology ensures unmatched UPS longevity, empowering our customers to meet sustainability goals and contribute to a greener future. One of our solutions, MODULYS XM comprises a 50 KW power module and

optimized set of fully equipped systems – MODULYS XM, for 250 kW + 50 kW redundancy and MODULYS XM, for 600 kW + 50 kW redundancy. MODULYS XM's 50 kW power modules have proven reliability of more than 1,000,000 hours MTBF (Mean Time Between Failures), as certified by a third party based on robust data - which is at least 4 times longer than the best market standards.

The recently launched product, MODULYS XM is designed with a life expectancy of 20 years making it a 'Forever Young' product.

### **How do you see the performance of the electrical equipment market in 2023? What is your expectation for 2024?**

The Indian manufacturing sector has had a bumpy ride in 2023 as in the first nine months of the financial year 2023-24, the manufacturing PMI for India has fallen five times. The global PMI surveys show that new orders for goods have fallen continuously over the past one and half years. Though the situation for manufacturing sector has been bleak, the electrical industry has a soft landing in 2023.

Socomec's efforts to understand the challenges pertaining to different types of critical power chain distribution and architecture and address them holistically has been well appreciated by our customers. We expect faster movement towards energy transition and net zero objectives. There will also be extra stress on global renewable energy capacity.

### **How do you plan to scale up your business "sustainably" in India?**

Socomec will continue with its commitment to meet the evolving energy needs in the Asia-Pacific region by manufacturing sustainable products in India. With the ongoing increase in the data centre market and the rising demand for power backed data centres, we have recently launched Delphys XL in 2 variants - 1000 & 1200 kVA/ KW UPS to meet the evolving needs in the Asia-Pacific region. The manufacturing of our Delphys XL UPS solutions at our newly opened Gurgaon factory underlines our commitment to leveraging local talent and resources while delivering superior power solutions tailored for the Data Centre industry.

Additionally, we have a structured growth plan for the years ahead. We have established robust manufacturing capabilities in India through continuous investments. India is critical for Socomec's strategic growth in the Asia-Pacific market. We remain steadfast in our commitment to India, with ambitious plans for further innovation and expansion aimed at meeting the evolving demands of the local market. This dedication fosters progress, sustainability and technological advancements, strengthening the manufacturing ecosystems and delivering state-of-the-art solutions across diverse industries.



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# “We will be unveiling products with high energy efficiency standards”

Gandhi Automations Pvt Ltd is entrance automation and loading bay equipment manufacturer in India. In this interview, **Samir Gandhi**, Director, Gandhi Automations Pvt Ltd, tells how the company's products such as Prime Reset etc, stands out within the industry in terms of safety and energy efficiency with latest technological advancements. We continually invest in research and development to stay at the forefront, says Gandhi while adding the crucial features of company's products.

**High-speed doors are a crucial component in various industries. Could you elaborate on the technological advancements that make your high-speed doors unique and efficient?**

At Gandhi Automations, we've been in the industrial and warehousing sector for the past two decades, and our primary focus has always been on providing top-quality solutions for our clients. High-speed doors are a crucial component in various industries, and we take pride in the technological advancements that set our high-speed doors apart.

One of the key factors that make our high-speed doors unique and efficient is our commitment to innovation. We continually invest in research and development to stay at the forefront of technological advancements. Our doors are designed with cutting-edge features that enhance their performance and reliability.

Here are a few key technological advancements that make our high-speed doors stand out:

- **Speed and Efficiency:** Our doors are engineered for rapid operation, allowing for swift access and minimising energy loss. This speed is achieved through advanced motor systems and control mechanisms.
- **Safety:** Safety is paramount in industrial and warehousing environments. Our high-speed doors incorporate state-of-the-art safety features such as advanced sensors and collision detection systems to protect both personnel and equipment.
- **Durability and longevity:** We use high-quality materials and manufacturing processes to ensure that our doors are built to last. This longevity not only reduces maintenance costs but also contributes to sustainability by minimising the need for replacements.
- **Customisation:** We understand that different industries have unique requirements. Our High-Speed Doors can be tailored to



meet specific needs, whether it's temperature control, security, or environmental considerations.

- **Energy efficiency:** Our doors are designed to help clients reduce their energy consumption. They provide an effective thermal barrier, which is crucial in climate-controlled environments, ultimately saving on energy cost.
- **Smart technology:** We have incorporated smart technology into our high-speed doors, enabling remote monitoring and control. This not only adds convenience but also contributes to proactive maintenance and operational efficiency.

In summary, our commitment to technological advancement, safety,

durability, customisation, energy efficiency, and smart technology sets our high-speed doors apart in the industry. We're dedicated to providing innovative solutions that help our industrial and warehousing clients optimise their operations and enhance their overall productivity.

**In the manufacturing industry, downtime can be costly. Can you explain how Prime Reset, your high-speed self-repairing door, helps reduce downtime and increase efficiency on construction sites?**

Minimising downtime is absolutely critical for keeping projects on schedule and within budget. Prime Reset is specifically designed to address this challenge. It serves as a game-changer in manufacturing industries, and here's how it works to reduce downtime and enhance efficiency:

- **Rapid operation:** Prime Reset is a high-speed door, designed for swift opening and closing. This means construction teams can quickly move equipment, materials, and personnel in and out of designated areas, reducing waiting times and bottlenecks.
- **Self-repairing mechanism:** One of the standout features of Prime Reset is its ability to self-repair. In a busy environment, accidents and collisions are

bound to happen. However, Prime Reset can withstand these impacts and automatically reconfigure itself, without the need for extensive repairs. This is a significant time-saver compared to traditional doors that might require manual intervention and lengthy maintenance procedures.

- **Durability:** Prime Reset is built to withstand the rigors of the Industries. It's constructed from high-quality materials that can handle the dust, debris, and harsh environmental conditions commonly found in industrial areas. This durability ensures it remains operational, even in tough working conditions.
- **Enhanced safety:** Safety is paramount in the any industry. Prime Reset's advanced safety features, including sensors and automatic reversal mechanisms, contribute to a safer work environment. This not only reduces downtime due to accidents but also increases the overall efficiency of construction activities by minimising disruptions.
- **Energy efficiency:** Prime Reset is designed to be energy-efficient, reducing operational costs. With features like high-speed opening and closing, it helps to maintain temperature and humidity control in controlled environments, which is crucial for certain construction processes.

In summary, our Prime Reset High-Speed Self-Repairing Door is a strategic investment for companies looking to minimise downtime and boost efficiency. It ensures seamless, rapid access, enhances safety, and reduces the need for extensive maintenance.

### **With the increasing focus on safety regulations, can you highlight the safety features integrated into your products?**

Safety is a paramount concern in the construction and large infrastructure sectors, and we take this aspect very seriously at Gandhi Automations. Over my 20 years as the director of the company, we've continually invested in and evolved our products to ensure the highest safety standards. Here are some key safety features integrated into our products relevant to these industries:

- **Obstacle detection technology:** Our products, including high-speed doors and entrance automation solutions, are equipped with advanced obstacle detection technology. This ensures that if an object or person is in the way, the door will automatically stop and reverse to prevent accidents.
- **Emergency stop and panic buttons:** We incorporate easily accessible emergency stop and panic buttons in our control systems. This allows for immediate halting of the door's operation in case of an emergency, ensuring the safety of personnel and equipment.
- **Safety sensors:** We use a variety of safety sensors, such as infrared photocells and safety edges, to create safe zones around our products. These sensors detect any obstructions or obstacles in the

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**IoT, or the Internet of Things, has become a game-changer in the entrance automation industry. It enables us to offer our customers smarter and more efficient solutions.**

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door's path and trigger an immediate response, preventing accidents.

- **User training and support:** We provide training and support to our clients to ensure that they are well-versed in the safe operation of our products. This includes regular maintenance and safety checks to prevent accidents.
- **Compliance with regulations:** All our products adhere to European safety OR International standards and regulations, ensuring that they meet or exceed safety requirements relevant to the construction and infrastructure industries.

Safety is a core value for us at Gandhi Automations. We are committed to providing products that not only enhance operational efficiency but also prioritise the well-being of all individuals on construction sites and large infrastructure projects. Our dedication to safety is evident in the advanced safety features integrated into our products and our ongoing commitment to innovation and compliance with safety standards.

### **How is technology like IoT being integrated into your products to enhance functionality and maintenance?**

In today's rapidly evolving world, technology is at the heart of innovation, and at Gandhi Automations, we've recognised the immense potential of IoT in enhancing our products and improving maintenance processes. Over the past two decades, I have had the privilege of leading our company in this technological transformation.

IoT, or the Internet of Things, has become a game-changer in the entrance automation industry. It enables us to offer our customers smarter and more efficient solutions. For instance, our high speed doors and gates are now equipped with IoT-enabled sensors and connectivity features. These sensors collect real-time data on usage, performance, and potential issues. This data is then transmitted to a central system, where it can be analysed to improve functionality and maintenance.

Firstly, IoT allows us to offer predictive maintenance. By continuously monitoring the condition and performance of our products, we can detect anomalies or wear and tear before they lead to a breakdown. This proactive approach helps prevent costly downtime and ensures that our customers can rely on our products with confidence.

Secondly, IoT technology has brought about remote monitoring and control. Our customers can now manage and control their doors and gates from anywhere, using a smartphone or a web application. This not only adds convenience but also enhances security.

Furthermore, data analytics is a powerful tool that IoT enables. By collecting and analysing data from thousands



of installations, we can identify usage patterns, potential efficiency improvements, and even trends in security risks. This insight allows us to continuously optimise our products and services to meet the evolving needs of our customers.

In summary, technology like IoT has become an integral part of our product development and maintenance strategy. It allows us to offer innovative solutions, predictive maintenance, remote control, and data-driven enhancements, all of which ultimately lead to a more secure, efficient, and convenient experience for our customers. As we look to the future, we are committed to staying at the forefront of technological advancements, ensuring that our products continue to meet the changing demands of our customers in an increasingly digital world.

### What are some of your upcoming innovations in entrance automation and loading bay equipment?

Innovation has been at the heart of Gandhi Automations for the past two decades, and it continues to drive our commitment to enhancing the efficiency, safety, and sustainability of entrance automation and loading bay equipment. We are excited to share some of the upcoming developments you can expect from us in the near future.

- **Smart and IoT integration:** We are actively working on incorporating smart technology and Internet of Things (IoT) capabilities into our product range. This will allow our clients to monitor and control their entrance and loading bay systems remotely, optimising operations and enhancing security.
- **Energy-efficient solutions:** Sustainability is a priority, and we're developing energy-efficient solutions that reduce power consumption and minimise environmental impact. Our clients can look forward to products that meet the highest energy efficiency standards.
- **Enhanced safety features:** Safety remains paramount. We are introducing cutting-edge safety features that not only meet industry standards but also go beyond. This includes advanced sensor technology and real-time monitoring to prevent accidents and improve workplace safety.
- **Ease of maintenance:** We understand that downtime can be costly. Our upcoming developments focus on ease of maintenance and quick serviceability to minimise disruptions to our clients' operations.

These innovations are a testament to our dedication to meeting the evolving needs of our customers and staying at the forefront of the industry. We look forward to introducing these exciting developments to the market, further solidifying Gandhi Automations as a leader in entrance automation and loading bay equipment.



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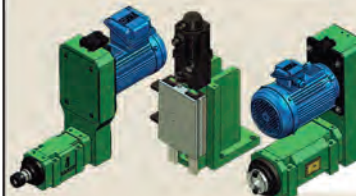
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# “Sustainability practices has fortified our business growth”

Soma Specialities has been the pioneer in introducing mechanised floor cleaning and floor maintenance systems indigenously manufactured in India. **Samir Sabu**, Director, Soma Specialities, in this interview, lines down the growth and changes of the cleaning industry in India. The company is also the largest manufacturers of single brush floor cleaning machines in India. Trends such as China Plus One and sustainability are also changing the customer preferences in the country, adds Sabu.

## Kindly brief us about your company.

Our company started manufacturing floor cleaning machines back in 1992 but our journey in the cleaning industry started way back in the 1970s when we started taking housekeeping contracts in factories. Since there was no machine available for cleaning in those days, our technocrat Founder and Managing Director Mr Om Sabu found an opportunity and developed the first single disc floor scrubber CYCLON FM-240 in India in 1992. From thereon began our journey of backward integration and since then we have developed the largest range of floor cleaning machines in India for every application indigenously. We have our own range of floor cleaning machines such as single disc scrubbers, floor scrubber dryers, industrial vacuum cleaners and mopping machines and we also have acquired dealerships of internationally reputed manufacturers for their range of specialised cleaning machines such as road sweeping machines, high pressure jet cleaners, concrete floor grinding machines etc which allows us to provide a complete range of cleaning machines and solutions to our customers for their various cleaning applications.

Our customers are as diversified as can be as they come from varied industries such as manufacturing industries, warehousing and logistics industries, pharmaceutical industry, educational institutions, hotels, banquet halls, hospitals, airports, railway stations, public sector units, shopping malls, commercial offices and



complexes, residential complexes etc. What we mean to say is that there is no place which can do without mechanised cleaning systems in present times.

Since our foray into manufacturing in 1992, our current production unit based on the outskirts of Mumbai is the 4<sup>th</sup> manufacturing plant where we moved in 2009. Our turnaround came in 2007 when a leading manufacturer in cleaning machines from Germany called Karcher approached us to design, develop and manufacture a specific floor cleaning machine for them. Having found us capable to helm such a prestigious project for them was a huge validation for us but they also wanted us to increase our production capacity to meet their volume requirements. So we moved to our present manufacturing plant in 2009 and added state of the art manufacturing and testing equipment to increase our production capacity with additional assembly lines. Thanks to our good reputation, today our core customers include six multinational manufacturers of cleaning machines out of which five are from Europe for whom we do OEM manufacturing. Apart from this, our own brand CYCLON also sells well in the market, especially the industrial sector and we are also exporting our products to international markets in the Middle East, Africa, South Asia and South America. We feel a great sense of pride to say that we are the largest manufacturers of single brush floor cleaning machines in India. The best thing to have happened to us since the pandemic has been the increased acceptance of indigenous products. Customers preferences have changed from not just boycotting Chinese products but preferring Indian products over imported goods, be it from Asia or Europe or USA. Due to this, our Y-o-Y growth has been a solid 25-30 per cent every year since the restrictions were lifted. We were always a favourite among the industrial customers for our indigenous roots but now we are widely preferred in the hospitality

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**The western countries and China have started toying with robotic cleaning machines but it is in a very nascent stage and they are all testing the performances in their own regions before going global to sell these machines.**

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**Our growth has been steady over the years and this year we will be seeing a growth of almost 25-30 per cent compared to last year and looking at our new launches and new avenues in terms of customers in India and overseas, we are looking at doubling our revenues within 2-3 years from now.**

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industries also where there was a higher affinity towards imported products. We have built our reputation as a company that developed all these machines indigenously without any foreign support.

### **How is your company contributing to the growth of the Indian manufacturing sector?**

When we started at a very small level, we did not have the volumes like the developed countries. Without larger volumes, big companies were not willing to make customised parts for us. So we had to develop small scale entrepreneurs for whom we were the only customers. Today, with our growth, their business has also grown substantially and they are all able to employ more manpower. Some of them who were more like a single person factory have been able to employ dozens of labourers and grown organically with us. This was one way of contributing to the Indian manufacturing sector's growth story. Till date, some of them are only producing parts for our company and do not have another customer as their entire capacity is utilised for our needs. On our part, we supported them with transferring technology and sometimes financing for increasing production capacity or infrastructure so that they could continue to supply us uninterrupted.

In other terms also, cleaner workplaces lead to increased productivity from the labour force and better employee retention, low risk of injuries. When factories deploy cleaning machines to keep their plants clean, they automatically enhance a favourable response from the workforce to do better work. On the other hand, there are many factories which do not have good hygiene and visitors/clients do not like to visit such factories. Such factories do not give a good impression about their products or quality to the customers and will eventually not get good business. Therefore, keeping the premises clean will definitely help in growing the manufacturing sector and also help them to bag big orders, not only from domestic but also international markets.

### **What kinds of emerging trends are you observing in the industry today?**

As compared to the market, say 15-20 years ago when customers used to tell us that they don't need cleaning machines since they already have manpower to do this job, now they ask for a machine with as many cleaning capabilities as possible to keep manpower to the bare minimum, say not more than one at times. Customers are

looking for an alternative to reduce their dependence on manual labour to do the cleaning. So automation will be trending more and more in a few years from now. As of today, the western countries and China have started toying with robotic cleaning machines but it is in a very nascent stage and they are all testing the performances in their own regions before going global to sell these machines. For the Indian customers, their primary goal is to reduce the dependence on manpower for cleaning and deploy bigger and faster machines that can do cleaning faster and better so as to allow them to focus more on their core business activities.

### **Companies across industries are emphasising on sustainability. How is your company (with your products, technologies, solutions, services, etc) helping its customers to meet their sustainability goals?**

The practice of sustainability in today's corporate world is clearly a big contributor for our business growth as corporates understand their responsibility towards the environment so in order to eliminate waste, they have to deploy cleaning machines. Also, to ensure that products produced in their factories say in food or pharma, hygienic conditions demand mechanised cleaning using machines. Cleaner floors and walls improve the ambient lighting in the premises thereby reducing the requirement of lights and reducing consumption of electricity. By reducing the consumption of water, cleaning machines help in sustainable environmental conservation. When production waste is not allowed to mix with the atmosphere through usage of vacuum cleaners, floor cleaning machines and sweeping machines, it helps in preventing pollution. A vacuum cleaner can be used to clean the walls and ceilings and keep it free from dust and cobwebs, collect production waste from the machines and eliminate waste, a sweeping machine can be used to collect dust from inside the plant or even to sweep the internal roads of the plant, a floor cleaning machine can keep the floors of the plant sparkling clean, a high pressure jet cleaner can clean the machineries and utensils in mint condition by not letting dirt accumulate on it.

All these operations can either save water, electricity, or prevent pollution. For a country where water scarcity is a serious issue in many regions, maintaining cleanliness while saving water with our machines is our way of giving back to the community. Thus with proper use of cleaning

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**A fresh and healthy environment reduces stress and offers a positive outlook about the working atmosphere. Corporates have become more educated and before buying, seek information about power and water consumption, emissions from the machines if any, safety and security hazards to the premises etc.**

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machines, companies can conserve electricity, water and eliminate pollution and thereby do their bit for a cleaner and sustainable environment.

**Could you please highlight on some of the "Green Engineering" solutions offered by you to your customers in the industrial sectors?**

Our Floor Cleaning machines regulate the usage and consumption of water for floor cleaning, thereby saving a valuable natural resource. Some of our machines use only 10 per cent of water compared to manual mopping. With the reduction of water also comes the reduction of expensive and harmful cleaning chemicals that are used for floor cleaning. Even then, the cleaning quality is far better in addition to reduction in manpower as 1 machine with 1 operator can do the job of 5 people atleast. While savings in water and chemicals, it also keeps the floors clean thereby enhancing the appearance of the floors, improving the reflectivity and ambient lighting in the building which can in return reduce power consumption of the premises.

**Are your customers (especially big companies/MNCs) demanding more eco-friendly/sustainable products and solutions nowadays?**

Corporates have understood that a healthy and clean environment will surely bring about a workforce with enhanced well-being. This will decrease the average number of leaves per worker in business and help in employee retention thereby enhancing productivity. A tidy workplace is also a wonderful tool for promotion in relation to customers, selling the building, or rental area. Clean and neat workplaces are less vulnerable to employee injuries and injuries because of falls and slides. A cleaner workplace is safe for workers and so meets the global security standards. A fresh and healthy environment reduces stress and offers a positive outlook about the working atmosphere. Corporates have become more educated and before buying, seek information about power and water consumption, emissions from the machines if any, safety and security hazards to the premises etc. Once we inform them that all these concerns will be reduced with cleaning machines, they are more confident in procuring the machines.

**What measures are you taking to reduce your carbon footprint across your manufacturing value chain?**

We believe that sustainability does not mean sacrificing

In the next 1-2 years, we intend to launch more cleaning machines with a well-defined marketing plan and additional manufacturing lines for them. We also plan to create more strategic tie-ups with international manufacturers for parts as well as for machineries to market their products in India.

As our volumes have also increased, it only makes sense for us to use more plastics and our use of FRP has come down to zero. Besides this, there is no chemicals involved in manufacturing of machines so it does not create pollution.

profits or putting success on the backburner. Being environmentally friendly is a cause very dear to us so we chose not to work with some vendors that might be closer to us or cheaper but operating beyond their respective zones and creating polluting activities. Also, as we are situated closer to rural areas, we are employing a lot of local labour to create jobs for the local youth. By investing heavily into moulds and dies, we are able to produce many parts in plastics or casts which are recyclable unlike use of fibre reinforced plastics which cannot be recycled. As our volumes have also increased, it only makes sense for us to use more plastics and our use of FRP has come down to zero. Besides this, there is no chemicals involved in manufacturing of machines so it does not create pollution.

**How do you plan to scale up your business in the near future?**

In the next 1-2 years, we intend to launch more cleaning machines with a well-defined marketing plan and additional manufacturing lines for them, of course in addition to expanding our sales network in India and overseas by leveraging our vast experience and knowledge in this industry. We also plan to create more strategic tie-ups with international manufacturers for parts as well as for machineries to market their products in India which are not available in India to expand our range of products. We are always looking for newer products and solutions that address problems faced by customers and likewise launch them in India. We plan to add more machineries and processes in-house for faster production, reduced costs and better quality control. We have added new dealers in overseas markets and intend to add more in unrepresented areas.

Until now, our international dealers have come to us through word of mouth publicity but as Indian made products are gaining more preference despite not being the cheapest, we would also like to make our marketing efforts more aggressive. As our range of products increases, it will be easier for overseas buyers to select more products from us and this should expand our presence in the international markets. Our growth has been steady over the years and this year we will be seeing a growth of almost 25-30 per cent compared to last year and looking at our new launches and new avenues in terms of customers in India and overseas, we are looking at doubling our revenues within 2-3 years from now.





# “We are coming up with a new green-field facility in Ahmedabad”

Nu-Vu Conair Pvt Ltd is leading manufacturers of plastic auxiliary equipment in India. Plastic has always failed conceptually when sustainability is discussed around. But **Satish Godase**, Director, Nu-Vu Conair Pvt Ltd in this interview tells how the company has been able to meet sustainable targets and leading a green engineering being in a plastic industry business.

## Kindly brief us about your company?

Nu-Vu Conair is a joint venture company between Nu-Vu Engineers, Ahmedabad, India and The Conair Group, headquartered in Cranberry Township, Pennsylvania, USA. The joint venture started in 2007 and now the company is one of the leading manufacturers of Plastic Auxiliary Equipment in India. It has a state-of-the-art manufacturing facility with a total area of nearly 2,25,000 sqft in Ahmedabad to manufacture central vacuum conveying systems, drying systems, gravimetric blending systems, chillers and mould temperature control units, crystallisers, belt conveyors, granulators and more for polymer processors. The company serves a wide range of industries across various applications and has clocked growth of 15 per cent YoY.



## on sustainability. How is your company (with your products, technologies, solutions, services, etc) helping them meet their sustainability goals?

Nu-Vu Conair is a value driven organisation that has always believed in providing solutions that are inclusive and beneficial for all. Our products undergo regular upgrades and advancements to provide maximum efficiency with minimum environment footprint. Our energy efficient technology helps plastic processors cut their energy expenses, improve cycle time and improve quality. This helps our customers to achieve maximum output with lowest possible cost.

## How is your company contributing to the growth of the Indian manufacturing sector?

Plastics Industry is a big contributor to the Indian GDP and economy. It is one of the fastest growing industries in India which has varied applications across sectors be it automobile, medical, packaging, agriculture, white goods, electronics, etc. Our products provide automation and technological solutions to plastic processors that help them increase productivity, improve quality and reduce cost. This in turn benefits the Indian manufacturing sector as a whole.

## What kinds of emerging trends are you observing in the industry today?

Plastics industry is also undergoing a lot of advancement just like all other industries. Focus on sustainability is driving demand for products that are energy efficient and environment friendly. Also the focus is on new emerging trends such as Industry 4.0, remote monitoring, cloud based systems, etc.

**Companies across industries are emphasising**

## Could you please highlight on some of the “Green Engineering” solutions offered by you to your customers in the industrial sectors?

To name a few, our Dehumidifying Air Dryer is industry leader in moisture removal and runs on a very energy efficient technology. Our chillers use environment friendly refrigerant that are R410A. Our Adiabatic Cooling Towers reduce water evaporation by using a closed loop system.

## Are your customers demanding more eco-friendly/sustainable solutions nowadays?

Yes, customers have certainly become more aware and are inquiring about sustainable products and services. The adoption has already started and with more R&D, the costs will further come down and more companies will be able to incorporate them in their

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We have a new green-field facility coming up right adjacent to our current factory. The company's growth over the years and the demand for our products and services has enabled us to undergo this expansion.

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manufacturing processes.

### What measures are you taking to reduce your carbon footprint across your manufacturing value chain?

Some of the measures are - designing product that uses less energy, innovative solutions to increasing efficiency and reduce cycle time, optimising processes, selecting right components, educating vendors, awareness drives amongst employees and suppliers, energy saving or reducing features in plant and operation.

### Do you think "green" or "sustainability" is an effective brand building tool for companies?

Being a "Green Company" definitely helps your brand image but it is a continuous improvement process that has to be followed diligently. It is not something to be on paper only, all your processes and operations should be synchronised effectively which in turn will reduce your carbon footprint as well as enable you to offer sustainable technology to the market.

Plastics industry is undergoing a lot of advancement just like all other industries. Focus on sustainability is driving demand for products that are energy efficient and environment friendly.

### How do you plan to scale up your business in the near future?

We already have a new green-field facility coming up right adjacent to our current factory in Ahmedabad. The company's growth over the years and the demand for our products and services has enabled us to undergo this expansion. We also are targeting other industries apart from plastics for our heat transfer range of products and hope that in coming five years, it will contribute 10-12 per cent of our revenues.



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## COMMUNICATION FEATURE

# Why choose Avians sectional overhead doors for industrial spaces

**A**vians sectional overhead doors have gained popularity as the preferred choice for industrial spaces, and for good reasons. These doors offer a range of benefits that make them stand out in demanding industrial environments.

**Durability and longevity:** Avians sectional overhead doors are built to last, designed to withstand heavy usage, harsh weather, and potential impacts. Their high-quality materials ensure longevity, providing a reliable solution for industrial entrances.

**Wind load resistance:** In regions prone to strong winds and severe weather conditions, wind load resistance is crucial. Avians sectional overhead doors are engineered to withstand high wind loads, providing peace of mind during storms and adverse weather events.

**Enhanced security:** Security is crucial in industrial facilities, and these doors excel in this aspect. They feature robust locking systems, making unauthorized access challenging and protecting valuable assets.

**Insulation and energy efficiency:** These doors can be insulated, regulating indoor temperatures and reducing energy costs. This environmentally friendly feature is vital for temperature-sensitive products and cost-effective operations.

**Customisation options:** Avians sectional overhead doors offer design flexibility, with various materials, finishes, and window configurations. This adaptability ensures a perfect fit for diverse industrial settings.



**Smooth operation:** Their precise and reliable operation minimises downtime, ensuring uninterrupted workflow in high-traffic areas.

**Low maintenance:** Minimal maintenance requirements keep costs and downtime at bay, making them ideal for busy industrial spaces.

**Compliance with industry standards:** These doors typically comply with safety and quality standards, ensuring a safer working environment for employees.

**Noise reduction:** Avians sectional overhead doors help reduce noise transmission, creating a quieter, more comfortable workspace.

In summary, Avians sectional overhead doors are the go-to choice for industrial spaces due to their durability, security, insulation, customisation options, reliable operation, low maintenance, compliance with industry standards, and noise reduction. By opting for these doors, industrial businesses can enhance security, energy efficiency, and operational efficiency while ensuring a safer and more productive working environment. Consider Avians sectional overhead doors as a reliable and long-term solution for the industrial space's entry and access needs.

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For details, contact Avians, Pune, on Mob: +91 83903 00400,  
Email: [sales@avians.co.in](mailto:sales@avians.co.in), or visit [www.avians.co.in](http://www.avians.co.in)

(Communication provided by the management of the company)



# “We are building solar-based storage solutions replacing DG set”

Statcon Energia Pvt Ltd has been an industry pioneer in power converter manufacturing for over 35 years decades. **Pranjal Pande**, Director, Statcon Energia in this interview speaks on the Indian companies developing manufacturing expertise of existing industrial products that are currently being imported. We are part of a growing and very vocal group of tech-companies who are promoting innovation and manufacturing in India, he adds.

## Kindly brief us about your company?

Statcon Energia is India's leading power electronics manufacturer with indigenised-designed products catering to solar, power, defence, railways, green hydrogen and EV charging segments. Operating for the past 35 years now, we have our large manufacturing facility (1,25,000 sqft area) in Pilkhuwa Hapur and corporate office in Noida, UP. In solar, we are India's largest manufacturing company in terms of capacity/volume. In defence, we supply India's largest load banks, rectifiers and frequency converters for the navy and have recently started exporting defence products to friendly countries as well. Statcon Energia manufactures a variety of power converter solutions. We experienced a growth of 56 per cent in the fiscal year 2022-2023, reaching Rs 130 crore. The current fiscal year, ending in March 2024, is expected to conclude with an additional 33 per cent growth, totalling around Rs 173 crore.

## How is your company contributing to the growth of the Indian manufacturing sector?

The Indian manufacturing sector needs an army of risk takers, and we are contributing in our own way, with a very wide range of indigenised products in the field of solar, power, defence, railways, hydrogen and EV charging. AC and DC power supplies of various ratings are the backbone of any industrial electronics products, and we specialise in high power ratings, from 1 KW up to few MW ratings. An ecosystem has developed utilising our technologies giving rise to growth in industrial IoT,



advanced battery chemistries, minigrids, virtual power plants and many more.

## What kinds of emerging trends are you observing in the industry today?

We are part of a growing and very vocal group of tech-companies who are promoting innovation and manufacturing in India. I see Indian companies developing manufacturing expertise of existing industrial products that are currently being imported. This change is visible across the industries with many bigger trading houses, starting dialogues to explore part manufacturing in India. There are govt schemes available already which help the companies offset some of the R&D

budget and as more and more companies develop an R&D mindset, the India dream will only grow further and further.

## Companies (including your customers) across industries are emphasising on sustainability. How is your company (with your products, technologies, solutions, services, etc) helping them meet their sustainability goals?

We are building solar-based storage solutions with the primary goal being elimination of DG set operating expense. If the diesel consumption becomes zero, the project has already become successful! From a product-supply-only mindset, we have now moved towards containerised all in one solutions, which are helping project companies in India to utilise these containerised solutions for off grid projects such as mining, road building, EV charging stations, mini grid electrification, disaster management areas, PHCs, and many more. Plus, emphasis is kept always on building affordable solutions with high value for money.

## Could you please highlight on some of the 'Green Engineering' solutions offered by you to your

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**Companies should rather focus on saving money and building value for their customers, which is 100 per cent possible with renewable energy without going in to fancy ESG Terminologies.**

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**customers in the industrial sectors?**

Our mini grid inverter supports various 'Green' inputs as sources including solar, biomass genset, wind and hydro turbine among others. Our solutions help prevent diesel usage while improving energy independence since they all include storage in the form of batteries. Our hydrogen MW rectifiers help bring down the costs of hydrogen unit generation leading to faster ROI for project developers. Plus to reduce overall emissions associated with global supply chains, we constantly aim for locally made raw materials wherever possible.

**Do you think 'green' or 'sustainability' is an effective brand building tool for companies?**

It is an effective tool only as far as optics goes. Companies should rather focus on saving money and building value for their customers, which is 100 per cent possible with renewable energy without going in to fancy ESG Terminologies. We have lakhs of satisfied customers whose electricity bill and diesel usage has come down, and who in turn become evangelist marketers for our products. Frankly, I know of very few companies for whom 'green' or 'sustainability' has led to increase in business.

We experienced a growth of 56 per cent in the fiscal year 2022-2023, reaching Rs 130 crore. The current fiscal year, ending in March 2024, is expected to conclude with an additional 33 per cent growth, totalling around Rs 173 crore.

**How do you plan to scale up your business in the near future?**

More and more effort has to be put in R&D as there is a growing scope for made in India products that can at least match or not surpass the current offerings in the market. We have spent a sizable amount over the past few years to develop the power electronics R&D dept in the company and hope to translate that into growth in the EV, hydrogen, defence and the energy storage sectors. We aim to reach around Rs 170 crore for this year and next year will definitely go beyond Rs 200 crore number.

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**NEWS SNIPPET**

## SMEs seek support from govt to embrace digitisation, sustainability practices vigorously

**T**he FICCI Report on SMEs in India was conceptualised to assess the awareness of and preparedness for digitalization and sustainability by small and medium enterprises from the manufacturing sector in India. It is based on a nationwide survey of more than 600 SMEs across 14 cities followed by focussed group discussions. The report highlights how SMEs are adapting to the digital transformation taking place and adopting sustainability practices; it identifies the challenges in this regard and, more importantly, makes specific recommendations on how to overcome them.

The survey reveals that SMEs have been utilising digital technology across different business functions, with 60 per cent of enterprises using digital tools for human resources, 51 per cent for sales and marketing, and 48 per cent for finance. The accounting software (such as Tally/Vyapar/Busy, etc.) and business applications like ERP and CRM were reported to be the most used digital tools by SMEs. What is noteworthy is that about 37 per cent of enterprises surveyed were also using cloud-based business applications such as IaaS, PaaS, SaaS, etc.

Most of the firms have experienced improvements in productivity and reductions in operational costs as a result of incorporating digital technology into their business functions. Approximately 35 per cent of respondents reported a reduction in their annual

operational costs by 11-20 per cent as a result of digitalisation. Another 30 per cent of respondents indicated that their annual operational costs had decreased by more than 20 per cent.

SMEs have also been leveraging e-commerce platforms and online marketplaces to reach a larger customer base and expand their market presence. These platforms provide opportunities for SMEs to showcase and sell their products nationally and globally. In terms of online markets and sales platforms, a significant 71 per cent of participating enterprises had their own online channels or sales platforms (such as a website to display or sell products).

Amongst the enterprises that reported selling through online channel(s), 24 per cent reported that more than half (50 to 75 per cent) of their overall sales came through online platforms like e-commerce platforms or own website. Another 39 per cent respondents reported that one fourth to half of their sales were through such online platforms.

The study also brings to fore some of the key challenges faced by SMEs in integrating technology in business functions, especially in on-boarding on e-commerce platforms. About 40 per cent of respondents highlighted lack of skilled resources and technological expertise required to effectively integrate and operate these technologies, as well as limited knowledge of business-specific technology solutions.

**IPF**



# “We are relocating to nearest industrial estate of Vadodara”

Parson Adhesives India Pvt Ltd is a research based adhesive manufacturer with wide range of products suitable for industries. **Bijay Kumar Nayak**, Managing Director, Parson Adhesives India Pvt Ltd in this interview says that with the better solutions that are safe for humans and the environment, we can count on us to reduce our carbon emissions and create more sustainable adhesives in the coming future. The company is also looking to upgrade sales and marketing staff's skills to match their capabilities with latest technology-driven strategy.

## Kindly brief us about your company in terms of when it was started, products/ services manufactured/offered, manufacturing facilities, end-user industries served.

Parson Adhesives India Private Limited is a business unit of Parson Adhesives, Inc, USA. Parson Adhesives is one of the leading manufacturers of a wide range of high-performance engineering and structural adhesives and sealants. The Parson range of adhesives is currently used by many large companies in the USA, Germany, France, Italy, the UK, Turkey, Brazil, Mexico, China, Taiwan, and India, having a presence in 56 countries for more than three decades. The major manufacturing activities are conducted at Evansville, USA.

Parson Adhesives is one of the few companies that have various types of high-performance engineering and structural adhesive technologies. These include anaerobic, cyanoacrylate, acrylic and methacrylate, epoxy, polyurethane, UV-curable adhesives, silicone, and special polymer-based sealants. Our research scientists work tirelessly to evolve newer products to meet application challenges. Looking beyond the future, our technical team continuously produces innovative adhesive products to meet a wide range of applications. Efforts 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 its presence in various industrial segments and applications every year. Parson's R&D team is involved in developing different adhesives and sealants solutions for industries after identifying their concern areas.

Parson Adhesives provides value-added solutions with effective cost reduction in processes without compromising quality and complying with international standards as per



customer demand.

All major industries with assembly lines or manufacturing lines are users of Adhesives and Sealants. These include automotive, renewable energy (especially wind mill and solar mounting), engineering, oil and gas, electronics, machine manufacturers, medical device manufacturers, marine, aerospace, defense, sporting goods, display & sign boards, railways, plastic and metal fabrication, composite component manufacturers, bath fitting industry, general assembly, etc.

## How is your company contributing to the growth of the Indian manufacturing sector?

Over the last two decades, the manufacturing sector's contribution to the GDP has remained unchanged at 17 per cent. The Indian manufacturing sector needs to gear up through expansion, diversification, technological advancement, competitive scaling up, and skill enhancement. There is a need to improve all three performance indicators, namely productivity, efficiency, and competitiveness, in India's manufacturing sector.

Innovation is key to the growth of adhesives and sealants. We contribute to the manufacturing sector by adding the following values:

- Increase product performance
- Increase design flexibility
- Increase product quality
- Enhance product aesthetics
- Improve process productivity and reduce manufacturing costs

## How is your company helping firms preferring for sustainable products and solutions?

Sustainability is becoming a significantly important driver of choice for employees and customers. In the last couple of years, several large companies have

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**Parson experts have succeeded in developing adhesive technologies without isobornyl acrylate. Our adhesives are dermatologically safe and free of allergenic ingredients.**

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announced climate pledges, environmental goals, social responsibility initiatives, and other CSR plans with the hope of attracting customers and creating a positive reputation.

People are the foundation of our businesses. We are committed to creating an engaging, healthy, sustainable, and welcoming workplace for all. We are committed to improving operational efficiency and lowering costs. We have concerns around attracting, motivating, and retaining employees. We are developing working plans for key areas, including supply chain, employees, and the environment.

The change in strategy not only meant that the business became more sustainable but also more efficient, delivering bottom-line benefits.

**Could you please highlight on some of the “Green Engineering” solutions offered by you to your customers in the industrial sectors?**

Growing concern for the environment, increasingly stringent standards for the release of chemicals into the environment, and economic competitiveness have led to more environmentally friendly approaches that have resulted in greater pollution prevention through waste reduction and efficiency maximisation.

Currently, the majority of the world’s energy is supplied through petrochemical sources, coal, and natural gas. However, the depletion of fossil fuels, increasing energy demand from various sectors, global warming, environmental pollution due to the widespread use of fossil fuels, and price fluctuations make petroleum-based energy unreliable. Therefore, it is increasingly necessary to develop renewable energy resources to replace traditional sources. We provide bonding and sealing solutions through our structural adhesives and sealants to renewable sectors.

Our UV-cured adhesives and sealants use the sun’s natural ultraviolet light to activate the bonding process, eliminating the need for solvents or other harmful chemicals. Since they do not contain VOCs (Volatile Organic Compounds), they are considered much less harmful and a viable eco-friendly alternative. These adhesives are commonly used in the electronics and automotive industries, where they help secure small components and parts. UV-cured adhesives offer fast bonding times and can be used on a variety of materials, including glass, metal, and plastic. They may also be used in electrical, construction, and life sciences applications.

Our solvent-free adhesives are considered a more sustainable alternative to traditional solvent-based adhesives, which release harmful VOCs into the atmosphere. Solvent-free adhesives are typically made from materials such as acrylic or epoxy, which require

fewer solvents to activate the bonding process. These adhesives are also non-flammable and non-toxic, making them an excellent choice for indoor applications where air quality is a concern.

In addition to the adhesives themselves, sustainable solutions can also involve changes in application techniques and equipment. For example, switching to automated adhesive dispensing systems can help minimize waste and ensure accurate adhesive application, while also reducing the amount of labor required.

Better solutions that are safe for humans and the environment – we can count on us to reduce our carbon emissions and create more sustainable adhesives.

With over 30 years of pioneering adhesive solutions in the hygiene market, Parson Adhesives knows what matters to customers. At Parson Adhesives, we recognise the power in having a partner with problem-solving capabilities and global research and development capabilities. We deliver the solutions that enable the product designs your customers want, as well as the end-to-end support the business needs.

Parson experts have succeeded in developing adhesive technologies without isobornyl acrylate. Our adhesives are dermatologically safe and free of allergenic ingredients.

**How do you plan to scale up your business in the near future?**

At Parson Adhesives, we are building a strong foundation for the future with smart, innovative technologies, through a highly dedicated team, as well as high cash generation capabilities and over 100 per cent growth in sales.

In order to further strengthen our competitive edge, Parson Adhesives will focus on accelerating impactful smart innovations, being passionate about quality, boosting sustainability, creating plans for realistic goals, strategizing to increase sales, expanding our team according to needs, and developing processes for acquiring new customers as a differentiating factor and a customer value creator. Additionally, we are working to reduce delivery costs, exploring sales cost reductions, accelerating the development and introduction of new products, increasing market share, enhancing profitability, improving sales closing, and maintaining a strong focus on new product development.

Parson Adhesives was established in 2013 in India and started exporting to nearby countries including Nepal, Bangladesh, Sri Lanka, Russia, etc. Parson Adhesives India is relocating to a larger space in the nearest Industrial Estate of Vadodara city and is planning to expand the business by 250 per cent in 2024.

Last but not least, we need to upgrade our sales and marketing staffs skills to match their capabilities with our technology-driven strategy. This will create a win-win situation in 2024 and beyond, with a proactive approach.

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# “Daftech Engineers’ focus for 2024-25 will be Latin America”

Daftech Engineers Pvt Ltd is a wastewater clarifier company that meets the needs of clients all over the world for dissolved air flotation (DAF) clarifier. Since its inception, the company has been continually improving the design of its circular DAF units known as Floatcells. Today, Daftech is known for its expertise in design, installation, operation, maintenance and troubleshooting of DAF water clarifier around the world over. In this interview, **Shaju Peter**, Marketing Director, Daftech Engineers Pvt Ltd, highlights the importance of DAF clarifier in treating wastewater and green manufacturing.

## Kindly brief us about Daftech Engineers and its offerings to the industry.

Incorporated in 2001, Daftech Engineers Pvt Ltd is one of the leading manufacturers of circular DAF clarifiers with 3 minutes retention in India.

Daftech today has clients in pulp and paper, dairy, edible oil, pharmaceutical, fish processing, meat processing, waste oil processing, textile, carbon black, non-woven, food processing, PVC and a variety of other industries. The technology is also used for secondary clarification and has applications in the treatment of ice cream effluents, laundry effluents, kitchen effluents and car washing besides sewage.

Daftech Floatcells have been exported to USA, Colombia, Peru, UAE, Saudi Arabia, Oman, Iran, Mauritius, Sri Lanka, Bangladesh, Philippines and Malaysia. Daftech serves its customers with a well-equipped factory in Dera Bassi in Punjab. The equipment is offered in PU-coated mild steel as well as all grades of stainless steel depending on the application.

## How is Daftech contributing to the growth of the Indian manufacturing sector?

The technology of Dissolved Air Flotation came to India in 1982 for primary treatment of industrial wastewater and recovery of fibre from white water of paper machines. Since then, the clarifiers based on this technology are being manufactured in India.

Corporates are becoming increasingly aware of their social responsibility for a clean environment and water conservation. I do see a healthy willingness to try out new technologies in the market for wastewater treatment.



## What kinds of emerging trends are you observing in the industry today?

Corporates are becoming increasingly aware of their social responsibility for a clean environment and water conservation. I do see a healthy willingness to try out new technologies in the market for wastewater treatment.

## Companies across industries are emphasising on sustainability. How is Daftech helping its customers to meet their sustainability goals?

Customers nowadays are demanding more eco-friendly/sustainable products. We do help pulp and paper sector to conserve water and recover valuable fibre from waste stream originating from paper production. In other industries, we do play our role in cost-effective clarification of wastewater in the primary mode.

Customers nowadays are demanding more eco-friendly/sustainable products. We do help pulp and paper sector to conserve water and recover valuable fibre from waste stream originating from paper production.

We also think that ‘green’ or ‘sustainability’ can be an effective brand building tool for companies.

## How do you plan to scale up your business in the near future?

We have installations worldwide, in almost all continents. Our focus for 2024-25 will be Latin America.



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# “Sustainability is relative, cannot be applied randomly to every industry”

Arcraft Plasma Equipments designs and manufactures a diverse range of plasma cutting machines, welding automation equipments, metal cutting and hardfacing equipment with integrated automation. With many firsts and import substitutes, Arcraft is well recognised as a solutions provider then just a manufacturer. **Prasad Marudkar**, Director, Arcraft Plasma Equipments (India) Pvt Ltd in this interview expresses his concerns over sustainability, waste management and basis standards development in the country with respect to the growing industrial developments over the period of time. India needs to be first in making trends instead of looking at the west, says Marudkar.

## Kindly brief us about your company

Arcraft although a name linked as a peripheral of fabrication industry, it has emerged as one of the most admired name in the field of hardfacing & cladding. With many firsts and import substitutes, Arcraft is well recognised as a solutions provider then just a manufacturer.

Any field where there is a challenging environment for the metal to sustain in service life, the name of Arcraft enters by default. There is hardly any industry where Arcraft has not provided services. Most prominently recognised sectors like oil & gas, automobiles, aviation to name a few where Arcraft has strong foothold be it India or overseas. We have a significant presence in Middle East, African continent, Asia-Pacific region with good presence in Latin America as well.

## How is your company contributing to the growth of the Indian manufacturing sector?

To mention honestly welding or fabrication industry is not part of the group of sectors recognised as the vital assets of the country. Let us not discourage ourselves but India does not have its own code/standards of fabrication (not to mention Boiler Code 1950). Being 5th largest economy with largest scope of Infrastructural and Industrial grown we still depend upon American or European codes/standards instead of our own. Mining is a sector where the origin of all fabrication is, however



mining is well recognised but fabrication is not. It is very difficult to comment on how fabrication and welding industry will contribute to the growth of Indian manufacturing industry unless the sector comes in category A from its present level of C or D.

## What kinds of emerging trends are you observing in the industry today?

My sincere apologies but ‘Rat Race’ is an emerging trend. As a part of Global Village what is our standard of quality is a matter of dispute. From the core of our studies in school we have been taught to be book worms and work on papers more than hands on experience. We can make best of the

documents but we fail to make best of implementation. What emerging trends India has developed on its own is a big question mark. We need to be first in making trends instead of looking at the west. Automation, AI, green energy, zero carbon etc is present trends the world wish to work with. With 1.5 billion population to feed and limited resources can India walk on the same path of developed countries?

Lack of basic educational facilities to the deepest part of the country is evident due to average literacy rate lower than that of the world. The growth, trends are glorified terms limited to metro cities and II tier towns. Lower the tier and the villages, we lack even basic electricity and even if it is there its availability 24x7 is questionable.

Developed country is not only the per capita income but relates to education to all and to the choice, sense of country first, discipline but many more factors play a very important role in setting trends.

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**Customers do insist on environmental friendly products and we do implement it as and where possible without compromising on standards and quality.**

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**Companies (including your customers) across industries are emphasising on sustainability.**



Being 5<sup>th</sup> largest economy with largest scope of Infrastructural and Industrial grown we still depend upon American or European codes/standards instead of our own. Mining is a sector where the origin of all fabrication is, however mining is well recognised but fabrication is not.

### **How is your company (with your products, technologies, solutions, services, etc) helping them meet their sustainability goals?**

The field of metal surface treatment has a very limited scope of sustainability. However, there is a large amount of waste generated during or after fabrication and welding process. It starts with the smoke, dust etc and ends with lot of junk or scrap in form of metals. Waste management is a vital factor we need to focus upon. Lean management addresses minimum waste however this is applicable in case of mass production.

Consider making metal structures used in infrastructural systems like bridges, airports, railway etc where major focus is on the convenience of the common citizen but at what cost. Lean management and sustainability fails here. Focus on health hazards is something we are neglecting. Humans are being treated as robots be it any industry. Healthy individual makes healthy country. Sustainability is relative and cannot be applied randomly to every industry. It needs to be balanced with the employment and growth.

### **Could you please highlight on some of the Green Engineering solutions offered by you to your customers in the industrial sectors?**

Let us take an example of battery operated car which is today's most prominent 'Green Engineering.' A time will come where millions of batteries will become nonfunctional once their service life is over. What plans do we have in place to address this issue? At least today, nothing. A major concern a few decades ago was of e-waste management.

Still we do not have good policies in place to handle this. And even if it is there is our population disciplined enough to follow it. Our contribution to green engineering is reducing the power consumption, something we are focusing on be it production, products, services etc. Eco-friendly paints, replacing plastic packaging, economising on usage of consumables are a few steps we

There is a large amount of waste generated during or after fabrication and welding process. It starts with the smoke, dust etc and ends with lot of junk or scrap in form of metals. Waste management is a vital factor we need to focus upon.

have worked upon as our micro contribution to the green engineering.

### **Are your customers (especially big companies/MNCs) demanding more eco-friendly/sustainable products (solutions) nowadays?**

Yes, as well as no. As mentioned, there are few cases where sustainability and green engineering may not give the expected results. And even if it gives the cost of maintaining it, is so high that the product made out of it becomes commercially unviable. When it comes to our industry especially hardfacing where if compromises are done on quality it may lead to a disaster while using products like flow control valves, safety devices etc. Yes, customers do insist on environmental friendly products and we do implement it as and where possible without compromising on standards and quality.

### **What measures are you taking to reduce your carbon footprint across your manufacturing value chain?**

Again, fabrication is all about metals. What kind of carbon footprint is applicable there. Mining, foundries, steel mills cannot really function if they try to reduce carbon footprint. However when it comes to management of assets there is a large scope of reduction in CFP with office automation, ERP etc.

When it comes to our industry especially hardfacing where if compromises are done on quality it may lead to a disaster while using products like flow control valves, safety devices etc.

### **Do you think "green" or "sustainability" is an effective brand building tool for companies?**

For a few sectors, absolutely yes. Let's take simple example of power generation. Nuclear, thermal, hydro, gas, solar, wind are sources. Each process has its pros and cons. So which is the best? This will depend upon the geographical location, resources, atmosphere etc. Policies and consumption shall decide which country uses what source of energy generation and management. There cannot be blanket green or sustainability all over the world.

### **How do you plan to scale up your business in the near future?**

Scaling up may have different dimensions from product to product. Every product has its phases of ups but eventually it will be out of relevance one day. Novelty, improvisation, efficiency, quality, service these are few pillars of strong business. However, R&D is something we cannot really claim as our genes.



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# “Remswegs Marketing expects to grow by 30% in 2023-24”

...Says **Nitin Sethi**, Director, Remswegs Marketing Pvt Ltd, Indore. In this interview, he highlights the challenges in the market and the company's growth plans.

## Kindly brief us about your company.

We are a leading distributor & representative for hydraulics components, power packs, oil filter machine, welding machine, cutting machines, special welding alloys, Timken bearings, lubricants, etc. Established in 1996, Remswegs has a long term relationship to most of our customers & suppliers.

Our customers, from small local companies to big International players, are mainly original equipment manufacturers (OEMs) in the sectors of mechanical engineering, construction equipment, mining machines, agriculture equipment, material handling, truck & bus industries, machine tools, plastic industries, batching plants, defence industries, hydel projects, wind mills, steel mills, etc. We are manufacturing hydraulic power pack, hydraulic cylinders, oil filter & transfer unit as per customer requirement.

We expect to grow by 30 per cent in 2023-24 compared to the previous year.



## How is your company contributing to the growth of the Indian manufacturing sector?

To provide prompt & ex-stock deliveries, we maintain inventory for our all regular customer and sectors with best technical services, which help them find substitutes of imports and indigenous hydraulic components.

## How is the market at present?

Amid volatility, the market is witnessing many ups and downs.

## What kinds of “Green Engineering” solutions you are offering to customers?

Panasonic welding and cutting machines, which we offer, help in green engineering.

## How do you plan to scale up your business in the near future?

With our aggressive approach, we are very much optimistic about our future growth.



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## NEWS SNIPPET

# Cee Dee Industries commits to green engineering

**T**he Bhopal-based Cee Dee Industries manufactures various types of hoses which are used in numerous applications. Some of the products offered by the company include industrial hoses, hydraulic hoses, metallic hoses (corrugated and interlock), PTFE hoses, PVC pipes, rigid pipes, fittings and bends. With sustainability gaining traction across industries, Cee Dee Industries is also opting for green engineering to boost business. “In our commitment for ‘green engineering’, we have installed a 25kw solar plant on our roof. Cee Dee uses water with coolants, which has reduced its water requirement by 15 per cent. As part of sustainability measures, it is replacing old lights with LEDs and it reuses



most of the packing material of plastic, paper and wood,” commented **Vikas Prakash**, Director, Cee Dee Industries.

Cee Dee Industries has been able to sustain ups and down of the market for the past 40 years because of its robust working system. “The main points of our focus are on time delivery, never to beat quality and no one can match prices. The company’s firm commitment has also helped it gain the confidence of all clients and vendors - both of which are important,” he stated.

Speaking about the future plans, Vikas Prakash said, “We are working with our present clients to develop new products. We are also looking at growing exports business by taking help of export promotion councils.”

**IPF**



# Safety of machinery: Connectivity makes the difference

Integration, networking and linking are important trends in automation technology. Both a machine's manufacturer and user can reap the benefits of digitisation, such as increased productivity, easy adaptation to individual requirements and improved error diagnosis.



For many decades, there was only one decision that needed to be made when it came to integrating safety switchgear devices into a machine's safety circuit – series wiring or parallel. There is now a range of additional options for networking and integration, including fail-safe bus systems, safety fieldboxes and diagnostic fieldboxes. Designers now have a much wider selection to choose from, and need to consider what's important.

## Tried and tested, and good: the safety bus

Safety bus systems are amongst the solutions that have stood the test of time. A widely used system is the AS-Interface Safety at Work (ASi SaW). Many device series from Schmersal are available with integrated connection for this bus system; the others can be connected via separate interface modules.

Benefits of this system include the capability to transmit operational and safety signals via yellow ASi flat-ribbon

cables. For system manufacturers, this means reduced installation effort and more flexible configuration, while for operating companies, it means more comprehensive evaluation of the operating states of safety switchgear devices.

The AS-i-Safety standard not only facilitates rapid installation with minimal wiring effort, but also maximum flexibility, for example in the event of system modifications or new requirements and safety requirements. Another advantage is the comprehensive range of diagnostic functions. These make for more rapid identification of the source of error in the event of irregularities or faults. This is particularly beneficial in the case of extensive, complex systems, and can help to reduce downtimes significantly. However, a safety bus can offer benefits for compact machinery with just a few safety switchgear devices and functions as well.

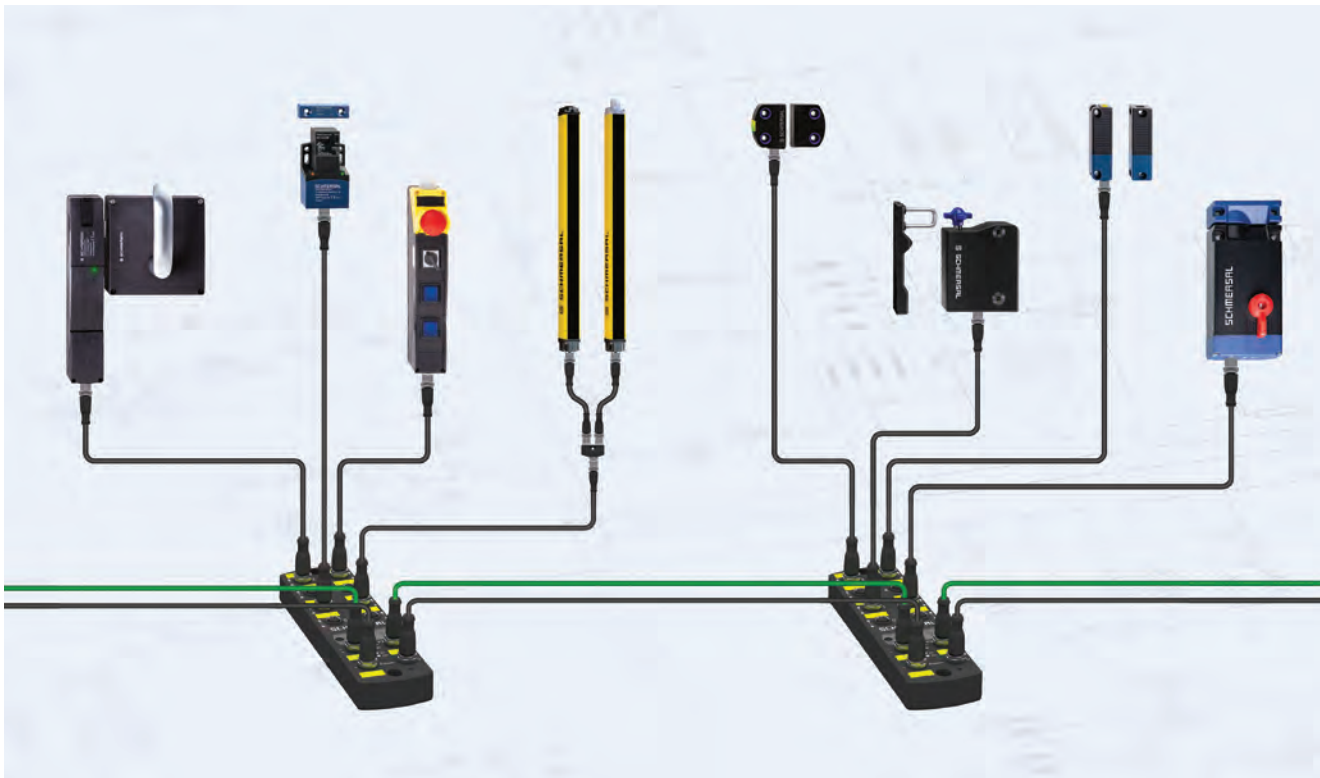
## Continuous communication from switchgear to higher levels

Schmersal's SD bus for the capture of operational data, including switching cycles, limit value warnings and distance warnings, is also well tried and tested. In its latest incarnation, designated SD 4.0, these data are captured via a single-wire bus (SD bus for serial diagnosis) and transmitted to an SD gateway or the modular Protect PSC 1 safety controller on a cyclical basis. This creates the prerequisite for clearly simplified networking with higher levels – up to OPC UA as a standardised protocol for M2M communication.

This form of networking has the advantage of better visualisation of diagnostic information collected in the field, and better access via mobile devices such as tablets and smartphones. The SD gateways are the connection point between the Schmersal SD bus and the traditional fieldbus or an M2M interface, which permit clear visualisation, such as part of a predictive maintenance concept. A specific example: irregularities, such as a misaligned guard door, are displayed to the user so that he can intervene immediately. This helps to improve system availability and to minimise the risk of downtime. In addition, it also enables 'lean', cost-saving wiring of as many as 31 safety switchgear devices.

## New SD fieldbus gateway with integral web server

Considering these many benefits, it should come as no surprise that Schmersal is working tirelessly to expand this



Different types of safety switchgear device can be connected in series via SD 4.0

family of products. The SDF Fieldbus Gateway, a new variant that transmits its signals to the machine controller via fieldbus, was showcased at SPS. In addition, the newest SD gateway is also equipped with a web server and a microSD card. This allows the user to evaluate event logs live via the web interface and to read out the entire diagnostic data of all connected safety switchgear devices in plain text in the browser. Moreover, devices, such as solenoid interlocks and control panels, can also be controlled directly via the web interface.

## Open to other fieldbus systems: the Safety Fieldbox

Apropos fieldbus: the 'Safety Fieldbox' system developed by Schmersal allows for connection of up to eight safety switchgear devices of different types (electronic and electromechanical solenoid interlocks, sensors, control panels with emergency-stop function, light curtains, etc) in the field. This helps to reduce costs, especially as the electromechanical and electronic terminal devices only occupy a single device connection each. Both the safety and operational signals are captured and connect to a higher-level control module, such as a safety PLC, using plug and play.

This could previously be achieved only with the PROFINET/PROFIsafe protocol, the bus system that is most commonly used in Europe. A version with Ethernet/IP-CIP safety interface has also been made available recently. Schmersal showcased the newest version of its Safety Fieldbox with EtherCAT FSoE at SPS. This now allows the designer to plan the safety functions of a

machine into a project independently of the fieldbus system that is used, as the three versions together cover the most commonly used control systems globally.

## Three solutions, common objectives

The three wiring concepts outlined here are simple, cost-effective solutions that can be installed using the plug and play principle. Additionally, these solutions offer



A new SD Gateway with fieldbus connectivity and web server





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extreme flexibility when it comes to adapting the individual safety requirements of complex systems and machinery. Moreover, additional transmission of all diagnostic signals from connected devices ensures optimal process transparency. Plus, increasingly important as an argument is the fact that fewer cables are required, which means that bus systems and network solutions can help to reduce the use of resources like plastic and copper.

### Prospect: new networking concepts, and the elimination of wiring

Since mechanical engineers are, with good reason, switching to alternative wiring and networking concepts, these systems are undergoing continuous development, and more and more terminal devices are being equipped with the corresponding interfaces. Seen from Schmersal's perspective, the outlook for the near future includes new versions of the SD Gateway, with additional functions as well as in combination with safety switchgear devices.

### The development continues

If one thing is obvious it is that networking or connectivity will keep pushing ahead – at a higher level and with new features. One such example, and it's not the only example, is the 'digital type plate' of every product in the field and in the control cabinet. In the



Range expansion: a new Safety Fieldbox also communicates via the EtherNet/IP with CIP Safety and EtherCAT with FSoE bus systems

future, this type plate will not only be stored in the machine's documentation as part of its digital twin, but will also be retrievable via the M2M interface. This will help to facilitate machine servicing and improve transparency. Connectivity makes it possible.



**IPF** Scan to read online

# Igus launches bionic hand for ReBeL cobot

The company added a humanoid hand made of lubrication-free high-performance plastics to its ReBeL product range.



Igus has developed a finger gripper for the ReBeL cobot. The ReBeL can perform a variety of simple humanoid tasks with the new low-cost robotic hand.

**R**obots have become an integral part of industry and are increasingly finding their way into small and medium-sized companies in the form of cobots, such as the ReBeL. They sort, pick and move with the help of cameras, suction devices and gripper systems. Igus has now developed a finger gripper for the ReBeL cobot so that it can also perform humanoid tasks. It is made entirely of lubrication-free plastics, and is therefore very cost-effective and easy to integrate.

With the ReBeL, igus has brought a compact and lightweight cobot onto the market, which allows for a cost-effective way to start working with robotics. It is ideal for assembly tasks, quality inspections and jobs in the service sector. So that the robot can actually perform tasks, it requires grippers and suction devices. For this purpose, igus offers a wide selection of suitable end effectors from various manufacturers on the RBTX.com marketplace.

"As the ReBeL is very light and inexpensive with a weight of around 8 kilogrammes and a price starting at Euro 3,970, it is often used in humanoid applications. For this reason, we have received several customer requests for a robot hand that can be easily connected to the ReBeL via plug and play," explained **Alexander Mühlens**, Head of the Low Cost Automation Business Unit at igus GmbH. This is why igus has now developed a particularly cost-effective ReBeL finger gripper, which is available for as little as Euro 1,840.

The humanoid hand is compatible with all ReBeL models. It is controlled via DIO at the tool centre point,

making it easy to integrate and suitable for various applications. The special feature of the finger gripper is that it can imitate a person's hand movements. "The ReBeL can take on a wide range of simple humanoid tasks and applications with the new low-cost hand. We are thinking of such fields as research and development at universities as well as tasks in the catering or entertainment industries," said Mühlens.

## Precise movements thanks to high-performance plastics

All components, including the flange, cables and control unit, are provided directly from igus in Cologne. This gives the customer a solution that is 100 per cent compatible.

Lubrication-free high-performance plastics keep the price low. The plain bearings in the joints made of iglidur polymers are not only cost-effective and lubrication-free, but also ensure smooth and precise movements of the individual fingers. Extensive tests in the company's own 3,800-square-metre laboratory guarantee the longevity of the humanoid hand. They are extremely flexible and can be controlled via various interfaces, including USB, TTL (5V) serial and internal scripting. In addition to the finger gripper, igus offers other products for the ReBeL environment. These include, for example, fire-resistant smoke hoods, a 7th axis, gripper sets, adapter plate sets, energy supply systems, a finished workstation and connection cables.

Igus GmbH develops and produces motion plastics – the lubrication-free, high-performance polymers that improve technology and reduce costs wherever things move. In energy supplies, highly flexible cables, plain and linear bearings as well as lead screw technology made of tribo-polymers, igus is the worldwide market leader. The family-run company based in Cologne, Germany, is represented in 31 countries and employs 4,600 people across the globe. In 2022, igus generated a turnover of Euro 1.15 billion. Research in the industry's largest test laboratories constantly yields innovations and more security for users. In recent years, the company has expanded by creating internal startups, e.g. for ball bearings, robot drives, 3D printing, the RBTX platform for Lean Robotics and intelligent "smart plastics" for Industry 4.0. **IPF**



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# Detecting air leaks using acoustic imaging cameras

An acoustic camera effectively detects air leaks across various industrial settings and provides immediate cost assessments, ensuring a rapid return on investment (RoI).



their production processes. Or, at the very least, think twice about buying such a specialised piece of equipment in fear that the benefits of using it will not be able to match the money spent on its acquisition. This article introduces the results of inspections carried out at two different industrial environments, where an acoustic camera proved highly beneficial in delivering improved energy efficiency and reduced costs related to early detection of expensive specialty gasses, leading to the return on investment (ROI) achieved within a short period of time.

## Reaping the benefits of pinpoint accuracy

A common phenomenon in manufacturing facilities, compressed air, and gas leaks are known to cause substantial financial losses and reduce operational efficiency. Acoustic imaging is the ideal method for efficient air leak detection in many types of industrial environments, as it instantly reveals hidden leaks and delivers real-time estimates of their costs, leading to a speedy return on investment.

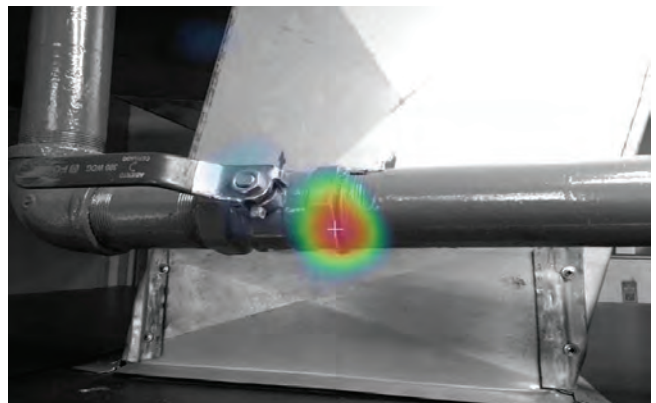
Companies unfamiliar with the power of acoustic imaging as a predictive maintenance method may have concerns about an acoustic camera's ability to accurately detect and diagnose issues due to the sheer scale of their manufacturing facilities or the unique characteristics of

Many industrial facilities are vast, covering an area of thousands of square meters and containing large amounts of heavy machinery. This often makes conducting predictive maintenance inspections inaccurate and inefficient, both problems that the acoustic camera is exceptionally well equipped to tackle.

One manufacturing company was interested in utilizing acoustic imaging but worried that the large, 6,500 m<sup>2</sup> size of their facility would make accurate air leak detection challenging and purchasing the camera unprofitable. During the inspection visit, the acoustic camera was immediately able to identify 155 leaks in the compressed air system, estimated to be causing losses



FLIR Si124 Acoustic Imaging Camera



An air leak invisible to the naked eye detected by an acoustic camera

amounting to approximately \$ 11,000. The leaks occurred within just a 6-hour inspection period, which is equivalent to identifying a leak every 2.5 minutes. Given the results, the ROI on the acoustic camera acquisition was estimated to be achieved within 2 service rounds in approximately 4 to 6 months, making the acquisition of the acoustic camera worthwhile.

## Major savings through specialty gas leak detection

An acoustic camera was also used at an automotive plant in a quest to locate not only compressed air leaks common in the industry but also specialty gasses, such as Argon and CO2. Specialty gas leaks tend to be especially costly, as their market price is determined by demand and amplified due to being purchased from a supplier. In an area where the specialty gasses were stored and mixed, a total of 5 leaks were instantly detected by the camera, and their exact locations were displayed on the screen.

Snapshots were then taken and uploaded on-site to the accompanying cloud software, where the costs were estimated in real-time. The inspection took only 10 minutes, but the annual savings calculated for just the 5 specialty gas leaks amounted to approximately \$ 12,500. Considering the size of the facility, the improved energy efficiency achieved through detecting and fixing air leaks, and the savings provided by the early detection of the



FLIR Thermal Studio Suite with the Si-Series Plugin

specialty gas leaks, the ROI on the acoustic camera acquisition was estimated to be achieved within just 2 months.

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For more information about acoustic imaging cameras or about this application, please call us at +91-11-4560 3555 or write to us at [flirindia@flir.com.hk](mailto:flirindia@flir.com.hk) or visit: [www.flir.in/si124](http://www.flir.in/si124)

## NEWS SNIPPET

# Mahindra Susten awarded water positive certification

**M**ahindra Susten - a leading renewable independent power producer (IPP) with in-house expertise in engineering, procurement, and construction (EPC) - has been awarded the prestigious 'Water Positive Verification' certificate for its 100-per cent operating portfolio for the assessment year FY23. The accreditation, granted by esteemed certification authority TUV India (TÜV NORD GROUP), recognises Susten's commitment towards planet-positive initiatives and water resource conservation. This recognition comes after a thorough audit of all project locations in five states: Rajasthan, Gujarat, Madhya Pradesh, Telangana, and Andhra Pradesh. As per TUV India's evaluation, Susten's +1.5 GWp of renewable energy portfolio commands a score of 15 (Positive) on the Water Footprint Index implying that water recharged is 15 times over what was consumed.

Deepak Thakur, MD & CEO, Mahindra Susten, said, "Mahindra Group aims to be Planet Positive by 2040. Mahindra Susten is making steady progress in steering the Group towards this shared goal. While the solar sector is critical for meeting the world's renewable energy needs, it has traditionally been water-intensive, which goes against sustainability norms. This is primarily attributed to the constant need for cleaning solar modules to minimise soiling loss and mitigate module performance-related



impacts. We have taken a major step towards establishing sustainable operations by having a 100 per cent water-positive portfolio."

He added, "Susten's dedication to sustainability, aligned with our core purpose of 're-imagining clean energy, empowering lives,' serves as a guiding principle in the development of our renewable energy projects. We will actively contribute to a more sustainable and water-positive future. We shall always remain committed to our mission of setting benchmarks for responsible corporate practices and fostering a Planet Positive future."

The "Water Positive Verification" certificate signifies Susten's holistic approach to environmental stewardship and the preservation of this vital resource.

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# Sam Products promotes energy efficient solutions

Sam Products was established in 1992. The company started with air curtains and slowly added products related to clean room such as air shower, laminar flow bench, pass box, etc. Customer loyalty, experienced staff, working environment, quality product, and strong feedback system ensured regular growth of the company, says **Sanjay Batra**, Director, Sam Products Pvt Ltd, in this interview.

## How is Sam Products serving the Indian manufacturing sector?

Indian industry has been constantly fighting against all odds, whether it was imported products or better quality products or cheap products or products through aided schemes. Yet Indian industry has survived and now is poised to be the third largest and second fastest growing economy in the world. Patience has been the key along with urge to do well or the best.

In line with above school thought Sam Products team has been constantly working to be ahead of the competitors whether from China or Europe. For example one of the products, air shower, used to be tailor made. Over the period, we have developed standard sizes. This assists the end-user (our customer) to select directly the product required, thereby saving time and ensuring better planning at his location.

## What are the key trends in the industry today?

With growing awareness & increasing need of comfort, the regulator is more concerned about safety and health issues. This has changed the mindset of Indian industry. Now, the products are more individual requirement oriented; thus, encouraging innovation. The industry is not maturing as some may say, but opening more avenues with better options.

## How is Sam Products helping its customers to meet their sustainability goals?

Sam Products has been associated with sustainability for long. We provide regular solutions for energy efficiency to our customers. Our machines are upgraded to IE3 motors. Now, we plan to proceed to IE5 in next four months. We are more transparent in our operations.

## What kinds of “Green Engineering” solutions you offer?

Sam Products promotes energy efficient solutions to its customers. This includes light weighting designs or energy savings equipment or for reducing packing waste.



Since our products are directly linked to clean rooms, we assist our customer shop floors to reduce pollutions levels or maintain dust levels on their product floors. We also assist our customer to repair or refurbish products.

## Can ‘sustainability’ be an effective brand building tool for companies?

It is the prime responsibility of public, government, environmental groups & industries to together be stakeholders to preserve the environment - whether it is resource consumption, emissions, pollution, waste generation, land use, noise pollution, etc. While the government

can be a good regulator, the industry can be the key players to move from pollution control to pollution prevention. This can be achieved by implementing sustainable practices or contributing to environment conservation efforts. Indian industry needs to use renewables, opt for 3Rs (reduce, reuse & recycle), ensure efficient disposal of waste, follow responsible production practices and engage with community. Live example today is Hindustan Unilever's plan to achieve net zero by 2039. Today, ‘Green’ or ‘Sustainable’ is a very strong tool for an effective brand building.

## How do you plan to scale up your business?

According to my father, sky is the limit, which I also believe in strongly. This holds true for any businessman. The more you indulge in your work, more satisfaction you achieve and more you wish to grow. We have plans to invest more in automation and for efficiency improvements. As we want to explore the exports market, we will develop new products or alter our existing products. We will go ahead with partnerships and comply with international regulations.

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For details, contact Sanjay Batra, Director,  
Sam Products Pvt Ltd, Greater Noida (UP), on  
email: Samproducts1992@gmail.com

(Communication provided by the  
management of the company)



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# Avians' high speed doors for fast & efficient entrance solutions

Avians high speed doors with the CE standard are designed to provide durability and speed, making them suitable for both indoor and outdoor use in sheltered areas with low wind loads and moderate temperatures.

**W**hen it comes to busy doorways that require safe, fast, and efficient operation, Avians high speed doors with the CE standard are the ideal choice. These doors are designed to provide durability and speed, making them suitable for both indoor and outdoor use in sheltered areas with low wind loads and moderate temperatures. With high tear tensile strength PVC material, Avians high speed roll-up doors offer exceptional quality and performance.



## Features that set Avians high speed doors apart

Avians high speed doors come packed with features that make them stand out in terms of functionality and convenience. Here are some key features of these doors:

- ❑ **High speed of opening and closing:** With a speed range of 0.8-2.0 meters per second, these doors ensure quick access while maintaining safety.
- ❑ **Transparent PVC parts:** The doors can be customized with transparent PVC parts of various sizes and numbers, allowing visibility and natural light to pass through.
- ❑ **Wide range of RAL colors:** Avians high speed doors are available in a wide range of RAL colors, enabling customisation to match the aesthetics of any facility.
- ❑ **High-speed heavy-duty motor:** The doors are equipped with a robust and efficient motor that ensures smooth and heavy usage operation with a safety braking system, ensuring instant stopping during emergencies or power failures. This enhances safety and preventing accidents.
- ❑ **Efficient and smart control panel:** The doors feature an advanced smart control panel with provisions for integrating multiple accessories, providing easy operation and safety.
- ❑ **Easy installation and low maintenance:** Avians high speed doors are designed for hassle-free installation and require minimal maintenance, saving time and costs in the long run.

## Types of Avians high speed doors

Avians offers a wide range of high speed door variants to cater to different applications and industries. Let's explore some of these variants:

- ❑ **High speed door - modular type:** This variant is designed for high-frequency operations and features stiffeners to withstand high wind loads. It also allows for quick and easy repairs of damaged panels due to its interchangeable panel design.
- ❑ **High speed door - anti-crash type:** Ideal for areas with vehicle traffic, this type of door offers protection from vehicle collisions. It features a self-alignment mechanism that enables automatic realignment after impact and a flexible bottom for smooth and long-lasting operation.
- ❑ **High speed door - clean room application:** Specially engineered for clean room environments, these doors offer a flush surface that is easy to clean and maintain. They ensure no air or temperature leakage, making them perfect for industries that require high cleanliness standards.
- ❑ **High speed door - food & pharma application:** These doors are designed to meet the strict requirements of the food and pharmaceutical industries. With FDA-approved PVC fabric and stainless steel construction, they provide a hygienic and space-saving solution for these sectors.
- ❑ **High speed door - cold storage application:** Built for temperature-controlled areas, these doors feature double wall insulated curtains, improving the efficiency of cold rooms. Their fast opening and closing capability helps maintain proper temperature control and enhance refrigeration efficiency.
- ❑ **High speed door - conveyor/machine and robotic application:** This variant is specifically designed for integration with conveyor systems, machines, and robotic applications. It offers high-speed operation, various material options, and the possibility of





integration with the client's system for seamless automation.

- ❑ **High speed door - metallic spiral type:** Combining the benefits of high-speed doors and metal rolling shutters, this variant offers insulation and high performance in terms of safety and thermal-acoustic insulation. Specially designed spiral mechanism for horizontal and vertical lifting to provide 90 degree opening. It is suitable for both indoor and outdoor use and provides an aesthetically pleasing appearance.
- ❑ **High speed door – fold-up type:** These doors are an excellent solution for reducing noise pollution and dust deposits. They are designed for heavy-duty applications and larger openings, making them suitable for high wind areas. The special anti-drop electromagnetic brake device ensures safety and prevents free-falling.

Avians high speed doors offer a wide range of options to cater to various industries and applications. Whether it's improving efficiency in cold storage, maintaining cleanliness in clean rooms, or enhancing automation in

conveyor systems, Avians has the right solution.

### Conclusion

Avians high speed doors provide a dependable option for those in need of efficient, long-lasting, and intelligent entrance solutions. Designed with high-speed functionality and the ability to be customised, these doors offer a versatile solution suitable for various applications across different industries. Our manufacturing plant has sprawling 280000 sq ft equipped with state-of-the-art technology and a highly experienced team. By selecting Avians, you can guarantee smooth operations, enhanced productivity, and a safer environment within your facility.

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For details, contact Avians, Pune, on Mob: +91 83903 00400, Email: sales@avians.co.in, or visit [www.avians.co.in](http://www.avians.co.in)

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### COMMUNICATION FEATURE

## Reliable power solution for machine building by Phoenix Contact

In recent years, one of the core goals for machine building industries around the globe has been to build more sustainable manufacturing processes. One of the biggest challenge for the manufacturing industries is implementing highly-reliable power solutions at their research and manufacturing facilities that not only support sustainability goals, but also improve competitiveness by reducing costs, reducing energy price volatility, and providing other value-added benefits to the manufacturing process. Nowadays industries are using more and more automation products to get effective and efficient results but more electronics are more prone to surges and availability.

We Phoenix Contact offers reliable power solutions for the machines and equipments:

- ❑ Robust surge protection devices to protect the machines against surges and lightnings
- ❑ Rugged power supply for superior system availability
- ❑ UPS solution assuring seamless operation with



best-in-class power buffering, backup, and redundancy

- ❑ Device circuit breakers to ensure equipment availability against short circuit and overloads
- ❑ Multifunction energy meters for monitoring of power quality

Advantages of Phoenix Contact's reliable power solutions:

- ❑ Reduce complaints
- ❑ Early fault detection
- ❑ Reduce downtime and increase system availability
- ❑ Real time monitoring

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(Communication provided by the management of the company)

# “Fluconn plans to grow production capacity by 80%”

A brainchild of Srinivas Rao, Fluconn Rotary Devices was established in 1982 to manufacture rotary unions. In this interview, **Srinivas Rao**, Managing Director, Fluconn, shares more about the company's products and plans to tap new market.

## What are the USPs of Fluconn?

Established in 1982, Fluconn Rotary Devices has been a pioneer in the field of rotary unions manufacturing in India. Over decades we have built a legacy of quality products and a large base of satisfied customers. We offer rotary unions across various media like water, steam, hydraulic and pneumatic. Our range of rotary unions finds applications in steel, paper, plastics industries amongst others.

At Fluconn, our great strength lies in the agility of the organisation. As a result over years we have built a reputation for developing & delivering custom built complex rotary unions, rotary distributors and multi passage Unions for special purpose machines (SPMs). We offer a viable alternative for OEMs and manufacturers to locally source at lower cost with faster access to support services.



offset our electricity consumption. As rotary unions are made of solid metals another key initiative is to redesign across our product portfolio to reduce weight which will have also have a knock on beneficial effect of reduced freight and transportation cost, directly reducing our carbon footprint.

## What are your suggestions to make SMEs stronger?

The SMEs are the engine of Indian manufacturing sector. Along with the Make in India initiatives, the government could do more to provide support to SMEs. In my view as an SME we typically struggle with three

issues—visibility in the international market, access to credit at attractive rates and mechanism to offer protection against defaults from domestic as well as international buyers. Addressing these issues by creating a comprehensive trade platform or a marketplace under the aegis of the government will go a long way to boost the confidence of the SME manufacturers. In a competitive landscape such a market place can help Indian manufacturers attract more interest from global buyers who in return get the benefit of dealing with credible manufacturers. A game changer of this nature can propel the sector forward to a higher growth rate and contribute heavily to India's target of becoming a \$5 trillion economy.

## How do you intend to expand your exports?

Since 2015, exports are a steadily growing segment for Fluconn. We have established partnerships with distributors and sales representatives to build presence in international markets. With the help of our associates we now have direct customer engagement and ability to participate in tenders.

## Could you please share with us information about your new innovations or products/solutions?

2022 has been an exciting year for us at Fluconn. We developed a new product line for automotive solutions. After successful trials with OEM partners, the first commercial batch has been delivered in Q4 2022. The automotive sectors offer the opportunity of large volumes and we expect this product vertical to be a high growth area.

## How is your company gearing up for sustainability?

While a new buzzword for many, sustainability for us has been at the core of our operations for decades now. We operate with zero waste policy, recycling 100 per cent of metal scrap and using recycled material where possible. Future plans involve investment in solar to

## What are your growth plans?

Over the last five years we have increased our investments in upgrading the plant and machinery. We have invested in a comprehensive testing facility that allows us to conduct in house testing for products with extremely high pressure or rpm. We are also starting the second phase of expansion of our production facility and intend to increase our current production capacity by 80 per cent.

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(Communication provided by the management of the company)



# Shri Guru Nanak Electricals offers all-in-one solutions for industries

For the last 44 years, the company manufactures all types of control transformer, isolation transformer and ultra-isolation transformer (single phase, two phase and three phase) and serving its valuable customers belonging to different reputed companies and hopes to increase its customers list in the coming future.

**S**hri Guru Nanak Electricals Pvt Ltd - established in 1980 - is located in West New Delhi. As a part of business, the company is committed to excellence in the areas of manufacturing, designing and development of all types of electrical components. It is an ISO 9001: 2015 certified company and offers CE approved products under the brand name New Gold. For the last 41 years, the company is serving for its valuable customers belonging to different reputed companies and hoping to increase its customers list in the coming future.

The company manufactures all types of control transformer, isolation transformer and ultra-isolation transformer (single phase, two phase and three phase). These transformers are especially suitable for CNC machines and for various machines control. These transformers can also be developed into Step up & Step down. The voltage range is up to 550 volt and frequency 25 Hz to 65 Hz. The company manufactures these transformers according to the customer requirement. For

the last 25 years, its customers are continuously using transformer for Fanuc, Siemens, Fagor, Mitsubishi, Fidia and Heidenhain Control.

Shri Guru Nanak Electricals is equipped with the state-of-the-art

technology and machinery in processing of products. The company possesses a well-experienced management team and technical staff having vast experience in their respective field with utmost dedication in its kind and acts with their skill and confidence along with the co-operation of its valued customers and suppliers. The company is gaining popularity in its product line.

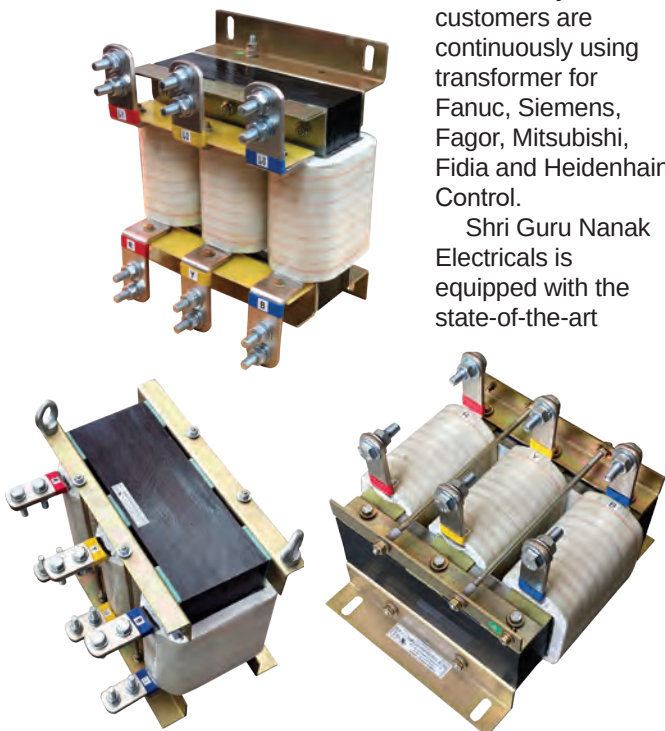
Shri Guru Nanak Electricals is always dedicated to its customer to provide its products in much better way and to meet the satisfaction of customers. The relation between the company and its customers/suppliers is cordial and co-operative. It has a specialty for manufacturing of servo stabiliser (single phase and three phase) up to 2000 KVA and all type of manual stabiliser (single phase and three phase) air cooled and oil cooled. The company develops these stabilisers according to the input and output voltage specified by its customers. It also undertakes the manufacturing of all types of line chokes and line reactors for AC and DC drives, three phase and DC chokes two wire 1 ampere to 5000 amperes.

Reactors for Power Factor Panels, 1 KVAR to 100 KVAR 440Volt to 1100Volt, 7 per cent and 14 per cent or as consumer requirement.

It also provides solutions to all kind of electrical and mechanical problems marked with exceptional quality to companies at national and international level such as France, Japan, Germany, Italy, USA, Taiwan, China, and England.



Rajinder Singh Rooprai (Director),  
Shri Guru Nanak Electricals Pvt Ltd



(Communication provided by the management of the company)

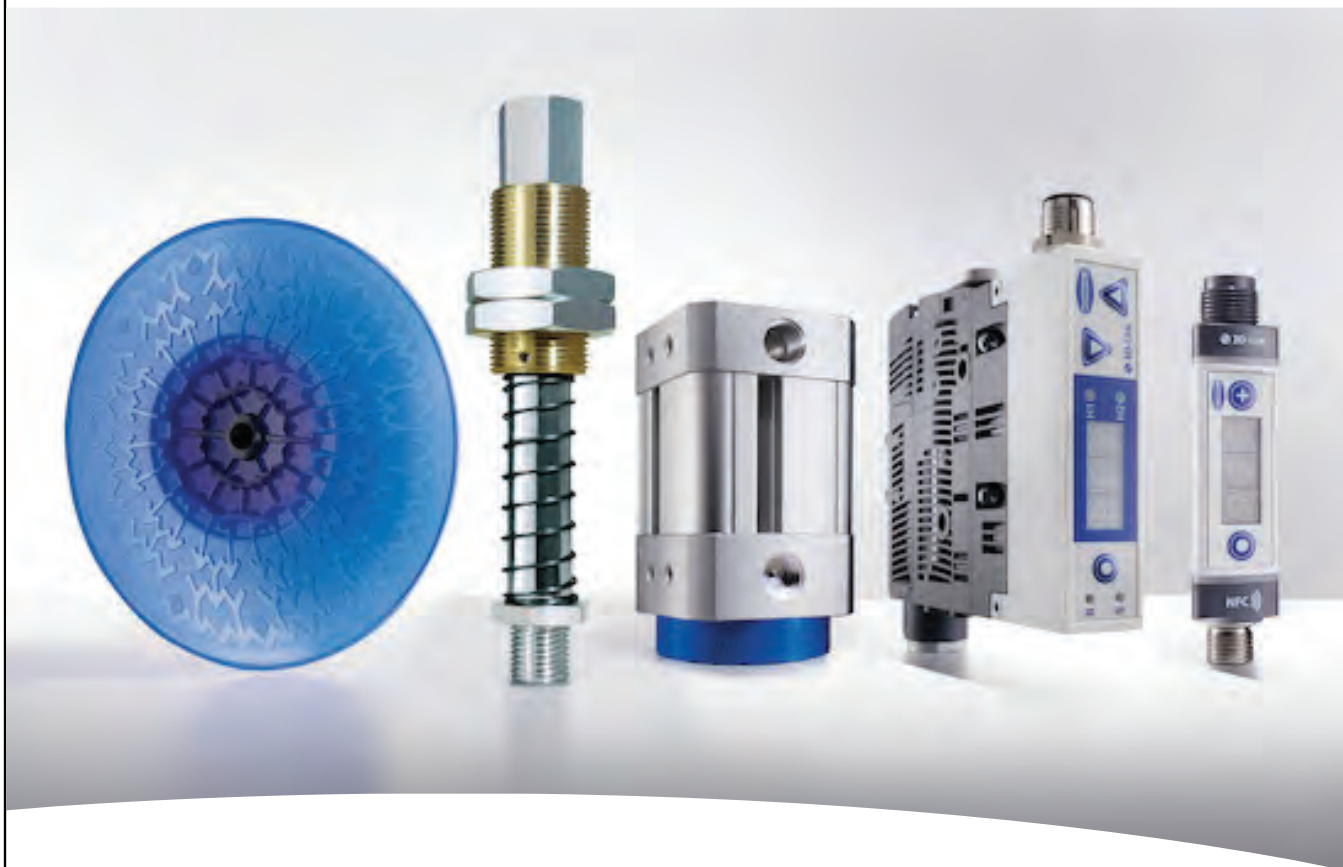
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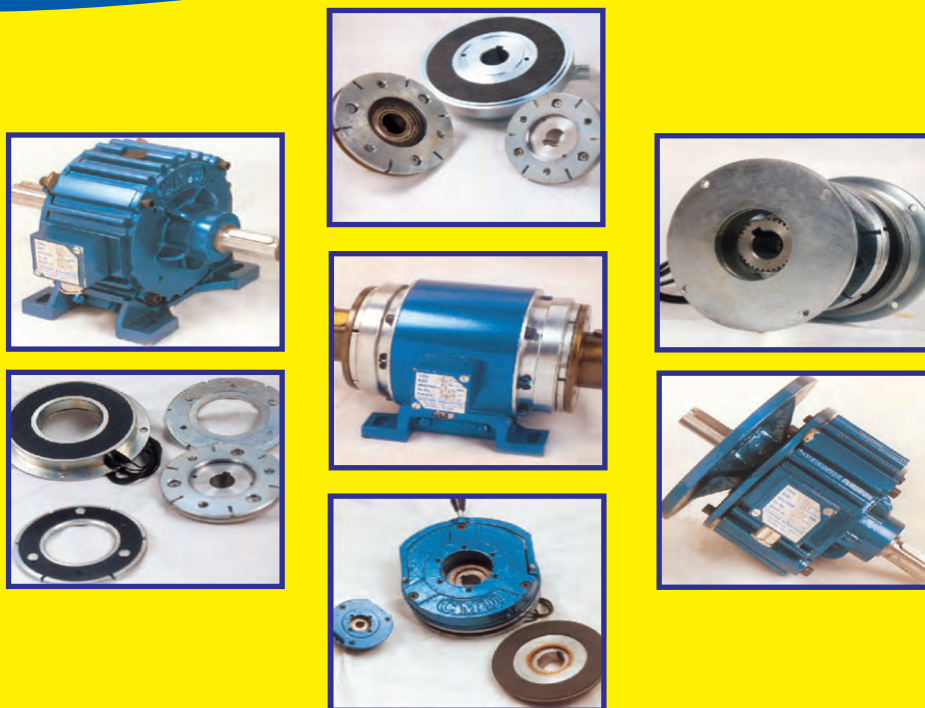
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- Vacuum Packaging Machines

**Rotamec Engineers**

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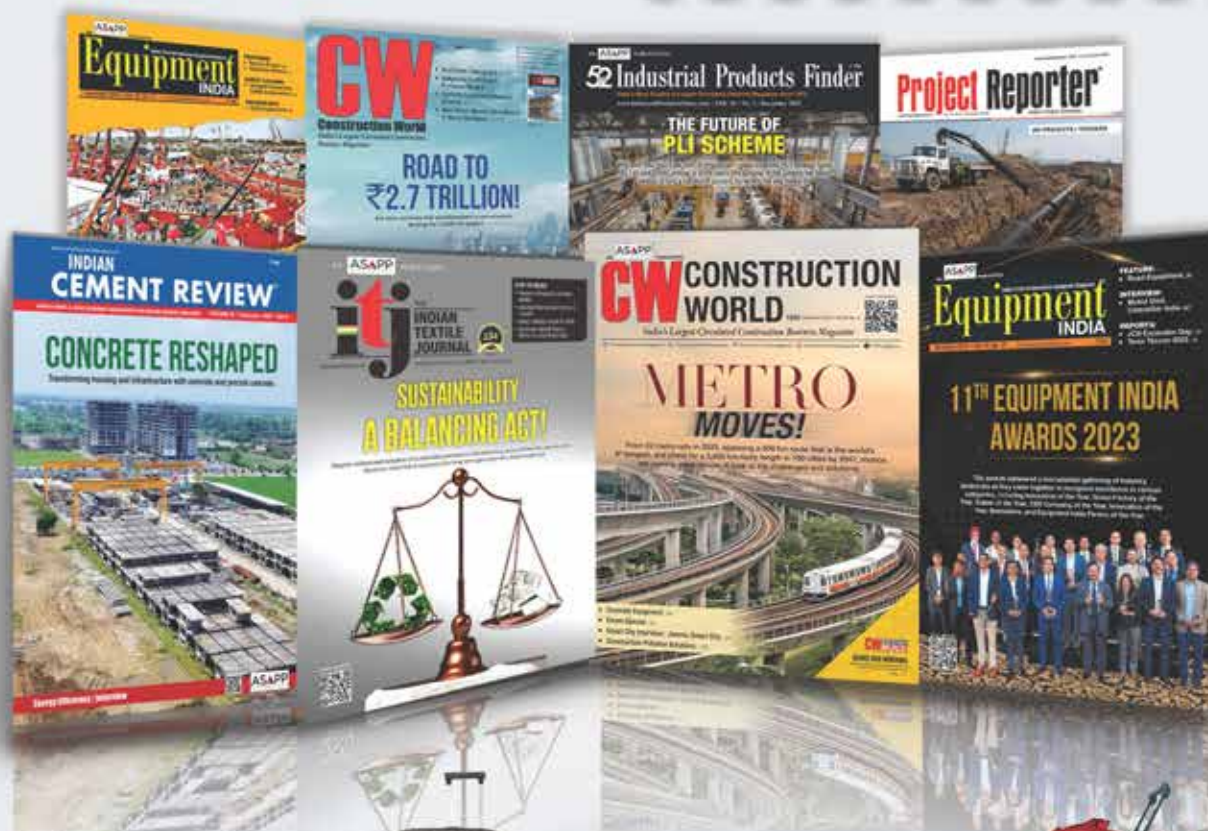


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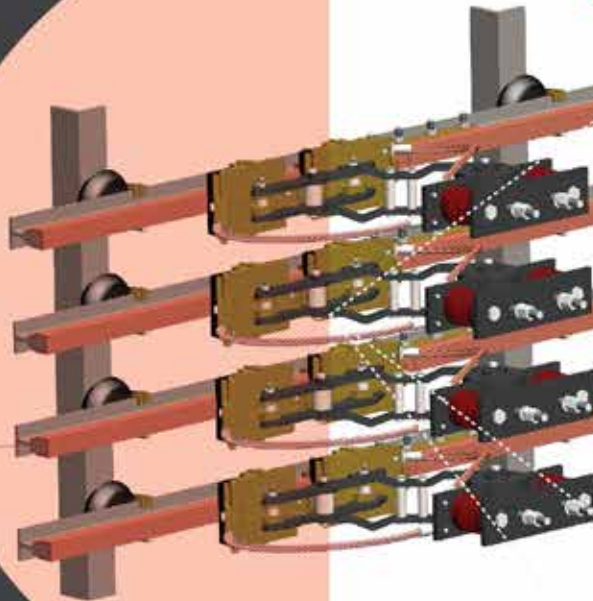


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