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- Drones: A Flight Towards Innovation 38
- What's Lifting the Material Handling Equipment Industry? 50
- Interview: Ninad Gadgil, Executive Director & CEO, Wendt India..... 83
- Interview: Vivek Yadav, Executive VP, Havells India Ltd 88

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The budget 2025 announced the National Manufacturing Mission to give a fresh push to industries. But is it enough to propel India's manufacturing sector to the next level?

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“**India's manufacturing sector grew by 3.5 per cent in Q3 FY25, an improvement from 2.1 per cent in Q2 but significantly below the 14 per cent recorded in Q3 FY24.**

Mission Manufacturing Excellence

India is poised to remain the world's fastest-growing major economy, with the International Monetary Fund (IMF) projecting GDP growth of 6.5 per cent for 2024-25. This strong outlook is fueled by resilient private investment and macroeconomic stability. However, the IMF stresses that sustaining long-term expansion will require structural reforms, including labour market improvements, better human capital development, and increased female workforce participation.

Despite global uncertainties, India's economy demonstrated resilience, growing by 6 per cent year-on-year in the first half of 2024-25. The National Statistics Office (NSO) reported a real GDP growth of 6.2 per cent in Q3 FY25 (October-December 2024), improving from 5.6 per cent in Q2 but lower than the 9.5 per cent recorded in Q3 FY24.

India's manufacturing sector grew by 3.5 per cent in Q3 FY25, an improvement from 2.1 per cent in Q2 but significantly below the 14 per cent recorded in Q3 FY24. The sector is projected to expand by 4.3 per cent for the full year, down from 12.3 per cent in FY24, though this prior high was partly due to a low base from FY23's negative growth.

Despite government efforts like the 'Make in India' initiative, manufacturing's contribution to GDP declined to 15.83 per cent in 2023-24 from 15.99 per cent in 2014-15. However, rising consumption demand, a robust rural economy, and increased government spending contributed to overall economic activity. Private Final Consumption Expenditure (PFCE) grew by 6.9 per cent in Q3, up from 5.9 per cent in Q2, while Government Final Consumption Expenditure (GFCE) expanded by 8.3 per cent reflecting stronger public sector investments.

The Indian government has reinforced its commitment to industrial growth through the Union Budget 2025-26. A key highlight is the National Manufacturing Mission, aimed at addressing regulatory bottlenecks, improving access to technology, and enhancing workforce skills. The initiative is expected to create 22 lakh jobs, generate ₹4 trillion in turnover, and increase exports by ₹1.1 trillion. To strengthen domestic production, the budget introduces incentives for key industries and supply chain improvements. Given that India accounts for only 2.8 per cent of global manufacturing output compared to China's 28.8 per cent, the mission is crucial for scaling up industrial capabilities.

Geopolitical tensions, particularly between China and Western nations, have accelerated the China Plus One strategy, prompting global firms to diversify supply chains. This shift presents India with a major opportunity to establish itself as a global manufacturing hub.

India's manufacturing market, valued at \$329.43 billion in 2024, is projected to expand at a CAGR of 8.2 per cent over the next decade. By 2029, it is expected to reach \$523.7 billion, driven by rising foreign investments, policy support, and enhanced infrastructure. Strategic trade partnerships with the US, EU, and other key economies will further strengthen India's position in global value chains.

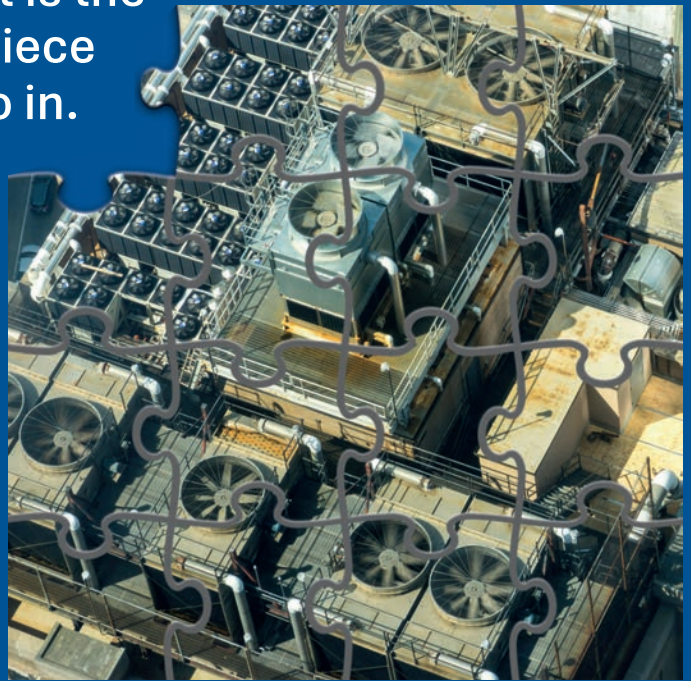
With favourable economic policies, strong domestic demand, and increasing foreign interest, India's manufacturing sector is well-positioned for sustained expansion, making it a critical pillar of long-term economic growth.



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COVER STORY



33 Manufacturing Taking Off

The Make in India initiative has had a significant impact on the Indian manufacturing sector. However, the country has also missed several opportunities over the past decade. Can the National Manufacturing Mission, announced in budget 2025-26, propel the sector in the high-growth orbit?

FOCUS: DEFENCE, AEROSPACE & DRONE



38 Drones: A Flight Towards Innovation

41 Viewpoint: Agnishwar Jayaprakash, Founder & CEO, Garuda Aerospace
"Drones are the key to modern defence strategies."

43 Viewpoint: Raghavan Viswanathan, Partner – Deal Advisory, KMPG
"India aims for global drone export leadership."

45 Viewpoint: Satyabrata Satapathy, Co-founder, BonV Aero
"India's drone policies have benefitted BonV Aero."

46 Honeywell and AM Green to Advance Carbon Capture and Sustainable Aviation Fuel

46 Bharat Forge and VEDA Aeronautics Collaborate for Unmanned Systems

47 Safran and BEL Partner to Manufacture HAMMER Weapon in India

49 Product Releases

FOCUS: MATERIAL HANDLING EQUIPMENT & LOGISTICS



50 Material Handling Equipment: Raising India's Supply Chain Efficiency

52 LogiMAT Displays Innovative Solutions for Indian Logistics

54 Addverb Unveils India's Largest Quadruped Trakr 2.0

55 The Power of Behaviour Based Safety in Workplaces
Suresh Tanwar, Head of Audit & Consultancy, British Safety Council, India

57 Gandhi Automations Presents Prime Metallic High Speed Doors

58 Product Update

FOCUS: MECHANICAL POWER TRANSMISSION

60 Brighter Days Ahead for Motion Controls Market?

61 Fluid Power Paves the Way for Industry
Courtesy: Deutsche Messe AG

63 Viewpoint: Amit Gupta, Division President - Motion Services, ABB India Ltd
"ABB uses predictive maintenance technologies."

65 Mayr Power Transmission Opens Plant in Halol

66 WALTER unveils Automated Tool Production System for Cylindrical Precision Tools

67 Product Update



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OTHER COLUMNS

LeaderSpeak

- 70** Hitendra Bhargava, CEO & Regional Management Board Member Asia Pacific, Klüber Lubrication
"Klüber's path in India has been marked by continuous growth."



Metal Works



- 72** IMTEX 2025 Bolsters Global Collaboration in Machine Tools
- 83** **Viewpoint:** Ninad Gadgil, Executive Director & CEO, Wendt India Ltd
"Wendt India is targeting high double-digit growth rate."
- 84** **Viewpoint:** Simon Liao, Deputy GM, 2nd Business Dept, HIWIN Technologies
"India presents a huge opportunity for HIWIN."
- 85** **Viewpoint:** Fabian Habel, Director - Global Business Development, Product Sales & Launch, ifm electronic gmbh
"Technology adoption should be purposeful."

Automoti-EV

- 87** India EV Market Competition Grows: Bloomberg NEF
Courtesy: Bloomberg New Economy Forum

Energy Update

- 88** **Viewpoint:** Vivek Yadav, Executive VP, Havells India Ltd
"Switchgear is becoming increasingly digitalized."



Process Industry Update

- 89** **Viewpoint:** Vishal Agarwal, President, Yudo Hot Runner India Pvt Ltd
"Our India solutions are built for tough environments."



Railways

- 91** Texmaco Rail and Nevomo to Create New Era of Rail Infra

Tech Update

- 92** JumboFlex Vacuum Tube Lifter: An Ergonomic Solution

Industry Update

- 20** Hitachi Hi-Rel Showcases Cutting-edge Power Electronics Products at Elecrama 2025
- 16** Seco's New Helical Milling Cutter Delivers Three Times Longer Tool Life
- 18** Yokogawa Unveils Oprex to Accelerate DX in Quality Assurance
- 18** FFG to Supply 1.54 Million Railway Wheels to India's RKTR
- 28** Hensoldt Signs MoUs for Radar, Sensor Production in India
- 28** Cyient DLM Secures Production Contract with Boeing

REGULARS

- 04** Editor's Note
- 10** Company Index
- 15** Industry News
- 93** Hot Products
- 95** Product Release
- 99** Product Parade
- 103** Trade Fairs & Conferences
- 104** Product Index
- 110** Twit-Bits: What's trending on Social Media

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- Industrial Automation & Robotics
- Hydraulics & Pneumatics
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ABB India Ltd	63
ACE Designers.....Cover IV	
Action Construction Equipment Limited	20
Aegis Scaffolding Services Pvt Ltd.....	102
Aequs Pvt Ltd	49
Anar Rub Tech Pvt Ltd	99
Andreas Mayer Workforce Technology Pvt Ltd...	75
Anvil Cables Private Limited	31
Avians Innovations Technology Pvt Ltd	13

B

B R Precisions	97
Bakelite Electrical Mfg Co Pvt Ltd	59
Besto Material Handling Equipments	59
Bharat Electronics Limited.....	47
Bharat Forge Ltd	46
Bharat Heavy Machines	58
Blum-Novotest Measuring & Testing Technology Pvt Ltd	97
Boehlerit GmbH & Co KG	73
BonV Aero	45
Bright Burnishing Tools.....	79
Brisk Tech Engineers	93
British Safety Council.....	55
Brother Machinery India Pvt Ltd.....	72
Buildmate Projects Pvt Ltd	102
BVM Technologies Pvt Ltd	67
BXL Enterprise	5

C

CAD MACRO Design & Solutions.....	76
Capital Engineering Corporation	99
Classic Polymer & Resins	15
CNC India Tools & Services	76
Creative Enterprises	101
Crush Power	58

D

DC Hoist & Instruments Pvt Ltd	59
Delco Fans Pvt Ltd.....	93

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Delhiwala Zaheeruddin Jamaluddin	68
Delta Electronics India Private Limited	93
Dormer Pramet.	74

E

E & A Engineering Solutions Pvt Ltd	67
Electro Cables Industries	68
Elektromag Joest Vibration Pvt Ltd	29, 96
Elektromag Methods	29, 96
Elmech Engineers	53
Engimach	86
Ereva Transformers & Switchgear	68
Esquire Machines Pvt Ltd	101
E-Tech Power Engineers	68

F

Faster Hydraulics Pvt Ltd	17
Fenwick And Ravi.	76
Festo India Pvt Ltd	77
Fledon Group	82

G

G R Cranes & Elevators	58
Gandhi Automations Pvt Ltd	3, 57
Garuda Aerospace	41
Gates India Pvt Ltd	19
Geltronix	49
Global Sales & Engineering Services	100

H

Hann Kuen Machinery & Hardware Co Ltd	74
Hardware & Pneumatics	102
Hasmukhlal & Brothers	99
Havells India Ltd	Cover II, 88
Heat Treatment Sales & Services	95
Hemkund Precision Engineering Pvt Ltd	49
Hercules Hoists Ltd.	59
Hindustan Power	32
Hitachi Industrial Products	20
HIWIN Technologies.	84
Honeywell	46

I

IBK Engineers Pvt Ltd	94
ifm electronic	85
IMTOS	69
Industrial Engineering Services	68

J

Jamshedji Constro Equip Pvt Ltd	101
Jayco Hoist & Cranes Mfg Co	59

Jinisha Electrolites	100
JVS Electronics Pvt Ltd	93, 96

K

Kalpar Engineers Pvt Ltd	23
Kalyani Group	17
Khanwalkar Industries	27, 98
Klipco Pvt Ltd	25
Klüber Lubrication	70
KMPG	43
KPIT Technologies	24
KTA Spindle Toolings	78
Kusam Electrical Industries Ltd	96

L

Laxmi En-Fab Pvt Ltd	102
Lee Springs	Cover III
Levcon	25
Loadmech Engineers	58
Lubi Electronics	82
Lucsam Services Pvt Ltd	67

M

Machbow Products	15
Magnets India	77, 94
Mayr Power Transmission	65
Merlinhawk Aerospace Pvt Ltd	49
MGM-Varvel Power Transmission Pvt Ltd	100
Micro Precision Works	99
Miracle Electronic Devices Pvt Ltd	98
Miven Mayfran Conveyors	77
Mortek Machinery Pvt Ltd	101

N

National Engineering Works	99
Nilkanth Engineering Works	102
NTPC Limited	23

O

ORM Engineering Pvt Ltd	100
-------------------------------	-----

P

Padmavahini Transformers Pvt Ltd	67
Panasonic Industry	16
Patels Airflow Ltd	27
Pathak Industries KOL	78
Pethe Industrial Marketing Company Pvt Ltd ..	100
PFERD	94
Pneumec Kontrolls	79
Power Engineers And Consultants	67
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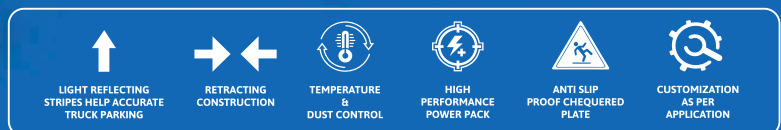
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Pristine Engineering Services Pvt Ltd	68
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Prominent Machine Tool.....	80
Punjab Agro Sales (India)	101

Q

Quaker Chemical India Pvt Ltd	80
--	-----------

R

Rajat Equipments Pvt Ltd	101
Ramkrishna Titagarh Rail Wheels Ltd	18
Rana Material Handling Equipments Pvt Ltd. .	58
RMS Corporation.....	99
Robotic Equipments	58

S

Safex Industries Limited	59
Sandvik Coromant India	75
Schmalz India	92
Schunk Intec India Pvt Ltd	94
SCI Storage Solution.....	58
Seco Tools India Pvt Ltd	16
Secon Technological Solutions Inc.....	80, 98
Servokon Systems Ltd.....	67

SFS Equipments Pvt Ltd	51
-------------------------------------	-----------

SH Industrial Needs	49
Sheetal Industries	58
Shreeji Technology	102
Shri Krsna Urja Project Ltd.....	67
Siechem Technologies Pvt Ltd	68
Sona Construction Technologies Pvt Ltd	102
Spangle Steel Products.....	59
Speciality Fasteners International	49
Stellent Technologies Pvt Ltd.....	100
Subtronics (India) Pvt Ltd.....	95
Sujan Industries	49
Suretech Infrastructure Pvt Ltd.....	101
Surface Modification Technologies Pvt Ltd	81
Swati Precision Tool Room.....	49
SWIT	81

T

Tacklers Engineering Pvt Ltd	7
Technovision Engineers Pvt Ltd	59
Timken India Limited.....	9
TMA International Pvt Ltd	67
Topall Impex	102
Tripcon Engineering Pvt Ltd.....	99
Trishul Machine Tools Pvt Ltd.....	81

U

United Grinding 73	
Universal Machine Tools Corporation.....	98

V

Van Norman Machine (India) Pvt Ltd.....	11
Veer Industries	68
Vijay Air Control	97
Vollmer Technologies India	78

W

Walter Maschinenbau GmbH	25
WALTER Maschinenbau GmbH.....	66
Wendt India Ltd	83

Y

Yokogawa Electric Corporation.....	18
Yudo Hot Runner India Pvt Ltd	89

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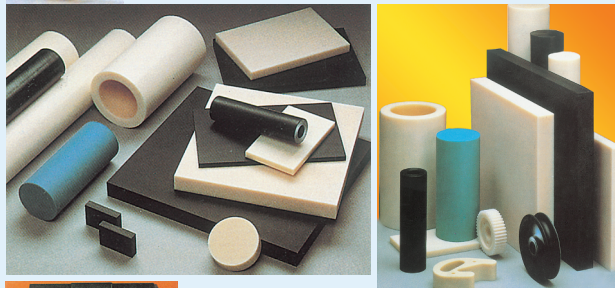
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HVAC

Panasonic Industry unveils innovative, energy-efficient HVAC solutions

Panasonic Industry – a business division of Panasonic Life Solutions India (PLSIND) unveiled its latest innovative solutions – the advanced AR-T Series - BLDC Motors and the next-generation Vacua series - Vacuum Insulation Panels (VIP) for the Heating, Ventilation and Air Conditioning (HVAC) industry at the ACREX India 2025. The AR-T series - BLDC Motor's innovative design ensures high reliability while significantly reducing noise and vibration making it an ideal choice for Air Cooled chillers applications where performance and energy efficiency are of utmost priority. Vacua series - Vacuum Insulation Panels (VIP) the latest generation of insulation panel is known for its advanced energy-saving, environmental protection, high efficiency, low thermal conductivity, and advanced performance (heat insulation is 20 times better than polyurethane foam). These solutions have been introduced keeping in mind the rise in demand for



reliable, energy efficient and tech-enabled components in HVAC designing.

Narayan Kumar, Divisional Director, Panasonic Industry, PLSIND said, "HVAC industry continues to be on an upward trajectory with a CAGR of 15.8 per cent. Expanding market size, advancements in new-age technology adoption, green building initiatives, government's push on infrastructure development are some of

the key factors driving the demand in the industry. This has led OEMs to focus on trusted, performance-driven, environment friendly solutions. At Panasonic Industry, we are committed to deliver next-generation, tech-enabled components that align with the evolving needs of the industry and end-customer. For instance, the Vacua series features advanced energy-saving composite materials that not only enhances insulation but, its slim body (5-8 mm thickness) helps increase the storage volume in an appliance.

Industrial Supplies

Seco's new helical milling cutter delivers three times longer tool life

The new Seco LN4-11 Helical Milling Cutter provides up to three times longer tool life per edge and boosts productivity to achieve the lowest cost per part. The cutter ensures high material removal rates in applications requiring a helical milling cutter 32 – 63 mm in diameter.

The LN4-11 provides shops several avenues to cut costs and improve profitability. Its adaptability to a variety of applications enables shops to reduce tooling inventories and costs. Operators simply change out the cutter's inserts to go from one application the next. The tool's front and helical insert pockets also eliminate the risk of incorrect insert placement to improve efficiency and reduce waste.

"The new Seco LN4-11 Helical Milling Cutter is the answer to the challenges shops face today," said Seco



Seco LN4-11 helical milling cutters

Product Manager Magnus Engdahl. "It's impossible to load the inserts of the cutter incorrectly, and every cutter body and insert feature an individual Seco Data Matrix code that provides access to cutting data and spare part tracking. It's an excellent opportunity for shops to improve productivity and efficiency while overcoming the challenges created by lesser skilled operators."

The milling cutter has two different inserts. There are two cutting edges on the front inserts and four edges on the helix inserts. The design allows robust machining operations and aggressive material removal rates. Cost performance is enhanced, and tool life is improved. Inserts are available in a broad range of grades and geometries for a variety of operations and materials.

Aerospace & Defence

Kalyani Group unveils gun at IDEX 2025

Kalyani Strategic Systems Limited, a wholly-owned defence subsidiary of Bharat Forge, unveiled the MArG 45, mobile gun system mounted on a 4x4 all-terrain platform, at IDEX Abu Dhabi 2025. The prestigious launch was officiated by H E Shri Sunjay Sudhir, Ambassador of India to the UAE, reinforcing India's commitment to advancing global defense technology.



MArG 45 exemplifies Kalyani Group's ingenuity in challenging conventions, integrating firepower, range, and mobility into a single, ground-breaking platform. Designed for rapid deployment and superior manoeuvrability, it is a "go-anywhere" gun with unparalleled shoot-and-scoot capabilities.

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Chemical and Pharma

Yokogawa unveils OpreX to accelerate DX in quality assurance

Yokogawa Electric Corporation releases OpreX™ Quality Management System, a product in the OpreX Operational Risk Management family.

OpreX Quality Management System is a cloud-based system that can accelerate the digital transformation of quality assurance processes for the manufacturing of pharmaceuticals and food & beverages. It streamlines operations and allows for continuous improvements by enabling the tracking and centralised management of quality assurance processes such as the handling of deviations from manufacturing procedures and specified standards, implementation of CAPA, changes to manufacturing procedures, and revision of documents.

Scope of OpreX Quality Management System
Development background

In addition to taking steps to ensure swift compliance with GMP and GQP standards and enhance quality assurance processes, the pharmaceutical manufacturing



industry has been looking to streamline operations and reduce costs.

At the same time, quality assurance with the production of pharmaceuticals and food & beverages involves a broad range of processes that include dealing with deviations, implementing CAPA,

and managing any necessary changes to manufacturing procedures, so smooth and correct management of these processes is a necessity.

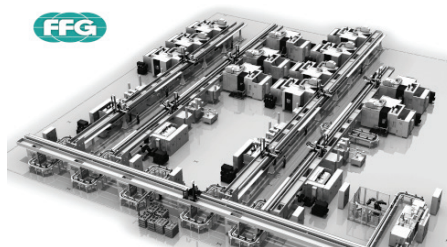
The need to code workflows for handling deviations, implementing CAPA, changing manufacturing procedures, revising documents, creating education records, and other such processes is eliminated, enabling the flexible programming-free handling of a wide variety of quality assurance processes. An advanced platform enabling the addition of functions and linkage with other systems. This product is a cloud-based system built on the globally proven, flexible, and highly scalable ServiceNow® platform.

Railways

FFG to supply 1.54 million railway wheels to India's RKTR

FFG subsidiary MAG IAS GmbH (MAG) has been awarded a significant contract to deliver a highly automated production line for forged railway wheels to Ramkrishna Titagarh Rail Wheels Ltd. (RKTR) in India. The multi-million euro project aligns with the Indian government's 'Make in India' initiative, aiming to position the country as a globally competitive industrial hub.

The turnkey solution includes machining and testing lines for railway wheel production, featuring equipment from FFG's MAG and HESSAPP brands. This system will be installed at RKTR's Chennai facility and is designed to produce 100,000 railway wheels annually. Capable of manufacturing six types of railway wheels without changeover, the system is also scalable, allowing for



doubled production capacity if required. FFG has employed advanced planning techniques, including creating a digital twin and 3D simulations, to ensure precise execution and fast commissioning. The system's pre-calculated energy consumption for various production scenarios supports sustainable

manufacturing practices.

Key components include MAG SPECHT 800 horizontal machining centres, HESSAPP VDM 1600 vertical lathes, and automation for machining and testing cells, along with measuring machines, a balancing station, ultrasonic testing units, and magnetic particle inspection stations. The centrally controlled system will allow monitoring and precise tracking of components.



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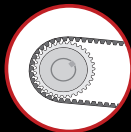
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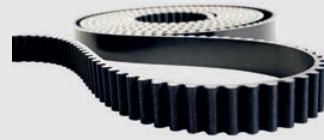


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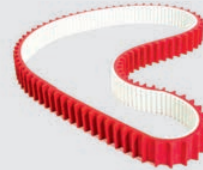
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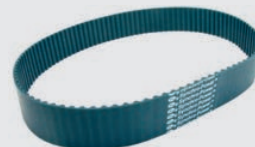
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Electricals & Electronics

Hitachi Hi-Rel concludes successful participation at ELECRAMA 2025

Hitachi Hi-Rel successfully concluded its participation at ELECRAMA 2025, WORLD'S LARGEST Electrical and Allied Electronics Show in India, held from February 22 to 26, 2025 at the India Expo Centre, Greater Noida, UP, India.

The Hitachi Hi-Rel stall was inaugurated by Shinichi Aida, Division Director & General Manager - Electrical Systems Sales & Marketing Division, Hitachi Industrial Products, Ltd, Japan on February 22, 2025, Saturday at 10:30 am.

The event was graced by the presence of Akiyoshi Kawakami, Manager - Sales & Marketing Department of Electrical Systems Sales & Marketing Division, Hitachi Industrial Products Ltd Japan, Hideki Kamagata, General Manager - Sales & Marketing Department- Electrical Systems Sales & Marketing Division and many more.

The exhibition provided a valuable platform for Hitachi Hi-Rel to showcase its cutting-edge power electronics products and solutions, including:



- **Industrial UPS:** Highlighted i4eti Model 160 kVA AC UPS with i4 Series & i6et UPS Advanced Prototype Models.
- **IT & infra UPS:** Featured the HM33 Series - HM-33-60-3X Modular UPS Model.
- **Grid-tied solar string inverters:** Demonstrated the HIVERTER SI-350K Model.

- **Medium voltage drives:** Showcased the advanced technology of the HIVECTOL-E and HIVECTOL-E2 Series through Advanced Prototype Models.
 - **Low voltage drives:** Featured the WJ-C1N (15 kW), SH1 (37 kW) and SJ- IN1 (315 kW) products.
- Hitachi Hi-Rel's stall was a major attraction at ELECRAMA 2025, garnering significant attention from industry experts and media.

The company received a significant number of inquiries and leads, demonstrating a strong demand for its products and services.

Aerospace & Defence

ACE secures ₹4.2 billion contract from Ministry of Defence

Action Construction Equipment Limited (ACE) has secured the largest order in its history, reinforcing its commitment to the Government of India's 'Make in India' and 'Aatma Nirbhar Bharat' initiatives.

The Ministry of Defence (MoD) has signed contracts, in the presence of Defence Secretary Shri R K Singh, for the procurement of 1,868 Rough Terrain Fork Lift Trucks (RTFLT), with ACE securing a dominant 60 per cent share of the order. ACE will deliver 1,121 RTFLT along with attachments and accompanying accessories at a total value of ₹4.2 billion.

The RTFLT is a mission-critical asset, designed to enhance combat readiness and logistical efficiency across the Indian Army, Indian Air Force, and Indian Navy. By



reducing manual handling of vast quantities of essential supplies, the RTFLT significantly improves the operational effectiveness of the Defence forces.

ACE was awarded this breakthrough contract after successfully demonstrating the capability of its equipment through rigorous performance testing.

"This is a momentous achievement for ACE, marking our single largest order to date and a testament to our unwavering commitment to innovation and excellence. We take immense pride in playing a crucial role in strengthening our nation's defence logistics with indigenously designed and manufactured solutions", said, Sorab Agarwal, Executive Director, ACE.

Renewable Energy

NTPC to invest over ₹2 trillion in MP

India's largest integrated energy company, NTPC Limited along with its subsidiary NTPC Green Energy Ltd (NGEL) has signed multiple MoUs with the Govt. of Madhya Pradesh during the Global Investors Summit, being held at Bhopal on February 24-25, 2025. It includes renewable projects based on Solar, Wind, Pump Hydro and other carbon neutral energy sources in the state of Madhya Pradesh.

The first MoU was signed between NGEL and Madhya Pradesh Power Generating Company Limited (MPPGCL) for setting up Renewable Energy projects up to 20 GW or more in the state, at an approximate investment of ₹1,200 billion. This has paved the way for formation of a Joint Venture Company (JVC), which will help in mitigating the Renewable Generation Obligation (RGO) of Madhya Pradesh Generating Company as well as Renewable Purchase Obligation (RPO) of Madhya Pradesh DISCOMs.

The second MOU was signed between NTPC Ltd. & Govt. of MP for other sustainable non-fossil fuel power plants at an estimated investment of ₹800 billion. Madhya Pradesh Power Management Company Limited (MPPMCL) has signed this MOU on behalf of the state Govt.

An agreement was also signed between Govt. of MP & NTPC, pertaining to an intent to invest approximately ₹40 billion in setting up 800 MW of Pumped Hydro Storage Project in the state.

The MoUs were signed in the presence of the Dr Mohan Yadav, Hon'ble Chief Minister of MP and Shri Gurdeep Singh, CMD, NTPC Ltd. along with other senior officials of Govt of MP & NTPC Ltd and will play a significant role in promoting sustainable energy solutions while strengthening GOI's efforts towards energy transition and Net Zero targets.

NTPC Ltd is India's largest integrated power utility, contributing one-fourth of the India's power requirements and has an installed capacity of over 77 GW, with an additional capacity of 29.5 GW under construction, including 9.6 GW of renewable energy capacity. The company is committed to achieving 60 GW of renewable energy capacity by 2032.

With a diverse portfolio of thermal, hydro, solar, and wind power plants, NTPC is dedicated to delivering reliable, affordable, and sustainable electricity to the nation. The company is committed to adopting best practices, fostering innovation, and embracing clean energy technologies for a greener future.

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Batteries

Trentar to commercialise KPITs' sodium ion battery technology

KPIT Technologies, a global leader in building mobility solutions for a cleaner, smarter, and safer world, and Trentar Energy Solutions Pvt. Ltd, a company set up to cater the electrical mobility and energy storage space collaborate on sodium-ion battery technology. Under the collaboration, KPIT will transfer its breakthrough sodium-ion battery technology to Trentar Energy Solutions Pvt Ltd, to operationalise and commercialise it further.

Sodium-ion battery technology offers an extended lifespan, 80 per cent capacity retention for 3000-6000 cycles, and faster charging capability than lithium batteries. This indigenous battery technology's cornerstone is utilising earth-abundant raw materials, thereby making electric mobility more affordable. It has promising applications in mobility including two, three, four wheelers and public transportation, stationary deployments, such as UPS backups and grid storage, as well as in the marine and defence sectors.

Through this collaboration, KPIT has transferred the sodium ion battery technology to Trentar Energy Solutions. KPIT and now Trentar are among a small and elite group of sustainability-focused organisations worldwide that continue to develop sodium-ion-based battery technology.

The technology transfer agreement includes Trentar investing in the manufacturing capacity of 3GWH sodium-ion batteries and KPIT receiving upfront technology transfer fees and additional royalty fees over 8 years.

“Building sustainable mobility technologies is at the heart of KPITs vision. Sodium-ion battery technology was born from the team's passion, perseverance, and synergetic collaboration with leading research institutes. We are pleased to have this agreement with Trentar, who will further operationalise and commercialise this technology for multiple market opportunities. KPIT will continue to work on several other sustainable technology solutions”, said, Ravi Pandit, Chairman, KPIT Technologies.

“With its cost-effectiveness, simplified supply chain, and enhanced safety, sodium ion technology represents a strategic focus for our organisation. We are committed to developing a robust technological product line in this space, catering to diverse customers across mobility and energy storage verticals. This marks a significant step towards a more sustainable and scalable energy for the future.” said Subodh Menon, Founder & Vice Chairman, Trentar. Trentar is focused on emerging technologies and businesses and is embarking on innovating in this new tech space globally.

Aerospace & Defence

65-70 per cent of defence platforms now made in India: Rajnath Singh

Defence Minister Rajnath Singh announced that 65-70 per cent of weapons and defence platforms are now manufactured in India, a significant shift from a decade ago when most equipment was imported. Speaking at the valedictory event of Aero India 2025, Singh highlighted India's growing defence capabilities, with indigenous products like fighter jets, missile systems, and naval vessels gaining global recognition.

He noted India's expanding export portfolio, which includes advanced systems like the BrahMos and Akash missiles. India's defence industrial base now comprises 16 Defence Public Sector Undertakings, 430 licensed

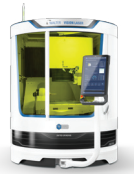
companies, and nearly 16,000 MSMEs, with the private sector contributing 21 per cent of total defence production. Singh urged private industry to take a leading role in the sector's future growth.

Aero India 2025 saw record participation, with over 500 delegates from 84 countries and 931 exhibitors, including 782 from India. The event featured 58 Original Equipment Manufacturers and 115 global CEOs, making it the largest international turnout to date. India showcased its indigenous defence innovation with 33 advanced products at the Samarthya indigenisation event, a first-of-its-kind feature at Aero India.

Industrial Supplies

WALTER to hold Open House in Tübingen

Walter Maschinenbau GmbH is inviting customers and interested parties to an open house at its headquarters in Tübingen from May 6-11. Under the motto 'Super-hard materials', other innovations such as the ATP (Automated Tool Production), automation solution and the heliheck NANO fully automatic measuring machine for micro and nano tools will be on display alongside the new innovative vision laser processing machine. In addition, several other exhibits from the current machine portfolio, which primarily includes tool grinding and eroding machines, will also be presented.



A comprehensive supporting programme with exciting presentations, informative specialist talks and discussions has been scheduled on both the days. Further information about the Open House and registration are available on their website.



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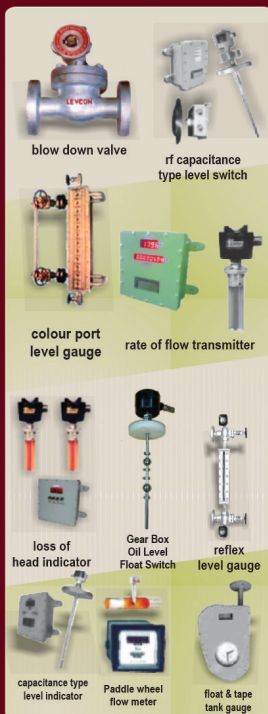
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In Conversation with the Change Maker –

Mr. Amitabh Kant,

G20 Sherpa, in the

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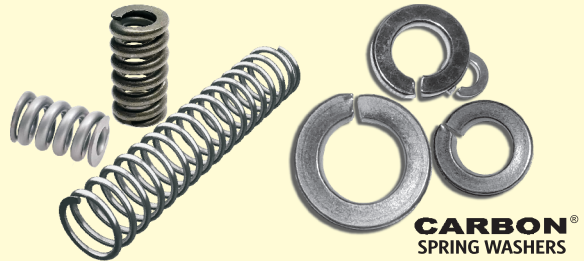
Aerospace & Defence

GoI, G&B ink deal for combat control systems

The Government of India (GoI) has signed an agreement with Godrej & Boyce Manufacturing Company Limited to develop Flight Control Actuators for the Advanced Medium Combat Aircraft (AMCA) programme. The Memorandum of Understanding (MoU) was formalised at Aero India 2025 between the Aeronautical Development Agency (ADA) and Godrej & Boyce, a key player in India's defence manufacturing sector.

Godrej has collaborated with ADA for over two decades, contributing to the development of critical DDV-based servo actuators and associated functional elements. The company has established advanced manufacturing technologies, precision processes, and skillsets essential for producing high-precision actuator assemblies. Godrej will handle the complete realisation of Flight Control Actuators, including precision manufacturing, procurement of aero-grade raw materials, assembly, testing, and the creation of test rigs.

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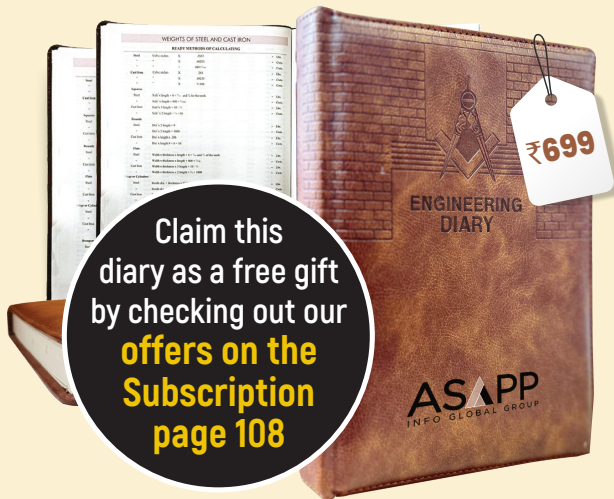
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Aerospace & Defence

Hensoldt signs Mou for defence tech in India

German defence electronics firm Hensoldt has strengthened its commitment to India by signing two key agreements at Aero India 2025 for localised production of advanced radar and sensor technologies. These partnerships align with India's 'Make in India' and 'Atmanirbhar Bharat' initiatives and reflect Berlin's push for deeper defence ties with New Delhi.

Hensoldt signed Memorandums of Understanding (MoUs) with Samtel Avionics and Raphe mPhibr. The MoU with Samtel Avionics will establish a co-production facility for airborne sensor solutions, focusing on developing systems like Cavi Sight, a visual landing aid, and Cavi Connect, a secure data exchange platform. It also includes production of the LCR 100, a lightweight flight recorder integrating voice, data, and video acquisition.

The second MoU with Raphe mPhibr focuses on co-developing an advanced MIMO radars.

Aerospace & Defence

Cyient DLM wins contract with Boeing

Cyient DLM, an integrated partner for design-led manufacturing, has signed a production contract with Boeing Global Services for precision-machined parts and assemblies.

Anthony Montalbano, CEO, Cyient DLM, said, "This contract with Boeing is a significant achievement for Cyient DLM, showcasing our advanced manufacturing capabilities and unwavering commitment to excellence. We are honoured to collaborate with Boeing, a global leader in aerospace, and we look forward to strengthening this relationship."

Cyient DLM is among the first AS9100C aerospace-certified electronic manufacturing facilities and the first in India to obtain the National Aerospace and Defence Contractors Accreditation Program certification for Circuit Card Assembly.

With over 30 years of experience, Cyient DLM specialises in manufacturing prototypes, small-batch production, box builds, and complete sub-assemblies and assemblies involving precision machining.

Processing Industry

Engel and Cannon to advance PUR flooding

ENGEL, a globally leading manufacturer of injection moulding machines, and CANNON, a world leader in the mixing and metering technology for reactive processes such as polyurethane or RTM, have entered a strategic partnership. The aim of this cooperation between two strong partners is to further develop innovative technologies for PUR flooding and enable industrial applications with even higher quality and efficiency.

The demand for high-quality PUR-coated components is steadily increasing. ENGEL refers to this technology as clearmelt and has decades of experience with it, as well as a multitude of customers and references. With the clearmelt process, components are coated with PUR directly in the machine after the injection moulding process. Now, ENGEL is strengthening its position through the partnership with CANNON – a cooperation between two experienced, family-owned companies that continuously invest in sustainable innovations. This combines long-standing expertise and leverages synergies to continue offering customers forward-looking solutions.

The collaboration between ENGEL and CANNON is particularly distinguished by a shared mindset based on long-term vision, quality, enthusiasm for innovation, and sustainable progress. Customers benefit from clearmelt with a coordinated technology that enables the efficient and economical integration of PUR into industrial manufacturing processes.

Technologically, the partnership is based on combining the strengths of both companies: ENGEL contributes its extensive expertise in injection moulding technology, while CANNON, with its outstanding expertise in PUR processing, optimises process reliability and efficiency. The clearmelt technology, which coats thermoplastic components with a durable PUR surface, is further developed and optimised through CANNON's know-how, built over two decades in this field.

A prime example of this collaboration is the world's largest injection moulding cell with a PUR system for clearmelt, which has been commissioned at the ENGEL technical centre in Sankt Valentin. There, customers can conduct practical tests with various PUR colour variants. The combination of the world's largest injection moulding machine in a technical centre, the ENGEL duo 5500 combi M, and the precise metering and mixing technology from CANNON ensures maximum process stability and flexibility. The PUR system from CANNON, which provides precise and efficient material supply.

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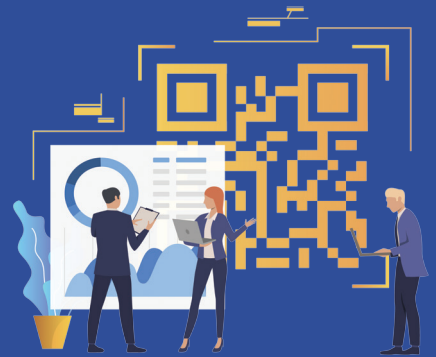


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Anvil and Wirepas create India's first cloud-based smart meter prepayment system

Anvil Cables Private Limited (Anvil), a leading Indian manufacturer of wires and cables for power transmission and distribution, and Wirepas, a global leader in IoT connectivity, have partnered to implement a cloud-based electricity prepayment solution for Advanced Metering Infrastructure (AMI), designed to meet the stringent requirements of the Indian AMI Standard Bidding Document (SBD). The solution, relying on RF mesh and already implemented in over 500 000 smart meters in the Assam and Kashmir regions, ensures reliable, scalable, and cost-effective connectivity.

India is the first country to implement a nationwide cloud-based prepayment electricity metering system, moving beyond the cumbersome keypad and token-based systems used elsewhere. Leading this transformation are APDCL in Assam and KPDCL in Kashmir, two utilities successfully deploying prepayment systems at scale, even

in challenging environments.

The demanding landscapes of Kashmir and Assam require robust, reliable communication, which is why Anvil Cables has partnered with Wirepas to deploy RF Mesh technology in all smart metering rollouts. This not only ensures high performance and instant disconnect and reconnect capabilities but also introduces new functionalities that require careful education to help users understand its benefits and experience minimal disruption. For example, users can now easily distinguish between a power outage and balance depletion.

The cloud-based prepayment system, available at the same cost as traditional systems, enables seamless, automated transactions – making electricity access more efficient and user-friendly for consumers. Users can top up their electricity balance anytime, anywhere. The system sends low-balance alerts to the customers.

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Renewable Energy

Hindustan Power and Assam govt to invest ₹6.2 billion in green energy projects

Marking a significant step towards advancing Assam's renewable energy landscape, Ratul Puri's Hindustan Power has signed a Memorandum of Understanding (MoU) with the Government of Assam to invest ₹6.2 billion in power and battery energy storage projects. The MoU was signed at the Advantage Assam 2.0 Investment and Infrastructure Summit in Guwahati, reinforcing the company's commitment to accelerating sustainable energy solutions.

Aligned with Hindustan Power's ambitious vision of achieving a 5 GW energy portfolio over the next three years, this investment will drive the development of a 100 MW solar power plant alongside a 100 MW battery energy storage system. The company will invest ₹5 billion for the solar plant and ₹1.2 billion for the battery storage facility, marking a transformative step in Assam's



renewable energy journey.

To be developed in collaboration with the Assam government, these projects will

not only enhance the state's energy infrastructure but also generate employment of more than 5,000 man days, fostering economic growth and employment opportunities.

Ratul Puri, Chairman, Hindustan Power, said, "We are proud that Hindustan Power was the first company to develop a large solar power plant in Assam in the year 2016, and the company remains committed to drive the state's journey of growth in the new era of renewable energy. Assam's dynamic landscape presents incredible opportunities, and we are excited to deepen our commitment to the state, harnessing its vast potential and contributing to its ambitious renewable energy goals."

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Manufacturing Taking Off

The Make in India initiative, launched on September 25, 2014, has had a significant impact on the Indian manufacturing sector. However, the country has also missed several opportunities over the past decade. Can the National Manufacturing Mission, announced in budget 2025-26, propel the sector in the high-growth orbit? Let's find out.



The last decade has witnessed significant transformations globally and in India, driven by technological advancements, economic shifts, and social dynamics. The global economy continues to face challenges such as inflation, rising interest rates, and supply chain disruptions. Financial resilience became crucial as businesses sought to optimise operations and mitigate risks amid these uncertainties. At the same time, the integration of technology has accelerated, with innovations such as artificial intelligence, blockchain, and cloud computing becoming mainstream. Organisations embracing these technologies have gained competitive advantages, streamlining operations and enhancing transparency.

At the same time, over the past decade, India has emerged as one of the largest economies globally, currently ranked 5th in GDP terms and expected to become 3rd by 2027. The country's GDP growth is projected at about 7 per cent for FY 2024-25, underscoring its position as

the fastest-growing major economy. "India's integration into the global economy has strengthened its diplomatic clout and made it a key player on the international stage. The country is expected to continue this trajectory towards becoming a developed economy by 2047. Significant reforms in various sectors have laid a strong foundation for sustained economic growth. These include improvements in infrastructure, labour regulations, and public sector efficiency, which are essential for attracting investment and fostering development," opines **Amitabh Kant, India's G20 Sherpa**. The former CEO of NITI Aayog, who has been a key governance reformer and policy change agent, was instrumental in launching several initiatives including "Make in India".



India's integration into the global economy has strengthened its diplomatic clout and made it a key player on the international stage.

Significant reforms in various sectors have laid a strong foundation for sustained economic growth.

Amitabh Kant, India's G20 Sherpa

A decade of transformation

India's engineering sector has undergone a significant

transformation over the last decade, driven by rapid urbanisation, technological advancements, and increased government focus on infrastructure development. **Amit Sharma, MD & CEO, Tata Consulting Engineers**, elaborates, "Initiatives like Make in India have boosted domestic manufacturing capabilities, while global collaborations have introduced cutting-edge technologies. The sector has grown into a dynamic ecosystem, contributing to both economic growth and technological progress."

Post Covid, the world has transformed drastically. The pandemic has shown that supply chain resilience is critical for business continuity, and companies must accelerate the adoption of advanced technologies like AI, IoT, and predictive analytics to streamline operations. **S Sunil Kumar, Country President, Henkel India**, comments, "The pandemic underscored the need for resilience, adaptability, and innovation. Globally, we've seen accelerated digital transformation, a reconfiguration of supply chains, and an intensified focus on sustainability. These shifts have compelled businesses to rethink operations and prioritise agility and self-reliance."

For the Indian manufacturing sector, the post-Covid period has been a time of reinvention and growth. The sector has embraced digital tools, automation, and Industry 4.0 technologies to enhance efficiency and reduce vulnerabilities. Sunil Kumar elaborates, "Government initiatives such as



Make in India and the Production-Linked Incentive (PLI) schemes have been instrumental in this transformation. The Make in India campaign has bolstered confidence in India as a global manufacturing hub, driving investments across sectors such as electronics, pharmaceuticals, and automotive. The PLI schemes, with their sector-specific incentives, have attracted global players and encouraged domestic manufacturers to scale production, invest in R&D, and adopt cutting-edge technologies."

With contribution of renewables to India's energy kitty increasing, companies are gearing up to take advantage of these shifts. Amit Sharma says, "The energy sector is witnessing a shift towards renewable energy sources, energy storage, decarbonisation and a renewed interest in nuclear both fission and fusion. India has taken bold steps in this transition, with a strong focus on nuclear, solar and wind energy, hydrogen technologies, and energy efficiency. While challenges like grid modernisation and infrastructure remain, India is well-positioned to leverage its strengths in innovation and policy support to lead the global energy transition."

Still a long way to go

Regulatory developments, such as evolving labour laws and localisation mandates under initiatives like Make in India, are reshaping the landscape,

encouraging manufacturers to modernise and adopt global best practices. While the Indian manufacturing sector is on a promising growth trajectory, it must navigate several challenges to realise its full potential.

Speaking about the key challenges before Indian electronics manufacturing sector, **J S Gujral, Managing Director, Syrma SGS Technology**, says, "While the Indian electronics manufacturing services (EMS) industry is on a robust growth trajectory, there are areas that present opportunities for improvement. Enhancing advanced infrastructure will enable more efficient supply chain operations, ensuring faster and more reliable delivery systems. Additionally, building a skilled workforce equipped to handle cutting-edge manufacturing technologies remains an exciting prospect."



While challenges like grid modernisation and infrastructure remain, India is well-positioned to leverage its strengths in innovation and policy support to lead the global energy transition.

Amit Sharma, MD & CEO, Tata Consulting Engineers

He adds, "India's regulatory environment is evolving, and ongoing efforts to simplify processes are paving the way for greater ease of doing business. With continued collaboration between industry stakeholders and policymakers, these developments can serve as catalysts to unlock the full potential of India's EMS sector and solidify its position as a global manufacturing hub."

Sustainability is no longer optional with manufacturers forced

to adopt eco-friendly processes and products as industries align with global net-zero goals. Sunil Kumar says, "Sustainability is another defining factor. Indian manufacturers are increasingly embracing green practices, from leveraging renewable energy to implementing circular economy models that emphasise recycling and resource efficiency. This aligns with the government's vision of fostering eco-friendly industrial growth through policies like PLI schemes."

Technological transformation

Technology will be at the heart of transformation, with Industry 4.0-related innovations such as IoT, AI-powered robotics, 5G, and digital twin technologies driving the next wave of smarter, more efficient manufacturing. Sunil Kumar explains, "Supply chain resilience has become a top priority. Manufacturers are focusing on localisation and nearshoring to reduce dependency on global networks, while integrating technologies like blockchain and AI to digitize and secure their supply chains."

While there is a plenty of opportunities for India in the manufacturing space, the country faces challenges such as skill gaps, supply chain disruptions, and the need for modernised infrastructure. "To address these, the industry should prioritise investments in R&D and skill development, while the government could support by fostering public-private partnerships, simplifying regulatory frameworks, strengthening the industry-academia partnerships, and ensuring a steady pipeline of infrastructure projects. Collaborative efforts will help overcome these hurdles and unlock the sector's potential," suggests Amit Sharma.

Emphasising innovation, reskilling, and technology integration will help industries stay ahead in an

increasingly competitive global market. Gujral explains, “Industry-academia collaboration is the need of the hour to address the talent gap in advanced manufacturing technologies and will ensure the availability of skilled workforce. Such measures, combined with strategic policy interventions, can position India as a global electronics manufacturing leader.”

Mission manufacturing

The Government of India has been striving to increase the share of manufacturing in its Gross Domestic Product (GDP) from the current 17

per cent to 25 per cent. However, the Economic Survey 2024-25, presented a day before the Union Budget 2025-26, highlighted that while manufacturing growth in India is steadily recovering, it remains slightly below its pre-pandemic trajectory.

Against this backdrop, in the Budget 2025-26, Union Finance Minister Nirmala Sitharaman announced the launch of a National Manufacturing Mission (NMM) to support small, medium, and large industries, further strengthening the “Make in India” initiative. The mission will focus on five key areas:

ease and cost of doing business, upskilling for in-demand jobs, MSME support, access to technology, and quality product manufacturing.

 **The ongoing geopolitical dynamics present India with a unique opportunity to solidify its position as a global design and manufacturing hub. Strategic trade partnerships with countries like the US and EU will further enhance India’s appeal.**

J S Gujral, MD, Syrma SGS Technology

A decade of Make in India: Hits & misses

The Make in India initiative, launched on September 25, 2014, has significantly impacted the Indian manufacturing sector over the past decade. According to Amitabh Kant, some of the key achievements of the initiative are:

- Increased FDI: FDI inflows surged from approximately \$45.14 billion in 2014-15 to \$84.83 billion in 2021-22, totaling about \$667.41 billion from April 2014 to March 2024.
- Improvement in ease of doing business: India’s ranking improved dramatically from 142nd in 2014 to 63rd in the World Bank’s Ease of Doing Business Index by 2020.
- Infrastructure development: The initiative facilitated the establishment of industrial corridors, special economic zones (SEZs), and smart cities, creating a conducive environment for manufacturing activities.
- Indigenous manufacturing projects: Notable projects like the Vande Bharat trains and the indigenous aircraft carrier INS Vikrant exemplify India’s growing capabilities in advanced manufacturing sectors.
- Focus on sustainable manufacturing: India has emerged as the world’s fourth-largest producer of renewable energy.
- Technological advancements: The adoption of digital technologies such as Industry 4.0 and IoT has improved efficiency and productivity.

Some of the missed opportunities by India during the last decade are:

- Job creation: Despite promises to generate millions of jobs, India has experienced a significant rise in unemployment, with rates reaching the highest levels in 45 years.
- Lower investment in skill development: India’s education system has not kept pace with the needs of a modern economy. The National Skill Development Mission, launched in 2015, came too late. As a result, many young people lack the necessary skills for gainful employment.
- Losing share in labour-intensive sectors: While initiatives like Make in India aimed to boost manufacturing, India missed opportunities to build large-scale capacities in labour-intensive sectors like textiles and garments.
- Less focus on R&D: India has not sufficiently increased public investment in R&D limiting the country’s ability to compete globally in high-tech industries.

“The National Manufacturing Mission announced, along with policy support for clean technology manufacturing, will further solidify India’s position as a global manufacturing hub. The government’s focus on domestic value addition, with a focus on manufacturing of EV batteries, solar PV cells, and electronics, is a step towards enhancing self-reliance and sustainability. The emphasis on skill development through initiatives such as establishing National Centers of Excellence aligns with the need for a highly skilled workforce in Industry 4.0. This, along with targeted policies for MSME growth and global supply chain integration, will create new opportunities for businesses like ours,” commented Gujral.

As part of this initiative, clean-tech manufacturing will be promoted to enhance domestic value addition. According to **Jayadev Galla, Chairman and Managing Director, Amara Raja Energy & Mobility Ltd (ARE&M)**, the government’s emphasis on clean-tech manufacturing—including solar PV cells, electric vehicle (EV) batteries, and wind turbines—underscores its unwavering commitment to the

Make in India vision. "While the National Manufacturing Mission represents a crucial step in strengthening domestic manufacturing capabilities, targeted incentives for lithium-ion battery production, along with R&D support for emerging sectors in the energy transition—such as electronics and EV components for solar energy—will help India accelerate its efforts toward realising the Make in India initiative," he adds.

The budget 2025-26 has reinforced the government's commitment to strengthening India's rail infrastructure and operational efficiency. The ₹2.9 trillion allocation, a 12 per cent increase from last year, supporting 300 new Vande Bharat trains, modernisation of 1,200 stations, 100 per cent route electrification, and bullet train expansion, will drive key developments. "Investments in freight corridors and AI-driven Kavach safety systems will enhance logistics and passenger safety, while the focus on rail MRO capabilities ensures long-term reliability. Additionally, export-driven initiatives under the National Manufacturing Mission and Export Promotion Mission will bolster India's global competitiveness, opening new avenues for manufacturers and aligning with the Viksit Bharat vision," stated **Umesh Chowdhary**, Vice Chairman & MD, Titagarh Rail Systems Ltd.

According to him, the creation of a ₹250 billion Maritime Development Corpus, along with revamped shipbuilding financial assistance, is expected to empower Indian companies to invest in modern vessels, advanced technology, and infrastructure, ultimately making them more competitive in the global market.

The budget has laid down a clear map for India's energy transition by prioritising domestic clean-tech manufacturing, power sector

Table 1: Major PLI Schemes (₹million)

PLI for Industries	FY23	FY24 (A)	FY25 (RE)	FY26 (BE)
Ministry of Electronics and Information Technology - PLI for Large Scale Electronics and IT Hardware	--	42,844	57,770	90,000
Department of Heavy Industry - PLI Automobiles and Auto Components	57	26	3,469	28,189
Department of Pharmaceuticals - PLI Pharma	14,250	16,044	21,505	24,449
Ministry of Food Processing Industries - PLI for Food Processing	4,898	5,905	7,000	12,000
Department of Industrial Policy and Promotion - PLI for White Goods (ACs and LED Lights)	35	742	2,136	4,445
Ministry of Steel- PLI Scheme for Specialty Steel in India	--	24	550	3,050
Department of Heavy Industry - PLI for Advanced Chemistry Cell (ACC) Battery Storage	17	77	154	1,558
Ministry of Civil Aviation - PLI Drone and Drone Component	300	312	570	--
Ministry of Textiles - PLI Textiles	71	41	450	11,480
Total Outlay	19,628	66,016	93,604	1,75,171

Source: Union Budget Documents; CareEdge

Note: (A): Actuals; (RE): Revised Estimate; (BE): Budget Estimate



The Indian manufacturing sector has the potential to become a global hub by fostering innovation, enhancing resilience, and leveraging digital transformation. 🤖

S Sunil Kumar, Country President,
Henkel India

reforms, and electric mobility. **Raju Kumar, Partner and Energy Tax Leader, EY India** said, "The National Manufacturing Mission for clean tech is a crucial step in reducing import dependence for solar PV cells, wind turbines, and battery storage, supporting India's goal of energy self-sufficiency. Lower customs duties on solar modules, lithium-ion battery waste, and critical minerals

will enhance cost competitiveness and encourage local manufacturing."

Similarly, the Nuclear Energy Mission, targeting 100 GW by 2047, could be a game-changer, as nuclear can provide round-the-clock clean power. "However, the success of private sector participation, facilitated by proposed amendments to the Atomic Energy Act, will depend on clear regulatory frameworks and risk-sharing mechanisms. The investment in Small Modular Reactors (SMRs) with an outlay of ₹200 billion is a forward-looking step, with the potential to enhance energy security," noted **Raju Kumar**.

On February 21, 2025, while addressing the 69th Foundation Day of All India Management Association (AIMA), **BVR Subrahmanyam, CEO, NITI Aayog**, the National Manufacturing Mission, which will coordinate with more than 20 ministries on manufacturing related

policies, will be launched in three months. While the mission takes its shape, there is already plenty of opportunity to explore.

Neighbour's envy, India's gain

Supply chain disruptions, influenced by global uncertainties and import dependencies, are pushing manufacturers to focus on resilience and localisation. Sunil Kumar informs, "Dependence on global supply chains has exposed vulnerabilities. Indian manufacturers should focus on increasing localisation to mitigate risks, as Henkel is doing by sourcing raw materials locally and transitioning from imported finished products to domestic manufacturing. This also supports the Make in India initiative and creates jobs."

The growing demand for product customisation and personalisation requires manufacturers to embrace flexibility and innovation. Digital transformation is reshaping the sector, though challenges in implementation and workforce readiness persist.



The government's emphasis on clean-tech manufacturing—including solar PV cells, electric vehicle batteries, and wind turbines—underscores its unwavering commitment to the Make in India vision.

Jayadev Galla, CMD, Amara Raja Energy & Mobility Ltd

Tension between China and developed countries (led by the US and European countries) has been increasing in the last few years. This geopolitical tension has also contributed to India's emergence as

a preferred manufacturing destination. The focus on supply chain diversification by global players has opened new opportunities for Indian manufacturers to expand their capabilities and extensively cater to international markets. Gujral elaborates, "The ongoing geopolitical dynamics present India with a unique opportunity to solidify its position as a global design and manufacturing hub. With multinational companies seeking to diversify their supply chains, India stands out for its cost advantages and skilled workforce. Strategic trade partnerships with countries like the US and EU will further enhance India's appeal as a preferred destination."

Geopolitical issues have influenced global trade and supply chains. Industry and the government should take adequate measures to take advantage of the evolving global marketplace. Gujral adds, "To strengthen India's electronics manufacturing ecosystem, significant investments in infrastructure development are imperative. Establishing manufacturing parks and logistics hubs through public-private partnerships will enhance supply chain efficiency. Simplifying labour laws, application and reimbursement procedures for schemes like PLI and providing faster clearances will encourage more investments in the sector."

Excelling manufacturing

The outlook for India's manufacturing sector over the next five years is promising, driven by government initiatives, increased foreign investment, and a growing domestic market. The government is taking continuous efforts to ensure regulatory stability and simplify compliance. Modern, multimodal logistics networks are critical for supply chain efficiency. Hence, the government is focusing on fast-tracking infrastructure projects like dedicated freight corridors, advanced

ports, and efficient warehousing facilities. These incentives can improve India's competitiveness.



Export-driven initiatives under the National Manufacturing Mission and Export Promotion Mission will bolster India's global competitiveness, opening new avenues for manufacturers and aligning with the Viksit Bharat vision.

Umesh Chowdhary, VC & MD, Titagarh Rail Systems Ltd

The Indian manufacturing sector is projected to grow from \$ 310.30 billion in 2024 to \$ 523.70 billion by 2029, reflecting a compound annual growth rate (CAGR) of 9.11 per cent, and presenting ample growth opportunities for all. "Sectors such as electronics, automotive, and pharmaceuticals are expected to drive growth. For instance, the electronics manufacturing sector is projected to quadruple to \$ 450 billion by FY 2029-30, with a CAGR of 25 per cent. The government's PLI schemes are designed to bolster these sectors further," states Amitabh Kant.

Ongoing investments in infrastructure, including industrial corridors and smart cities are expected to further enhance the manufacturing ecosystem, making it easier for businesses to operate efficiently and competitively. Sunil Kumar comments, "The Indian manufacturing sector has the potential to become a global hub by fostering innovation, enhancing resilience, and leveraging digital transformation. With collaborative efforts from both industry and government, India can navigate global uncertainties and emerge as a leader in manufacturing excellence."

SME



A Flight Towards Innovation

India's drone manufacturing industry is on a fast track to becoming a global leader, driven by innovation, supportive government policies, and growing demand. With applications spanning defence, agriculture, surveillance, and logistics, Indian companies are rapidly developing indigenous drone technology, says **Sanskriti Ramachandran**.



Source: Freepik

In the vast expanse of India's skies, a transformation is unfolding, one that promises to redefine industries, reshape economies, and reimagine possibilities. The Indian drone industry, once an overlooked segment, is now soaring to new heights, fuelled by a blend of ingenious technology, government support, and entrepreneurial spirit. In 2022, the sector was valued at \$2.71 billion, and by 2030, it is expected to grow to \$13 billion, with a CAGR of 22 per cent. This rapid expansion is not just about machines taking flight; it is about India positioning itself as a leader in drone innovation, manufacturing, and application across various sectors.

Drones are no longer futuristic novelties; they are becoming indispensable tools in agriculture, infrastructure, logistics, and defence. In agriculture, precision farming using drones is transforming how farmers monitor crop health, conduct land surveys, and apply pesticides with remarkable efficiency. Meanwhile, infrastructure inspections have become safer and more efficient with drones surveying power lines, bridges, and pipelines. The economic potential of drones extends far beyond these applications, leading to increased investments and a focused policy push from the government to harness their full potential.

Government-led growth initiatives

The Indian government has implemented a multi-faceted approach to stimulate growth in the domestic drone sector, combining regulatory reforms with financial incentives and strategic initiatives. One of the

most significant policy measures is the restriction on the import of foreign-made drones, except for research, defence, and security applications. This move aims to strengthen India's domestic manufacturing capabilities and support local startups.

Additionally, 90 per cent of Indian airspace has been designated as a "green zone," allowing drones to operate up to 400 feet without requiring security clearances for non-commercial purposes. This airspace liberalisation encourages more extensive drone usage across different industries. To further boost local production, the government introduced the Production-Linked Incentive (PLI) Scheme, allocating ₹1.2 billion over three years to provide manufacturers with a 20 per cent incentive on value addition.



Differential GST structures for various drones is severely impacting the market potential for drones in the country. Limited support for the ecosystem players also limits the investments flowing into these critical sub-segments of the drone industry.

Raghavan Viswanathan,
Partner – Deal Advisory, KMPG

To drive innovation, the Drone Shakti Initiative was launched in FY 2022-23, focusing on promoting drone-as-a-service (DrAAS) applications. This initiative is fostering the growth of drone-based solutions across industries. Additionally, regulations have been streamlined to reduce entry barriers for domestic startups and international investors. The government has also allowed foreign-controlled Indian companies to operate drones, making it easier for global players to enter the Indian market. With an ambitious goal of attracting \$600 million in investments over the next three years, these reforms are setting the stage for rapid advancements in drone technology.

Another significant change is the reform of pilot

There exists a large addressable opportunity for drones in India across applications

 Agriculture Spraying	 Solar Cleaning	 Thermal Inspection	 Chimney Inspection	 Mapping
• ~ 350 Mn acres farmland in India	• ~ 100 GW of installed solar capacity	• ~ 100 GW installed solar capacity	• ~ 35k factories in India with ~2 chimneys per factory	• ~6.6 lakh villages to be mapped under Svamitva scheme
Total addressable market* FY25 >>				
INR ~58k cr	INR ~670 cr	INR ~60 cr	INR ~450 cr	INR ~175 cr

* Addressable market refers to size of the overall opportunity

Source: KMPG

licensing. Ministry of Civil Aviation has replaced the traditional drone pilot license with a more accessible Remote Pilot Certificate (RPC), which can be obtained through government-approved drone schools. This change is expected to increase the number of trained drone operators in India, further accelerating industry growth.

"The drone industry is evolving rapidly, particularly in miniaturisation, endurance, and AI-driven capabilities. The key challenges include policy consistency, level playing field for mid-sized firms, and access to large-scale contracts. While government policies have evolved positively, further improvements in MSME participation and procurement rules would be beneficial. Our approach involves leveraging policy incentives, building a strong local ecosystem, and advocating for competitive fairness in technology-based bids. Policies supporting MSMEs, such as exemption from Earnest Money Deposits (EMD) and relaxed past experience requirements, have enabled us to participate in defence contracts. The push for Atmanirbhar Bharat has facilitated technology absorption, and further policy evolution can enhance opportunities for mid-sized companies like ours to contribute more significantly," says **Vikas Batra, Director, Aero A2Z**.



AI and machine learning are revolutionising drones, enabling autonomous flight paths, real-time decision-making, and smarter data processing. The rise of autonomous drones as well, including swarming technology and advanced obstacle avoidance systems, is driving greater operational efficiency.

Agnishwar Jayaprakash,
CEO and Founder, Garuda Aerospace

Transforming industries with drone technology

The growing adoption of drones is revolutionising industries across India. In logistics and e-commerce, companies are exploring drone-based solutions to enable faster and more efficient deliveries, particularly in remote regions. The healthcare sector is also benefitting, with drones being used to transport medical supplies, vaccines, and emergency aid to inaccessible areas.



Key trends include rising military UAV adoption for border surveillance, logistics, and tactical operations as India positions itself as a global drone hub.

Satyabrata Satapathy,
CEO, BonV Aero

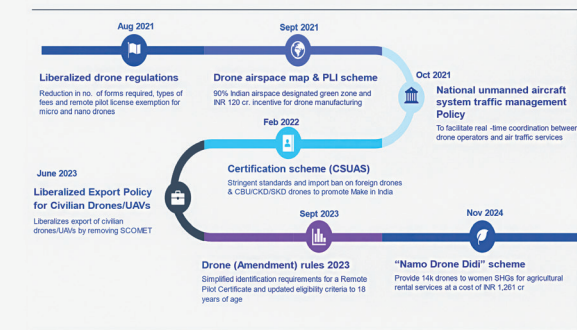
"As the industry advances, key trends include significant improvements in battery technology, such as the development of high-energy-density lithium-sulfur and solid-state batteries, which are extending flight times and enhancing drone capabilities. AI and machine learning are revolutionising drones, enabling autonomous flight paths, real-time decision-making, and smarter data processing. Additionally, the rise of autonomous drones, including swarming technology and advanced obstacle avoidance systems, is driving greater operational efficiency. Data analytics and edge computing are also becoming more integrated into drones, allowing real-time data processing for faster and more informed decisions. Furthermore, the integration of 5G and IoT systems is transforming drone connectivity, enabling seamless operations, remote control, and large-scale collaborative tasks. Lastly, as regulatory frameworks evolve, drones are increasingly being incorporated into commercial industries, ensuring safe operations and fostering growth in sectors like agriculture, logistics, and surveillance," says **Agnishwar Jayaprakash, CEO and Founder, Garuda Aerospace**.

Boosting R&D for future growth

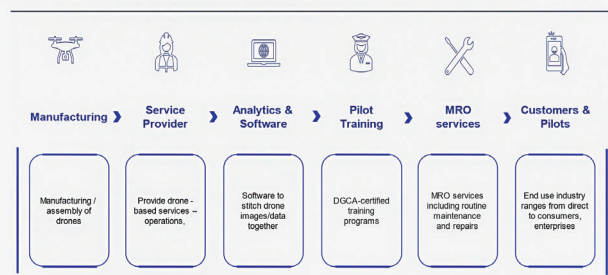
Research and development (R&D) play a critical role in sustaining India's progress in drone technology. Strengthening R&D capabilities will ensure that India remains competitive on the global stage.

"How and which advanced technologies are shaping drone manufacturing in India? AI, Li batteries, motor tech, and material science are the largest disruptors for drone manufacturers in India. The need to make drones lighter, smarter, and more efficient is a continuous process that gives manufacturers the edge over

Drone policy environment has matured significantly in India since the turn of the decade



There are very few Indian players who play across the drone value chain



Source: KMPG

competition," says **Raghavan Viswanathan, Partner – Deal Advisory, KPMG.**

Viswanathan highlights the need for a more robust R&D framework, The following measures could act as a boost for R&D in drones in India:

- Mandates to localise the supply chain and support the drone OEMs with additional PLIs or subsidies
- Certification programs and workshops can help build expertise in drone design, development, and operation
- PLIs for drone component manufacturers
- Mandatory allotment of funds from the start-up fund to the drone sector for R&D initiatives
- Establishing dedicated drone research and testing facilities, such as airstrips, flight labs, and prototyping centres, can provide an environment for innovation.

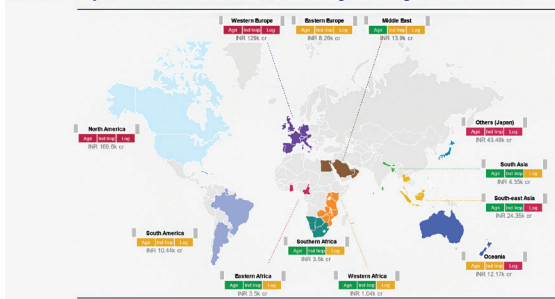
These facilities can support the design, development, testing, and certification of drones.

Overcoming regulatory challenges

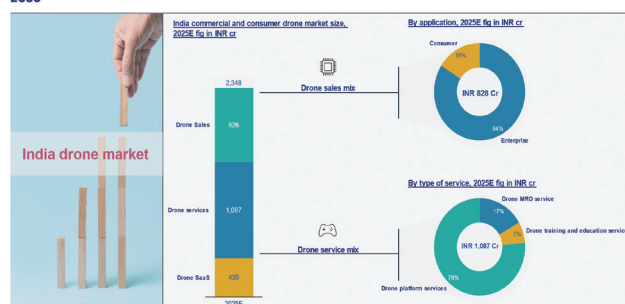
Despite the rapid expansion of India's drone sector, challenges remain, particularly in taxation and regulatory approvals.

"India's defence sector is rapidly advancing toward self-reliance and modernisation, with drones playing a pivotal role. Key trends include rising military UAV adoption for border surveillance, logistics, and tactical operations; AI-enabled warfare with autonomous UAV

Basis Indian drone OEMs' current capabilities and product pipeline, we see strong synergies with drone needs in many Asian and African markets, establishing a clear Right to Win



India's commercial and consumer drone market currently valued at -INR 2.3 k cr; projected to grow 4x by 2030



Source: KMPG

swarms enhancing battlefield strategy; growing private sector involvement with startups partnering with defence PSUs; and significant export potential as India positions itself as a global drone hub," says **Satyabrata Satapathy, CEO, BonV Aero.**



Vikas Batra, Director, Aero A2Z

High-flying future

India's drone industry is no longer just about innovation, it's about transformation on an unprecedented scale. With strategic government support, a surge in investments, and technological advancements, the sector is set to redefine the landscape of multiple industries. The nation is not just catching up with global leaders; it is on the verge of surpassing them. As India continues to break barriers in drone technology, the sky is no longer the limit, it is just the beginning.

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(Sources: KMPG, Wright Research)



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“Drones are the key to modern defence strategies.”

Garuda is committed to democratising drone technology, striving to make it accessible and affordable for individuals, businesses, and government agencies, remarks, **Agnishwar Jayaprakash, Founder and CEO, Garuda Aerospace** in an interview with **Sanskriti Ramachandran**.

Please brief us about your company's contribution to the industry

Garuda Aerospace is India's leading drone manufacturer, headquartered in Chennai. Garuda offers a comprehensive range of drones for various applications, specialising in the indigenous design and manufacturing of drones for diverse uses. In addition to manufacturing, the company also trains pilots and provide drones-as-a-service. The portfolio includes agricultural drones for precision farming, industrial drones for inspections and surveillance, defence grade drones for strategic operations, and custom-built drones for specialised needs.



Agnishwar Jayaprakash,
Founder and CEO,
Garuda Aerospace

What advancements have been made in terms of drone manufacturing?

Drone technology is evolving rapidly, with significant advancements in battery technology, flight control systems, payload capacity, and AI-powered analytics. At Garuda Aerospace, we invest heavily in R&D to stay ahead of these trends. Our dedicated team of engineers and researchers continuously explores and integrates the latest technologies into our products. We actively participate in industry events, collaborate with research institutions, and monitor global advancements to ensure our drones remain cutting-edge and meet the evolving needs of our customers. We are particularly focused on developing drones with enhanced autonomy, improved data analytics capabilities, and greater integration with other technologies. As the industry advances, key trends include significant improvements in battery technology, such as the development of high-energy-density lithium-sulfur and solid-state batteries, which are extending flight times and enhancing drone capabilities. AI and machine learning are revolutionising drones, enabling autonomous flight paths, real-time decision-making, and smarter data processing. Additionally, the rise of autonomous drones, including swarming technology and

advanced obstacle avoidance systems, is driving greater operational efficiency. Data analytics and edge computing are also becoming more integrated into drones, allowing real-time data processing for faster and more informed decisions. Furthermore, the integration of 5G and IoT systems is transforming drone connectivity, enabling seamless operations, remote control, and large-scale collaborative tasks.

What are the most critical challenges in drone manufacturing and how does your company address them?

Several challenges exist, including the high cost of components, ensuring reliability and safety, regulatory hurdles, and developing skilled personnel. At Garuda Aerospace, we address these challenges through strategic partnerships with component suppliers, rigorous quality control processes, and close collaboration with regulatory bodies. We also invest in training programs to develop a skilled workforce for drone manufacturing and operations. Our goal is to build a strong ecosystem that covers the entire value chain, from component sourcing to after-sales support. Scalability and affordability are key priorities for us, and we continuously optimise our manufacturing processes to achieve these objectives.

Can you elaborate on the integration of drone technology with existing defence systems?

Drones are becoming increasingly integral to modern defence strategies, offering a cost-effective and flexible solution for reconnaissance, surveillance, target acquisition, and even combat operations. At Garuda Aerospace, we are developing drones that can seamlessly integrate with existing defence systems. This involves ensuring interoperability, secure communication, and robust data sharing. Our focus is on building specialised

defence drones with longer endurance, advanced sensors, and strong security features. We understand the sensitive nature of defence applications and prioritise security and confidentiality in our development processes. Recently, at AERO India 2025, we launched eight defence-focused drones and signed key partnerships with companies like Tata Elxsi and HFCL to further strengthen our capabilities.

In the Indian market, the demand for drones in defence is growing rapidly, driven by the increasing focus on modernising the armed forces and enhancing national security. The Indian government's push for 'Atmanirbhar Bharat' (self-reliance) and the implementation of the Make in India initiative have further accelerated the local development and manufacturing of defence drones. This shift towards indigenisation is creating opportunities for Indian defence companies to partner with global leaders in technology, ensuring that the nation becomes less dependent on foreign imports.

Additionally, the Indian defence sector is investing heavily in technologies like artificial intelligence, machine learning, and automation, which are enhancing the capability of drones in performing critical operations like surveillance in difficult terrains, monitoring borders, and counter-terrorism activities. Drones in India are also being increasingly used for disaster management, search-and-rescue operations, and logistics, providing comprehensive solutions to complex defence needs. The growing adoption of drones in India's defence strategy, along with supportive government policies and initiatives, is set to position the country as a significant player in the global drone defence market.

How are you helping in making India a drone manufacturing hub?

Garuda Aerospace is a prime example of the Atmanirbhar Bharat and Make in India spirit. We are committed to the indigenous design, development, and manufacturing of drones locally, sourcing components within India whenever possible, and strengthening the domestic supply chain. By creating jobs and fostering technological self-reliance, we are contributing to India's vision of a self-reliant and prosperous nation. Our focus on R&D and innovation aligns perfectly with the Viksit Bharat 2047 vision. We are also playing a crucial role in making India a drone manufacturing hub by showcasing our capabilities, attracting investment, and promoting the adoption of drone technology across various sectors. Our recent commitment of Rs 1 billion towards building a Drone City further reinforces our dedication to Atmanirbhar Bharat and the future of India's drone ecosystem. In the Indian market, the government's push for self-reliance and its initiatives like Atmanirbhar Bharat, Make in India, and Viksit Bharat 2047 are directly

driving the growth of the drone manufacturing sector. The Ministry of Civil Aviation (MoCA) has released a progressive Drone Policy that encourages domestic innovation and has created favourable conditions for local drone manufacturers. Policies such as the Production-Linked Incentive (PLI) scheme are boosting the domestic manufacturing sector by offering incentives to companies that manufacture drones and components within India. The demand for drones in industries like agriculture, defence, logistics, and surveillance is increasing rapidly, providing Indian manufacturers with a vast market to cater to. Additionally, with India's growing focus on becoming a leader in the drone technology space, there has been an increase in government-backed partnerships, collaborations with global tech players, and industry-specific innovation hubs, all aimed at enhancing India's manufacturing capabilities and positioning the country as a drone technology hub. As part of this, the development of a drone city and strengthening the local supply chain will ensure that India remains at the forefront of global drone innovation and a self-sustained leader in the industry.

What are your plans for investment, facility expansion and exports?

We have ambitious plans for expansion. We are continuously investing in expanding our manufacturing facilities, increasing our production capacity, and strengthening our R&D capabilities. To accelerate this, we are also exploring strategic partnerships and collaborations. Exports are a key focus area for us.

We believe Indian-made drones have significant potential in the global market, and we are actively exploring opportunities to expand into countries like Australia, South Africa, and Sri Lanka. Our goal is to position India as a leader in drone technology and make India the go-to destination for drones worldwide.

What is your future outlook for India's defence sector?

We believe the future of India's defence sector is heavily reliant on technological advancements, and drones will play a crucial role. Their integration into surveillance, reconnaissance, combat, and logistics will continue to grow. The focus will be on developing more autonomous, intelligent, and resilient drone systems to meet evolving defence needs.

We are confident that India will emerge as a global leader in drone technology, and Garuda Aerospace is committed to contributing to this vision. With the government's push for modernisation and self-reliance, combined with the innovation of Indian companies, the defence landscape is set for a major transformation. 



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"India aims for global drone export leadership."

The Indian drone industry has the potential to emulate the remarkable successes observed in the automobile sector in the forthcoming years, opines, **Raghavan Viswanathan, Partner – Deal Advisory, KPMG** in an interview with **Sanskriti Ramachandran**.

How would you describe the current state of drone manufacturing in India, and what are the key growth drivers?

Drone manufacturing in India is still at an extremely nascent stage given the component ecosystem predominantly lies outside the country. Drone firms in India continue to be assemblers than an integrated product manufacturer. However, the outlook for the industry is extremely positive with it ticking the 4 key boxes required for any sunrise sector-

- It should solve a real-world problem and be value additive to the end user
- Possess multi-dimensional use cases
- Presence of a vibrant supply ecosystem including start-ups willing to invest
- Regulatory push

With these tailwinds, the commercial drone market which stands at approximately ₹23 billion in FY25 is expected to grow at least four-folds in the next 5 years.

How have government initiatives like Atmanirbhar Bharat and Make in India influenced the domestic drone manufacturing sector?

Drone imports were banned by the government in 2022 to encourage local manufacturing which in turn brought a wave of investments into drone start-ups in the country. The government continues to back the industry, especially in agricultural use cases with drones being mentioned several times in the annual budget speeches of late. It is critical we develop a local ecosystem of component suppliers and MROs for drones to completely utilise its potential in the Indian market.

How and which advanced technologies are shaping drone manufacturing in India?

AI, Li batteries, motor tech and material science are the largest disruptors for drone manufacturers in India.



Raghavan Viswanathan,
Partner – Deal Advisory,
KPMG

The need to make drones lighter, smarter and more efficient is a continuous process that gives manufacturers the edge over competition.

What is the effect of lack of localisation on imported components?

With no domestic ecosystem of components, we leave ourselves open to supply chain disruptions from source markets and limited ability to adapt the technology for India specific use cases. This also limits the innovations that are possible within the drone industry in India since R&D's focus can only remain on cost reduction and developing new applications rather than value addition and IP creation.

What regulatory hurdles are currently impacting drone manufacturing and deployment in India?

Differential GST structures for various drones (5-28 per cent based on end applications), is severely impacting the market potential for drones in the country. Limited support for the ecosystem players i.e. component manufacturers, MROs, pilot training academies also limits the investments flowing into these critical sub-segments of the drone industry. Additionally, BVLOS guidelines and unavailability of Unmanned Aircraft System Traffic Management (UTM) protocols have also limited the use cases for drones in India severely impacting its market potential and innovations in the sector.

Possible solutions would include:

- Enhancing financial incentives: Extend government-backed projects to stimulate demand across various industries beyond agriculture. Faster clearances for trusted players: Domestic manufacturers with secure, compliant drones should get priority approvals.
- Upgrading digital sky platform: Modernise the

platform to enable real-time digital approvals, minimising bureaucratic delays.

- c. Prioritising trusted players: Grant priority approvals to domestic manufacturers who produce secure and compliant drones



With no domestic ecosystem of components, we leave ourselves open to supply chain disruptions from source markets and limited ability to adapt the technology for India specific use cases. This also limits the innovations that are possible within India.

How can India enhance its research and development capabilities to drive innovation in drone technology?

The following measures could act as a boost for R&D in drones in India:

- a. Mandates to localise the supply chain and support the drone OEMs with additional PLIs/ subsidies
- b. Certification programs and workshops can help build expertise in drone design, development, and operation.
- c. PLIs for drone component manufacturers
- d. Mandatory allotment of funds from the start-up fund to the drone sector for R&D initiatives
- e. Infrastructure development: Establishing dedicated drone research and testing facilities, such as airstrips, flight labs, and prototyping centres, can provide an environment for innovation. These facilities can support the design, development, testing, and certification of drones.
- f. Collaboration with academic institutions: Institutions like IIT Kanpur and IIT Mandi are playing a crucial role in advancing drone technology. Strengthening partnerships between academic institutions, government bodies, and industry can foster innovation and provide the necessary infrastructure for research and development.
- g. Developing home-grown technologies and reducing dependence on foreign imports can strengthen India's drone ecosystem. Indigenous solutions, such as the Vehicle-Mounted Counter-Drone System, showcase India's capability to innovate and address modern challenges.

What's your vision for India's drone manufacturing industry in the coming years?

The Indian drone industry has the potential to emulate the remarkable successes observed in the automobile sector in the forthcoming years. Our goal extends beyond achieving self-sufficiency in drone manufacturing; we aim to become a prominent global exporter of drones. By targeting markets in South Asia and Africa, which share similar drone specifications for agricultural and industrial applications, we can establish a robust international presence.

Our strategy should encompass the following key components:

- **Strengthening domestic capabilities:** By fostering innovation and investment in research and development, India can enhance its domestic drone manufacturing capabilities. This includes the development of advanced technologies and the establishment of modern production facilities.
- **Policy and regulatory support:** Government policies and regulations play a pivotal role in shaping the drone industry. Continued support through streamlined approval processes, financial incentives, and favourable regulations will create an enabling environment for growth.
- **International collaboration:** Partnering with global leaders in drone technology can accelerate the transfer of knowledge and expertise. Collaborative efforts can lead to the development of advanced drone solutions tailored to the specific needs of diverse markets.
- **Market expansion:** Identifying and targeting high-potential markets in South Asia and Africa will be crucial. These regions offer significant opportunities for the deployment of drones in agriculture, industrial inspections, logistics, and disaster management.
- **Focus on sustainability:** Ensuring that our drone solutions are sustainable and energy-efficient will enhance their appeal in global markets. Emphasising green technologies and eco-friendly practices will align with global trends towards sustainability.
- **Skill development and training:** Building a skilled workforce capable of designing, developing, and operating advanced drones is essential. Training programs and certification courses will ensure a steady supply of talent to drive the industry's growth.

By implementing these strategic initiatives, India can position itself as a leader in the global drone market, driving innovation, economic growth, and technological advancement.

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"India's drone policies have benefitted BonV Aero."

As a 100 per cent indigenous drone manufacturer, BonV Aero directly contributes to India's self-reliance in aerial mobility. Our facility is fully dedicated to drone production, and we actively support national defence through partnerships with the Indian Army, says **Satyabrata Satapathy, Co Founder, BonV Aero** in an interview with Sanskriti Ramachandran.

Please tell us about your contributions to the sector.

BonV Aero is pioneering aerial logistics solutions with high-payload VTOL drone platforms for defence and disaster response. We have deployed multi-million-dollar logistics drones for the Indian Army, supporting high-altitude operations. Our 30 kg payload drone set a world record at 19,000 ft altitude, demonstrating performance in extreme conditions. Our key contributions include supplying drones to the Indian Army. We are developing next-generation solutions ranging from 15-40 kg payload drones (currently in sales) to a 100 kg medevac drone (expected within two years) and a 500 kg STOL drone (targeted in three years). Notable recognitions include selection by Indian Army's Technology Board for a \$1 million grant and winning the Boeing Build Challenge 2023.



Satyabrata Satapathy,
Co Founder, BonV Aero

What advancements have been made in terms of drone manufacturing and how do you keep up with industry trends?

BonV Aero drives cutting-edge advancements through state-of-the-art manufacturing and rigorous R&D. Our facility ensures precision production and scalability. We have developed multi-utility payloads for logistics, para-dropping, emergency evacuation, and surveillance, with pilotless autonomous operation making our drones easy to deploy. We stay ahead in the industry with over \$3 million in R&D investment, partnerships with 15+ global tech firms leveraging expertise in AI, avionics, and material science, and collaboration with DRDO, HAL, and CSIR.

How do government policies impact your manufacturing and R&D strategies?

India's progressive drone policies have significantly influenced BonV Aero's growth. The PLI Scheme and

Make in India initiatives provide incentives for domestic drone production, helping us scale faster. As an approved supplier to the Indian Army, we align our development with the defence modernisation roadmap. Compliance with India's Drone Rules 2021 has streamlined permissions for testing and deployment.

Can you elaborate on the integration of drone technology with existing defence systems?

BonV Aero's heavy-lift drones seamlessly integrate into military logistics and combat support systems. Our drones feature interoperability with existing command and control networks, providing real-time operational intelligence. Advanced AI-based navigation allows GPS-denied operation for tactical missions. Our customisable payloads support surveillance and ISR, cargo resupply, emergency evacuation, and disaster relief with medical supply delivery. Our drones are designed for all-weather operations, functioning in extreme climates from the Himalayan Region to coastal zones.

How is your company contributing to What are your plans for investment, facility expansion, and exports?

BonV Aero is on a high-growth trajectory with strategic investments planned in technology, infrastructure, and international markets. We are developing advanced high-payload drone systems, including a 40 kg high altitude drone launching next year, a 100 kg medevac drone within two years, and a 500 kg STOL drone for long-range logistics in three years.

We are increasing our capacity to meet growing domestic and international defence demands while expanding international sales by targeting Asian, Middle Eastern, US and European markets. We are currently discussing with global agencies for UAV supply.

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Honeywell and AM Green to advance carbon capture and sustainable aviation fuel

Honeywell and AM Green signed a Memorandum of understanding (MoU) during India Energy Week 2025 to assess the techno-economic feasibility of producing sustainable aviation fuel (SAF) from ethanol, green methanol from various carbon dioxide (CO₂) emission sources, and green hydrogen. This collaboration underscores the alignment of Honeywell's portfolio to three compelling megatrends which includes the energy transition.

The companies will work together to identify opportunities to enhance India's energy security and:

- Reduce crude oil import dependence.
- Help position the country as a competitive global exporter of green methanol to aid shipping companies in adopting this low-emission alternative fuel.
- Help airlines in meeting CORSIA mandates for low-carbon, drop-in fuel replacements.

"The collaboration with AM Green will help advance India's low-carbon economy and create an ecosystem that supports the government's SAF blending mandates, positioning India as a global leader in alternative fuel innovation. By combining Honeywell's proven carbon capture technologies and ethanol-to-jet solution with AM Green's expertise in green hydrogen and ethanol production, we will pave the way for a sustainable future and reinforce our commitment to environmental stewardship," said Ashish Modi, President, Honeywell India.

Mahesh Kolli, Co-Founder and Group President, AM Green said, "We are delighted to partner with Honeywell, which is one of the world's largest



technology companies that is positively shaping the future of energy. This partnership demonstrates AM Green's emerging leadership position as a global clean energy transition solutions platform while contributing to India's ambition of emerging as an exporter of reliable, sustainable and lowest-cost green molecules and its derivatives accelerating industrial decarbonization globally."

The collaboration benefits Indian farmers by creating demand for ethanol feedstocks. It also aligns with the government's National Green Hydrogen Mission to boost green hydrogen production through green methanol for domestic and export use.

The feasibility study is expected to conclude by mid-2025, marking a critical step toward achieving large-scale decarbonization.

Bharat Forge and VEDA Aeronautics collaborate for unmanned systems

Bharat Forge Ltd (BFL), global aerospace and technology Indian company and VEDA Aeronautics (P) Ltd (VEDA), an Indian Aerospace & Defence company involved in development and supply of Unmanned Systems, have signed a Memorandum of Understanding (MoU) to develop Unmanned Aerial Vehicles (UAV) & other High-Speed Aerial Weapon

BHARAT FORGE



systems used in the battlefield. While VEDA has been engaged in shaping the unmanned system technology for defence services, BFL will supply the micro jet engines

used in these unmanned systems. The MoU is expected to play a vital role in leveraging each other's capabilities to strengthen India's defense capabilities and contributing to national self-reliance.

Guru Biswal, CEO-Aerospace Division, Bharat Forge said, "This MoU with VEDA is a testimony of our commitment to work for an "Atmanirbhar Bharat", and to create niche technologies that shall support Indian and Global requirements in the evolving technological landscape of warfare. BFL will focus on indigenous development of jet engines upto 400 Kgf thrust to power the unmanned systems developed for Indian defence forces. The 40 & 45 Kgf engines

developed by BFL are under serial production and will be used by VEDA for all defence projects.

Dipesh Gupta, Managing Director, VEDA Aeronautics, said, "We are thrilled to announce our strategic partnership with BFL aerospace which will supply small jet engines for all defence & other unmanned system projects of VEDA Aeronautics. This endeavor underscores our unwavering commitment to innovation, heralding a new era of technological advancement and strategic prowess in the aerospace domain specific to Long Range Combat UAV Systems, High Speed Aerial Targets and Multi Barrel Launched Jet Based UAV Systems.

Safran and BEL to manufacture HAMMER weapon in India

Bharat Electronics Limited (BEL) and France's Safran Electronics & Defense have signed an MoU to establish a joint venture for manufacturing, customising, sales, and maintenance of the HAMMER (Highly Agile Modular Munition Extended Range) weapon system in India. Known for its high precision and modular design, HAMMER is a combat-proven air-to-ground weapon compatible with platforms like Rafale and LCA Tejas.

The MoU was signed by **K V Suresh Kumar, Director- Marketing, BEL**, and **Alexandre Ziegler, Executive VP, Safran Electronics & Defence**, in the presence of **Manoj Jain, Chairman, BEL** and **Franck Saudo, CEO, Safran** at Aero India.

As part of the partnership, BEL and Safran plan to set up a Center of Excellence focused on enhancing India's defence capabilities, supporting manufacturing, engineering, and services like maintenance, repair, and

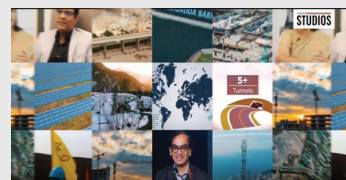


overhaul of optronics and navigation equipment for the Indian armed forces. Safran will implement a knowledge transfer program, with production shifting to India in phases, led by BEL's final assembly, testing, and quality assurance.

This collaboration aligns with India's Atmanirbhar Bharat initiative, aiming to establish a cutting-edge production facility in India, reduce import dependency, and strengthen the country's self-reliance and operational readiness in defence. 

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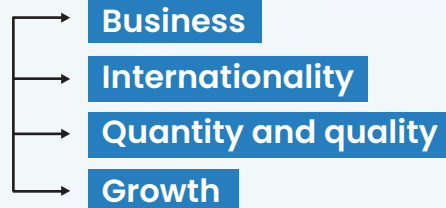
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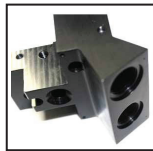


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AEROSPACE COMPONENTS

Swati Precision Tool Room supplies a wide range of aerospace components - air filter housing. The air filter housing is also referred to as a sand filter, Centrisep or inertial particle separator; it is a perfect solution for challenging operations.



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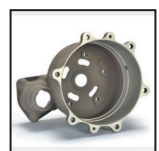


Contact:

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Hemkund Precision Engineering offers a wide range of CNC machined aero components. Hemkund has three vertical CNC machining centres (3-Axis) for series production of H\high precision machined components. Some of the components include parts for landing gear and mechanical components.



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MHE: Raising India's Supply Chain Efficiency

In today's rapidly evolving landscape, material handling equipment (MHE) is no longer just a support function, it is a strategic driver of growth and efficiency.



As businesses adapt to rising demands and tighter delivery timelines, the role of MHE in shaping supply chain excellence has never been more vital. As industries embrace automation and digitalisation, the demand for MHE solutions is skyrocketing. With a projected market size of \$310.9 billion by 2034, this sector is set to reach towering heights.

Market overview

The global MHE market, valued at \$178.2 billion in 2024, is set to expand at a 6.0 per cent CAGR over the next decade. The Asia-Pacific region leads the charge, accounting for 38.6 per cent of the market share, with \$68.8 billion in revenue in 2024. This dominance is fuelled by rapid industrialisation, e-commerce growth, and increasing investments in warehouse automation.

Key growth drivers

1. **E-commerce boom** – The logistics sector is evolving to meet rising online retail demands, pushing the adoption of automated storage and retrieval systems (AS/RS), conveyor belts, and robotic picking solutions.
2. **Automation and robotics** – Companies are turning to Automated Guided Vehicles (AGVs) and AI-driven warehouse management systems to streamline operations and reduce reliance on manual labour.
3. **Rising labour costs** – Workforce shortages and increasing wages are accelerating investments in

automated handling systems.

4. **Sustainability and efficiency** – The shift toward green logistics, energy-efficient equipment, and data-driven supply chains is determining the industry's future.

Market segmentation & competitive landscape

The MHE market is divided into four main segments. Storage and handling equipment holds a 25.3 per cent market share, driven by the rising demand for automated racking systems that enhance warehouse efficiency. Bulk material handling equipment is the largest segment, representing 30.1 per cent of the market, driven by the manufacturing and construction industries' need for efficient material movement and processing. Robotics and Automated Storage and Retrieval Systems (AS/RS) stand out as the fastest-growing segment, boasting an 8.1 per cent CAGR, as businesses increasingly prioritise automation to streamline operations and reduce labour dependency. Meanwhile, industrial trucks and lifts remain a core component of the market, essential for material transport within factories and warehouses.

Seven major companies control 26 per cent of the market, with Toyota Industries Corporation, KION Group AG, and Jungheinrich AG leading the competition.

Regional insights

- **Asia Pacific** – The fastest-growing region, expanding at **7.3 per cent CAGR**, driven by China and India's booming industrial sectors.
- **Europe & North America** – Experiencing steady adoption of warehouse automation, with projected growth rates of **5.8 per cent and 4.0 per cent CAGR, respectively.**
- **Latin America & MEA** – Emerging markets with high potential, as investments in industrial infrastructure rise.

The road ahead

Companies that embrace automation, sustainability, and smart technologies will lead the pack, while those hesitant to adapt may struggle to keep pace.

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LogiMAT Displays Innovative Solutions for Indian Logistics

More than 200 brands, including industry pioneers like Addverb, Craftsman Automation, System Logistics, Tata Motors, Godrej Korber, Anscer Robotics, Armstrong Dematic, and many more, unveiled 250+ trailblazing technologies at the exhibition.



Logimat inaugural ceremony

The backbone of India's development and fulfilling the vision of a \$5 trillion economy, India's logistics sector is witnessing unprecedented growth driven by dedicated government policies and public-private partnerships. At the Bombay Exhibition Centre, from February 13-15, in Mumbai, **Dr Anbalagan IAS, Secretary of the Industries Department for the Government of Maharashtra**, inaugurated the second edition of LogiMAT India 2025, the world's largest logistics and infrastructure satellite show.

As the landscape of India's logistics sector evolves, the potential for attracting substantial investments becomes increasingly evident. In an extensive survey and interactive session with more than 150 industry leaders at LogiMAT India platform, this industry survey projects investments of \$4 billion in India's logistics sector in the next three years. Although the LogiMAT India team expects this number to be much higher considering the promising logistics landscape in India and global leadership that the country is soon going to claim. Aligning closely with the Hon'ble Prime Minister Narendra Modi's vision of positioning India as a global logistics hub, LogiMAT India 2025 aims to enhance India's logistics capabilities, foster growth, and improve its global standing.

Shankar Shinde, Managing Director, Global Express Multilogistics, Chairman International Federation of Customs Brokers Associations, I P Chairman, Federation of Freight Forwarders

Association in India and V Chairman, Maharashtra Chambers of Commerce, Trade, Industry & Agriculture, Sascha Schmel, Managing Director Material Handling and Intralogistics, VDMA, Bernhard Müller, Vice President, Messe Stuttgart and Director, Messe Stuttgart India and Aditya Gupta, CEO, Messe Stuttgart India were also present at the inaugural session of the event.

While addressing the inaugural ceremony, Dr Anbalagan IAS, Secretary of the Industries Department for the Government of Maharashtra emphasised, "We have recently allocated 400 acres to a company, which is expected to begin construction in approximately 3 to 4 years. This project will involve an investment of around \$3 billion in Ratnagiri. The Ratnagiri-Sindhudurg region has great potential, particularly in agricultural products like mangoes and cashews, as well as marine products, which could establish it as a significant logistics hub. Additionally, we can develop around 15 to 20 nodes along the Samruti corridor from Nagpur to Mumbai. This means that if you are looking to invest in logistics over the next 10 years, there will be no need to go beyond Maharashtra, as the scale of work available will be substantial within the state."

Bernhard Müller, Vice President, Messe Stuttgart and Director, Messe Stuttgart India emphasised, "During the fiscal year 2023-24, India's trade relationship with Germany amounted to over \$26.10 billion, with Indian exports totalling \$9.83 billion. Meanwhile, imports from Germany hit \$16.27 billion. Germany shares close economic and trade ties with India. Leveraging India's geographic position, Messe Stuttgart India aims to enhance trade routes and strengthen its role in global supply chains through LogiMAT India 2025."

Groundbreaking solutions were unveiled at the event by industry pioneers such as Addverb, SICK India, Godrej Körber, Craftsman Automation, Godrej & Boyce, Tata Motors, Anscer Robotics, Armstrong Dematic, KION Group, Nilkamal Ltd., Ferag, Rubber King, Fronius, and many more. The show also spotlighted ingenious innovations at the Startup Pavilion which was

co-curated in partnership with Startup India.

LogiMAT India 2025 provided visitors with an exclusive platform to engage with a diverse mix of emerging Indian ventures and global leaders, offering a glimpse into the future of logistics and supply chain technology. The show enhanced knowledge exchange through its International Conference and Open Forum sessions, fostered innovation and strengthened industry collaborations, making it a key driver in shaping the future of India's logistics ecosystem. This impact was further amplified by strategic partnerships with organisations like Invest India and Gati Shakti Vishwavidyalaya.

Serving as the critical hub for discovering the latest logistics and supply chain technologies, LogiMAT India 2025 doubled its product showcase and launches from the last edition. The event's key highlights included Addverb's showcase of its expertise in industrial robotics and AI-driven technologies, which included a fleet of quadrupeds and cobots. These innovations aim to transform industries like consumer goods, retail, e-commerce, chemicals, pharmaceuticals, electronics, and new energy.

SICK India showcased live demos of its advanced distance sensors, machine vision, identification sensors and LiDAR technology. They also highlighted their cutting-edge safety solutions, demonstrating their commitment to innovation in industrial automation. Rubber King Tyre Group proudly unveiled their Make in India innovations, introducing three powerhouse pneumatic tyre models: Bahubali for Reach Stackers used in seaports, Vesper for Backhoe Loaders, and Airlift for Forklifts.

Anser Robotics exclusively showcased their Pallet Lifting Robot (PLR) at the show, which is an advanced autonomous solution for efficient material handling in manufacturing and warehousing. Designed for precision in lifting, transporting, and positioning pallets, the PLR reduces reliance on manual labour while enhancing operational efficiency. With smart navigation and customisable attachments, the PLR seamlessly integrates into diverse industrial workflows, addressing labour challenges and optimising logistics operations.

The Startup Pavilion at LogiMAT India 2025 empowered and enabled India's upcoming innovators to showcase and highlight their groundbreaking work to global audiences. Co-curated with Startup India, This Pavilion showcased a variety of innovative companies who demonstrated advancements in Augmented Reality, Virtual Reality, Artificial Intelligence, and Machine Learning. Highlights from the Startup Pavilion included - Wisflux Tech Labs unveiling Thouzer, which is a cutting-edge autonomous robotic cart set to redefine material handling.

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Addverb Unveils India's Largest Quadruped Trakr 2.0

Trakr 2.0, an advanced quadruped robot, is a versatile robot assistant capable of carrying payloads of up to 20 kg.

Addverb, a global leader in robotic and automation solutions, proudly introduces three cutting edge products at LogiMAT India 2025, taking place from February 13–15, at the Bombay Exhibition Centre, Mumbai. The unveiling includes India's first-ever largest assistive dog robot – Trakr 2.0, a high-order carousel automation system – HOCA, and an intuitive user interface – Brisk, all designed to revolutionise warehouse operations with increased efficiency, safety, and adaptability across various industries through innovative features.

Sangeet Kumar, Co-founder & CEO, Addverb, said, "The debut of Trakr 2.0, HOCA, and Brisk at LogiMAT India 2025 represents a significant milestone in our journey of innovation. After the overwhelming response to Trakr last year, we were inspired to develop Trakr 2.0—an even more powerful version with enhanced vision and gesture-based controls. Alongside this, our two new innovative solutions HOCA and Brisk are engineered to address the evolving needs of modern warehousing, offering unparalleled efficiency, precision, and adaptability. At Addverb, we are proud to drive innovation that not only sets new standards of performance but also redefines the concept of space and workplace efficiency."

- Trakr 2.0, an advanced quadruped robot, is a versatile robot assistant capable of carrying payloads of up to 20 kg. With features such as battery endurance of 90 minutes, stereo cameras for enhanced vision, and gesture-based commands, the quadruped robot offers a sophisticated yet user-friendly solution for material handling tasks.
- HOCA, the High-Speed Order Consolidation and Automation System, provides advanced batch picking capabilities, maximising space utilisation and operational flexibility. The HOCA system includes a versatile carousel with dimensions ranging from 5,900 mm to 46,700 mm, multiple carrier size options, and impressive payload capacities of up to 900 kg. Its modular design allows it to be easily integrated into a wide variety of existing warehouse setups, helping businesses scale seamlessly.
- Brisk, a user-friendly interface is designed to enhance



picking processes through innovative features such as gesture-based technology and glove-based EAN scanning. The intuitive interface of Brisk adjusts seamlessly to different lighting environments, ensuring smooth functionality in different warehouse conditions.

With the launch of new products and solutions, Addverb is ready to lead the future of robotics and automation. These solutions tailored for industrial and commercial applications; promise to transform the way industries operate. From intelligent warehouse systems to the pioneering quadruped designed for logistics and defence security, Addverb recently marked a significant milestone with plans to launch its first Humanoid Robot in 2025.

Addverb's unwavering commitment to quality has earned it a distinguished client roster, including Reliance, HUL, PepsiCo, Maersk, Mondial Relay, DHL, and Landmark, highlighting its reputation for delivering transformative automation solutions. With operations spanning the US, Europe, and Asia, Addverb is poised to redefine robotics in line with India's 'Make in India, Make for the World' and 'Atmanirbhar Bharat' initiatives, reinforcing the country's emerging leadership in global robotics and manufacturing.



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The Power of Behaviour Based Safety in Workplaces

BBS is important because it focuses on the human side of workplace safety. It highlights the need for open communication, involving employees, training and learning and positive feedback to reduce workplace risks, opines, **Suresh Tanwar, Head of Audit & Consultancy, British Safety Council, India.**



For modern businesses and workplaces that operate in dynamic environments, ensuring the safety and wellbeing of their employees must always be a top priority. However, it's not just about following rules and regulations.

Creating a safe workplace means building a culture where safety is part of everyday behaviour. That is where Behaviour-Based Safety (BBS) comes in. BBS is about understanding and influencing how employees act to prevent accidents and injuries in the workplace. Studies have shown that after a year of implementation, BBS programs can potentially reduce injury rates by about 29 per cent. According to researchers, after five years, the reduction rate increased to an average of 72 per cent; after seven or more years, the average reduction was 79 per cent. Here's a deep dive into how organisations can unlock the power of BBS in workplaces.

Understanding Behaviour-Based Safety (BBS)

Behaviour-Based Safety is an approach that focuses on observing and modifying employee behaviours to enhance workplace safety.

As per the Heinrich triangle, considered the cornerstone of the workplace health and safety philosophy, up to 88 per cent of work-related accidents involve human behaviour as a contributing factor. While traditional safety measures often focus on compliance and adherence to rules, BBS takes a step further by recognising that human actions and decisions can seminally impact safety outcomes.

The importance of BBS:

BBS is important because it focuses on the human side of workplace safety. It highlights the need for open communication, involving employees, training and learning and positive feedback to reduce workplace risks.

Figuring out why people might take risks helps in creating better safety plans. Some of the common reasons include:

Shortcuts to safety: For instance, employees might bypass safety procedures to save time, such as by neglecting to wear personal protective equipment (PPE) for tasks that seem minor.

Old habits: Long-standing but unsafe practices may persist simply because businesses continue with traditional work methods, which may, in some cases, be hazardous.

Supervisor influence: If supervisors overlook unsafe behaviours because they speed up task completion, it also reinforces those behaviours among employees.

The organisation must be on board with positive and responsible safety practices to create a workplace without accidents.

A solid Behaviour-Based Safety Programme is crucial for boosting safety performance and keeping employees committed to staying safe.

Steps for implementing an effective BBS programme:

Influencing safety behaviour can occur at various levels within an organisation and through different approaches. To turn the vision of an accident-free workplace into a reality, here are some steps

organisations must consider for a robust BBS programme:

- **Needs analysis** Conducting a thorough needs analysis is the first step. This involves engaging with senior leadership and representatives from various departments to assess current training processes, identify gaps, and evaluate the effectiveness of existing programmes.
- **Involving leadership and management** A successful BBS programme starts with solid leadership. Senior management must demonstrate a commitment to safety, set clear guidelines and lead by example. Their dedication sends a powerful message, encouraging employees to adopt safe practices.
- **Data collection and analysis** Behavioural data is crucial for driving change. Regular collection and analysis help identify safety trends and patterns, which help organisations, address issues proactively.
- **Employee engagement** Employees should be actively involved in safety initiatives. Providing channels for feedback, suggestions, and participation in safety committees helps foster a sense of ownership and accountability. Positive reinforcement, such as celebrating safety achievements or discussing lessons learned from near-misses, supports the importance of safety and encourages continued adherence to safe practices.
- **Customising training** A one-size-fits-all does not work when it comes to BBS programmes. They must be tailored to meet the specific needs of an organisation. Industry, function, and subject matter expertise are factors one must consider when designing a BBS programme to ensure the training is relevant and effective for that workplace.
- **Continuous improvement** A Behaviour-Based Safety programme should be dynamic and adaptable. Regular assessments and adjustments based on data, feedback and evolving conditions ensure that safety initiatives remain practical and relevant.
- **Programme delivery** Finally, the programme delivery typically begins with an industry-specific senior leadership training session, followed by training for functional and operational leaders. Building in-house capabilities through programmes like Train the Trainer (TTT) ensures ongoing support and continuous improvement.

Benefits:

- **Uncovers the root causes** BBS programmes focus on understanding and mitigating the underlying behaviours that lead to accidents. The result is proactive prevention and improved safety performance throughout the organisation.
- **Encourages employee ownership** By involving

employees in identifying and addressing safety concerns, BBS programmes create a sense of responsibility and commitment to safety. Equipping employees with qualifications like the NEBOSH General Certificate further enhances their ability to contribute to safety discussions and initiatives.

- **Builds a safety culture** Focusing on behaviours rather than outcomes helps create a positive safety culture where employees feel empowered to make a difference. This leads to long-term improvements in safety performance.
- **Tracks data for improvement** BBS programmes generate valuable data on behaviours and safety performance. This helps organisations track progress, identify trends and make informed decisions to enhance safety.
- **Boosts teamwork** Open communication and collaboration are central to BBS programmes. They help build trust and a supportive work environment where employees feel comfortable discussing safety issues.
- **Reduces costs related to accidents** By reducing the frequency and severity of accidents, BBS programmes can lead to significant cost savings, including reduced medical expenses, workers' compensation claims, and indirect costs such as lost productivity and damage to equipment.

Choosing the right partner to implement Behaviour-Based Safety programmes can make all the difference in building a safer workplace. It's best to associate with partner organisations that help develop a deep understanding of behavioural safety through their comprehensive training, such as BBS workshops, Train the Trainer sessions, and Safety Leadership Training for senior leaders. Such holistic programmes equip teams with the skills and mindset to identify, address, and influence safety behaviours. They, in turn, create a proactive environment where safety becomes everyone's responsibility.

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About the author:

Suresh Tanwar is the Head of Audit & Consultancy at British Safety Council, India and a qualified 'To be' Independent Director, having successfully passed the exam under the Indian Institute of Corporate Affairs (IICA) under the Ministry of Corporate Affairs.

While this accomplishment positions him for potential Board roles as an Independent Director, he is also a seasoned Safety Professional and strategist with decades of experience in Safety, Health, and Environment (SH&E). He has held senior management roles in leading multinationals and large Indian conglomerates and has been a member of the Executive Committees of several organisations. An active member of the CII National Safety Task Force Committee since its inception, Suresh has played a significant role in shaping safety policies and best practices. Before joining British Safety Council, India, he served as Chief - Group Safety & Health for the Tata Group of Companies.



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Prime Metallic High Speed Doors by Gandhi Automations

Prime Metallic Door provides a variety of applications, which include internal use as a partition between two rooms and external use as a secure hall closing door.

Traditional industry entrances do not provide the necessary protection for today's volatile security landscape. Normal Rolling Shutters do not mitigate tailgating and piggybacking, even when used in conjunction with access control devices. As a result, High Speed Doors are growing in popularity due to their ability to effectively control access while creating a clear trail, which is ideal for regulated industries.

High Speed Door-Prime Metallic is the unsung hero of warehousing facilities for any industry. Their top speeds, combined with top security, protect against unwanted burglars. Prime Metallic Door provides a variety of applications, which include internal use as a partition between two rooms and external use as a secure hall closing door. The door also ensures environmental separation, energy efficiency, and time efficiency, leading to hastening the logistics process.

Characteristics

Prime Metallic Doors fast opening and closing speeds sharply reduce the potential for tailgating, piggybacking, or people on foot sneaking in through the doorway. Door has an inbuilt inverter motion system to adjust different speeds, with progressive control of acceleration and deceleration during braking. High Speed Doors also reduce the potential



for accidents caused by material handling equipment. Opening speed of 2.5 m/s and closing speed of 0.5 m/s.

Prime Metallic door includes double-skinned aluminium alloy anodised with 40 mm polyurethane foam insulation. It is designed to provide sturdiness during the closed condition and also gives better separation between different working areas, is characterised by a thermal intensity, or is intended for different uses. The door reduces leakage of heat and air and preserves heat.

The contactless operation of the door leaf prevents surfaces from being scratched, while the optional transparent vision laths remain transparent even after extensive use. Additional features include the capacity to withstand wind pressure in Class IV, subject to standard EN 12424.

In high-traffic environments, these doors maintain a smooth flow of material handling equipment in and out of the warehouses while ensuring building security. The doors are designed with minimal maintenance, energy-efficient motors, and self-diagnostic controllers to ensure trouble-free, efficient operation day in and day out.

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For details, contact Gandhi Automations, Mumbai, on
Tel: +91 22 6672 0200, 6672 0300, or
Email: sales@geapl.com, or visit www.geapl.com

(Communication provided by the management of the company)

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G R Cranes & Elevators offers a wide range of gantry/goliath cranes. The common goliath/gantry crane design has been typically used in outdoor applications because it is very effective for projects where there is no current runway structure or building.



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Contact:

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SCI Storage Solution offers a wide range of double deep racking. These double deep racking stores two pallets deep, or four pallets deep in a double entry rack. Double entry racks reduce the aisle to rack ratio but also reduces pallet selectivity, increasing storage density.



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Contact:

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Email: info@scistorage.in

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Robotic Equipments offers a wide range of floor crane. Floor crane is a lifting and shifting equipment like a crane. It consists of a hook to lift the load from the ground and place it in a desired position. It is generally used to replace dies from a machine / press.



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Contact:

Robotic Equipments, Mumbai
022-26795164, 26795165
Mobile: 09323504517
Email: response@roboticmaterialhandling.com

JIB CRANE

DC Hoist & Instruments Pvt Ltd offers a wide range of Jib crane. It supply self supported and bracket mounted type Jib Cranes having a capacity 250 Kg to 10 Tons. The jib is available fully motorized including the slew or a combination.



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Contact:

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Bangalore
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Email: dchoistbng@gmail.com

INDEF POWERED CRANE KIT

Hercules Hoists Ltd offers a wide range of Indef powered crane kit. Crane Kits offered by Bajaj Indef are of global quality standards that come with all of the above-mentioned units along with a proven range of Indef Hoists.



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Contact:

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DOCK LEVELLER

Besto Material Handling Equipments offers a wide range of dock leveller. A dock leveller is an equipment used to level up the difference in height between a warehouse floor and delivery vehicle. It has an adjustable height which can be used for various vehicles.



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Contact:

Besto Material Handling Equipments,
Chennai
Mobile: 08048400240
Email: bestomaterialhandling@gmail.com

WIRE ROPE ELECTRIC HOIST

Jayco Hoist & Cranes Mfg Co, offers a wide range of wire rope electric hoist. These wire rope electric hoists are compact, rugged & elegant in appearance to accommodate specific requirements, flexible trolleys to negotiate small radius, high speeds & high lifts, hoists suitable for steel mill duty, foundries.



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Contact:

Jayco Hoist & Cranes Mfg Co, Dist Palghar
Tel: 09321313691
Email: jaycohoist@gmail.com



Brighter Days Ahead for Motion Controls Market?

It is projected the Americas will be the highest growing region in 2025, with an expected motion controls market growth rate of 3.5 per cent.

The global motion controls market contracted by -7.0 per cent in revenue terms during 2024, according to market intelligence specialist Interact Analysis. This follows a significant period of growth for the motion controls market between 2020 and 2023. Soft manufacturing demand was the primary cause of the decline. However, destocking by customers and channel partners following over-ordering in previous years also contributed substantially to a decrease in revenue seen during 2024.

Impact of over-ordering and destocking

The motion controls market saw widespread over-ordering and overstocking in 2021 and 2022. This was due to the Covid-19 pandemic driving supply chain disruptions and causing shortages. The result was panic buying, where customers placed big orders to secure the products they needed.

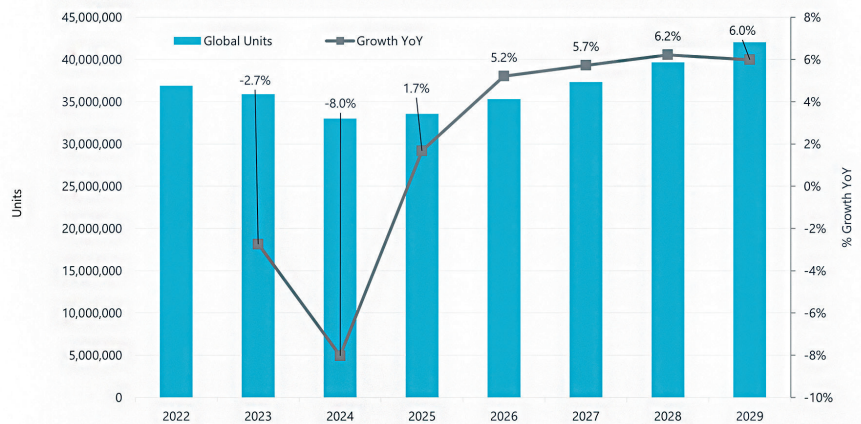
This has led to market-wide destocking since mid-2023, as companies altered their normal ordering habits instead choosing to use stock accumulated during the period of panic buying. Channel partners and customers halted orders with the aim of reducing their inventories, and this contributed greatly to the 2024 market contraction.

Market performance varies across regions

Overall, motion controls market growth dipped globally during 2023 and 2024. However, the market performance was mixed across the regions. The Americas performed best, although the market there still declined by -1.1 per cent in 2024. Softening interest rates and the US election taking place have reduced economic uncertainty which is expected to help reverse the dip. After a period of decline, it is projected the Americas will be the highest growing region in 2025, with an expected motion controls market growth rate of 3.5 per cent.

On the other hand, the EMEA region was the worst performing region in 2024, with a market contraction of

Global - Motion Controls Market - 2022 to 2028 - Units & % Growth YoY



Source: Interact Analysis

© Interact Analysis 2025

Motion controls revenues fell sharply in 2024, with the market expected to return to growth (albeit slight) in 2025.

-13.5 per cent in revenue terms. Ongoing conflicts, including the war in Ukraine, and the poorer performance of key markets for motion products such as Germany and Italy, have caused an economic downturn which Europe has been unable to shake off. Interact Analysis projects that the EMEA region will continue to perform poorly during 2025.

The future of the market is more positive

While the motion controls market has experienced the worst year in a decade, better times are around the corner. There is significant growth in the <60 V range of motion control products, which has been caused by rapid growth in the mobile robots market, increasing use of small payload industrial robots, and the general increase in industrial automation. Interact Analysis predicts that new vendors that haven't been active in the traditional motion controls market will also start to offer solutions.

Tim Dawson, VP Industrial Automation, Interact Analysis, says, "This de-coupling of manufacturing production and the motion control market growth is temporary, and we believe it will come in line again once inventories are brought to more normal levels and orders resume."

SME



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Fluid Power Paves the Way for Industry

With more than 4,000 exhibitors from all over the world, HANNOVER MESSE is the central platform for future-oriented solutions in industrial production. Drive technology and fluid power will play a special role this year.

Under the label of "Motion & Drives", the industry segments will once again showcase their strength and importance as the largest supplier branches in the international engineering business at HANNOVER MESSE 2025, the world's leading trade fair for industry will open its doors on March 31, 2025. Not only innovative and smart individual components but also complete systems will be presented.

For strongly export-oriented drive technology and fluid power companies, HANNOVER MESSE is the ideal platform to push their global business forward thanks to its highly international character.

"Given the general global conditions, HANNOVER MESSE has a special role to play this year, because this is where the global course for tomorrow's industrial production will be set," stated **Dr Jochen Köckler, Chairman and CEO of Deutsche Messe AG**. "In the areas of automation, digitalization and international cooperation, we offer a central platform on which drive technology and fluid power companies can showcase their pioneering concepts and provide decisive impetus for a resilient industry. At the same time, the highly international nature of the event opens up ideal opportunities for export-oriented companies to tap into new markets, acquire potential new customers, and strengthen their position in global competition in the long term."

Companies that have already registered their participation include Atos, Baumüller, Bosch Rexroth, Cantoni, Festo, Flender, HAWE, IMM Hydraulik, SEW-EURODRIVE, and Schaeffler. The manufacturers will present their latest applications and components for intelligent and sustainable production. All this, under the Motion & Drives label, will be focused in Halls 4, 5, and 6.

"With HANNOVER MESSE, we are offering exhibitors the opportunity to be embedded in a unique industrial innovation ecosystem. It is one in which companies from the engineering, electrical and digital industries as well as the energy sector present efficient and sustainable solutions for current and future industrial value creation. This mix of research, business, start-ups and politics is a guarantee for a consistently



L-R: Hartmut Rau (Dy MD, VDMA) and Dr Jochen Köckler (Chairman and CEO, Deutsche Messe AG)

high level of dynamic performance every year," said Dr Köckler.

"Power Transmission Engineering and Fluid Power components are key building blocks of machines – they provide power and movement, serve as a data source for digital value-added services, and play a decisive role in the performance of customer products. In 2025, HANNOVER MESSE with its 'Motion & Drives Community' will become a driver of innovation in the engineering business," emphasises **Hartmut Rau, Deputy Managing Director of the Machinery and Equipment Manufacturers Association (VDMA)** and responsible for the Power Transmission Engineering and Fluid Power Associations within VDMA.

Power transmission is facing challenges

The German power transmission engineering and fluid power sectors expect to close 2024 with a nominal decline in sales of around eight percent. Incoming orders are also running at this level, and there is a lack of urgently needed impetus to stimulate the market. Accordingly, the two industry sectors, which together account for a sales volume of around Euro 30 billion, continue to face a difficult economic situation.

This picture is representative of the entire engineering business. The industry is under sustained

cost and competitive pressure, and is reluctant to invest due to global uncertainties and challenging political conditions in Germany, the EU, and the rest of the world. Growth in the Chinese export market, which plays an important role for Power Transmission Engineering and Fluid Power, is also showing no signs of momentum.

Forecast for 2025 and the role of Hannover Messe

Neither sector expects any significant recovery in 2025, indeed they are anticipating a decline – albeit a more moderate one. It is therefore even more important that HANNOVER MESSE 2025 should serve as a platform to demonstrate the performance and innovative power of drive technology and fluid power to the world. The role of politics should not be neglected either: “There is a need to cut red tape and strengthen entrepreneurship. We need better framework conditions as well as free trade agreements and impetus in the innovation field. The research tax allowance is a good approach, and we are also focusing on expanding joint industrial research,” observed Hartmut Rauen.

Young talent and research activities as the key to the future

The members of the Power Transmission Engineering and Fluid Power associations are increasingly involved with the problems of securing young talent and the shortage of skilled workers. Through close cooperation with research institutions such as the Research Association for Drive Technology (FVA e.V.), the Fluid Power Research Fund and the Fluid Power Education Fund, pioneering research projects are being driven forward, and urgently needed graduates are being trained.

Digitalization will continue to be a key topic at HANNOVER MESSE. The publicly funded research project “Fluid 4.0”, which focuses primarily on the Asset Administration Shell (AAS) concept, is opening up new perspectives for the industry. OPC UA specifications are being developed in the area of Power Transmission Engineering to optimize data exchange in Power Transmission Engineering. Interfaces to the overarching topic of Manufacturing-X will also be addressed in order to design future data spaces for the industry, and to gear up the sector for the future.

Special Fluid Power 4.0 show

The special show in Hall 5, D44 at the heart of the “Motion & Drives” exhibition focus will prove to be the central meeting point for casting light on the future of fluid power and exchanging ideas and insights with experts. Exhibits and research activities on system control, energy monitoring, recycling management,

carbon footprints, and IoT integration will be presented. The exhibition will show what the path to even more efficient and productive fluid power looks like, and what added value digitalization brings for manufacturers and customers alike.

“Motion & Drives” Conference Stage: Transfer of Expertise and Networking

The Conference Stage in Hall 5, D32 will be the center for transferring expertise and networking in the fields of Power Transmission Engineering and Fluid Power. In the immediate vicinity of the special Fluid Power 4.0 show, sessions will be offered throughout the week dealing with specific topics on the latest developments in smart Fluid Power and Power Transmission Engineering. The program will be supplemented with topics focusing on Europe, India and Italy.

The joint stand for VDMA members and the information stands of the Power Transmission Engineering and Fluid Power associations together with their European sector committees CETOP and EUROTRANS, will be located in the immediate vicinity in areas E36 to E44. Seven member companies from the Power Transmission Engineering and Fluid Power sector and the Fluid 4.0 project will be exhibiting products, innovations and solutions at the joint company stand.

Canada as Partner Country of Hannover Messe 2025

Despite moderate growth of 1.1 to 1.3 percent in 2024, Canada’s economy is looking to the future. Rising sales expectations and decreasing capacity bottlenecks are giving companies grounds for optimism, while the cut in the key interest rate to 3.75 per cent is boosting investment. Opportunities are opening up in machine building in particular: the construction of battery plants such as that of the VW subsidiary PowerCo in Ontario is strengthening the demand for equipment and facilities for battery cell production, automation, and sustainable technologies.

Government subsidies are also driving investment in green technologies. Hannover Messe 2025 will offer a special platform to pick up on developments and underline Canada’s role in the engineering business.

The German drive technology sector recently exported Euro 174 million and that of fluid power Euro 93 million annually to Canada (engineering industry total Euro 2.2 billion). On the import side, on the other hand, only Euro 47 million was spent on drive technology and Euro 8 million on fluid power (engineering industry total Euro 322 million). Despite this comparatively small market size, Canada offers opportunities for growth. 

Article Courtesy: Deutsche Messe AG



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“ABB uses predictive maintenance technologies.”

Large and medium-sized businesses are transitioning from time-based maintenance to predictive and prescriptive maintenance. This shift is facilitated by advanced condition monitoring tools and systems, says **Amit Gupta, Division President- Motion Services, ABB India Ltd** in conversation with Rakesh Rao.

How have you seen the landscape of services evolve in India, and what are the key trends shaping the future ?

Industrial equipment servicing in India has gradually shifted towards proactive intervention. This change is driven by Original Equipment Manufacturers (OEMs), who are leveraging services as a unique selling proposition and revenue model. Simultaneously, end-users are demanding comprehensive lifecycle support for their equipment's optimal performance. Independent service providers, more so the OEM authorized service providers, are enhancing the service value chain with their expertise, agility, and competitiveness.

Large and medium-sized businesses are transitioning from time-based maintenance to predictive and prescriptive maintenance. This shift is facilitated by advanced condition monitoring tools and systems, many of which employ Industrial Internet of Things (IIoT) devices for real-time data collection. This data is then analysed using AI and Machine Learning tools to provide actionable insights, leading to improved performance, uptime, reduced operating costs, and optimised maintenance costs.

All the above is applicable for motors and generators as well, and for these rotating electric machines, the solutions are tending to be make agnostic brining convenience and benefits to the users

With the rise of Industry 4.0 and digitalisation, how is ABB leveraging predictive maintenance technologies to help industries prevent unplanned downtimes and optimise asset performance?

At ABB, we are harnessing predictive maintenance technologies to help industries minimise unplanned downtimes and enhance asset performance from many



Fabian Habel,
Director - Global Business
Development, Product Sales &
Launch, ifm electronic

years. Our ABB Ability™ LEAP program has been analysing and managing stator winding insulation conditions in high voltage motors and generators for over two decades.

In the era of Industry 4.0 and digitalisation ABB's predictive maintenance approach involves the use of Industrial IoT (IIoT), AI, and advanced analytics. By combining data from physical and soft sensors, ABB can predict anomalies in equipment health, performance, reliability, and operational parameters well in advance. This holistic asset performance management helps customers cut down operational costs by around 25 percent.

ABB's six-step approach to predictive maintenance includes gaining visibility of data, understanding gaps, analysing key trends, predicting faults, optimising maintenance strategies, and establishing a reliability culture.

What are the biggest challenges industries face in maintaining high uptime for motors and generators, and how does ABB's Motors and Generators Services address these challenges?

Industries today aim to focus on their core business while optimising asset utilisation and reducing workforce stress but often face challenges like unexpected equipment failures resulting in high operational costs. ABB's advanced Motors and Generators Services address these issues, offering sophisticated monitoring systems and IoT-enabled solutions that can be deployed on any make of machine, both old and new.

ABB Ability™ Machine Guardian performs online condition monitoring and current signature analysis, detecting anomalies early. For low voltage (LV) motors, ABB's smart sensor provides condition monitoring, using advanced analytics to preempt potential issues and prevent unplanned downtime.

These IoT systems facilitate the transition to data-driven maintenance practices. ABB also uses advanced technologies like the ABB Ability™ Air Gap Inspector, which is equipped with cameras to inspect the stator and rotor of motors and generators without removing the rotor. This enhances inspection quality and builds an extendable platform for further tests, inspections, and maintenance.

Over and above these, ABB's experienced team of field service engineers conduct various maintenance activities, backed by engineering, quality and project management experts.

What are outcome-based service models? How they differ from traditional models?

Outcome-based service models in the drive, motors, and generators service business are centered on delivering specific results, such as reliability, availability, and productivity. These models utilise digital solutions and data analysis to optimise performance and efficiency across various equipment, including motors, generators, and drives.

In contrast, traditional service models typically adopt a transactional approach, focusing on delivering services and charging based on the time or resources utilised. Traditional models often operate on a break/fix basis, providing services reactively in response to issues or failures.

How do ABB's motors and generators servicing solutions contribute to improving efficiency?

Energy efficiency and sustainability are indeed key priorities today. Electric motors, which consume over 45 per cent of the world's electricity, present a significant opportunity for energy conservation. There are more than 300 million electric motor-driven systems consuming 70 per cent of the total electricity consumed by industry. According to a study by the International Energy Agency, upgrading to high-efficiency electric motors could cut global energy consumption by up to 10 per cent.

In India, there is a significant scope for improvement as over 85 per cent of the installed base of motors are of IE2 efficiency or lower. Transitioning to higher-efficiency motors, specifically IE3 and IE4, which have significantly lower energy losses, is crucial. However, businesses are sensitive to ROI and wish to choose the right motors for replacement, considering factors like capital cost, energy rates, motor KW, operating load, operating hours, and reliability needs.

ABB's energy appraisal on motor-driven systems is a unique offering that helps customers estimate energy and CO2 emission savings, total investment, asset

prioritisation, ROI, and payback time by transitioning to higher efficiency solutions. We provide comprehensive reports using basic motor rating plate data and IIoT sensors on motors and offer complete appraisal and replacement solutions with ABB's offerings of IE4 and IE5 efficiency motors and the latest technology drives. We also offer to refurbish and upgrade existing low voltage motors to better efficiency, promoting the concept of circular economy.

How do you tailor your solutions to meet the unique demands of different sectors?

ABB adheres to and emphasises high level of safety standards, integrity, sustainability, and compliance across various sectors.

For manufacturing, we provide preventive and condition-based maintenance to enhance equipment performance and minimise disruptions. Our service engineers ensure regular maintenance, either on-site, remotely, or in specialised workshops.

In utilities, ABB focuses on compliance and efficiency, providing swift intervention and recovery services through our global network of over 600 service engineers. We ensure timely component replacement, maximising plant availability and minimising unplanned interventions.

For process industries, ABB offers digital solutions for improved decision-making and data-driven actions. Our digital suite includes asset performance management, condition monitoring, predictive maintenance, and advanced process control, enabling higher efficiency and productivity.

What is your future outlook?

The future of motors and generators servicing lies in co-creating tailored services based on the unique blend of customer type, equipment & application, and investing in resources. This co-creation would involve customers, OEMs, and service partners for maintenance, repairs, and digital offerings.

Innovative business models, such as Reliability/Availability as a Service (RaaS), performance-based contracts, Pay-per-use, and Equipment as a Service (EaaS), could evolve based on demand, value creation, and costs. Technologies like AI, ML, AR, VR, digital twin and 3D printing will continue to evolve the future.

India is in a prime position for creating service platforms where various OEMs and service providers offer services with clear accountability and service delivery KPIs. At ABB, we are already leveraging many of these technologies and venturing into new areas to create an ecosystem where value-based services can thrive, thus enhancing industrial productivity and reliability.



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Mayr Power Transmission Opens Plant in Halol

The new plant will produce safety brakes and clutches for the local market, ensuring safety and reliability in machines and systems.



The team from the Bavarian Allgäu region together with their Indian colleagues at the opening ceremony in 2024

Already since the 1990s, the well-established family business Mayr Power Transmission has been serving the Indian market via a sales partnership with a local authorised dealer. Recently, however, the globally active company has opened its own production plant in Halol near Vadodara in Gujarat. This means Mayr Power Transmission can produce safety brakes and clutches directly on site for the local market, ensuring safety and reliability in machines and systems. The up-and-coming Indian market is now well established in the high-tech segment in many areas.

Mayr Power Transmission has opened the next chapter in the company's 125-year history. In addition to the headquarters in Mauerstetten in Bavaria (Germany), Ostrzeszów in Poland (1994) and Zhangjiagang in China (2006), the long-established medium-sized company opened its fourth production facility in India toward the end of 2024. "The plant in Halol near Vadodara is not so much about breaking new ground in India," explained **Thomas Gebler, Director Sales for Mayr India**. "After all, we have worked successfully with a local sales partner there for more than 30 years. This valuable foundation has ensured that we have continued to develop and that our brand has achieved a certain level of recognition. So now it was time to take the next step."

By manufacturing locally, the expert for safety brakes, torque limiters and shaft couplings is now able to meet

the demand for Mayr products 'made in India' and thus serve the Indian market directly. "Our aim here is to create added value locally and to be able to supply the local market competitively," said **Ferdinand Mayr, CEO of the Mayr Group**. The up-and-coming region has already arrived in the high-tech segment in many areas, with applications such as in the fields of robotics and medical technology on the rise. "The global economy is in a state of constant change, now more than ever," summarised the CEO. "Market management is at times a balancing act that needs to be mastered."

Products meet global high quality standards

Mayr Power Transmission is a component manufacturer with the highest quality standards, as its products stand for safety and reliability in machines and systems. "With our strategy and our different plants, we are well positioned to master the complexity and different technological levels," said **Christian Tanner, Director Operations for Mayr India**. "By using the same test benches in all our plants, we can guarantee high quality standards locally and at the same time tap into cost potential for local markets." Thomas Gebler draws his conclusions about the advantages of the German-Indian cooperation and the objectives: "We combine the efficiency and meticulousness of the people from the Bavarian Allgäu region with the forward-thinking determination of our Indian colleagues to conquer the market with the highest growth rates worldwide."

The family company Mayr Power Transmission, founded in 1897, is a leading manufacturer of safety brakes, torque limiters and shaft couplings. These products are primarily used for electrically-powered machines and systems. They can be found amongst other things in filling plants, machine tools, packaging and printing machines as well as in elevators, wind power plants and in stage technology. Approximately 600 employees currently work in the Allgäu-based Headquarters in Mauerstetten, Germany. Mayr Power Transmission has over 1000 employees worldwide. The company is globally established with plants in Poland.

SME



WALTER Unveils Automated Tool Production System

WALTER customers can easily retrofit the Automated Tool Production (ATP) system in their existing production facilities without having to change the existing system layout.



WALTER's ATP system with the HELITRONIC VISION 400 L grinding machine and the HELICHECK PLUS measuring machine (both with ATP Robocell) as well as the ATP AMR mobile transport robot.

With the new Automated Tool Production (ATP) system, WALTER Maschinenbau GmbH, Germany, now offers an automation solution for cylindrical precision tools. ATP is the innovative solution for networking grinding, eroding and measuring machines from WALTER, but also for machines from other system partners upstream and downstream in the production process.

Increased efficiency, competition and a shortage of skilled workers make a higher degree of automation in industrial production absolutely essential. The new Automated Tool Production (ATP) system from WALTER requires no additional floor space, can be integrated into existing system layouts and is also suitable as an interface for machines from other manufacturers. WALTER works with strong partners to develop this automation solution.

Components

The system control is based on the OPC-UA data model FLAMES. It consists of at least one robot cell (ATP ROBOCELL) accessible from the front for automatic loading and unloading of the machines and at least one autonomous, mobile transport robot (ATP AMR) for transporting the workpiece pallets and individual parts between the storage and processing

stations. This also includes a standardized communication model between the machines and the ATP AMR transport robot, as well as a control system for higher-level data and process control.

Automatic tool processing, measuring and correction

WALTER customers can easily retrofit the ATP system in their existing production facilities without having to change the existing system layout.

A separate removal station for the in-process exchange of individual parts between the measuring and processing machine enables automatic correction and thus complete closed-loop processes. In the ATP ROBOCELL, a multi-range gripper contributes to the high flexibility of the system. It covers a large workpiece diameter range without changing the gripper unit and can exchange the collets at the same time.

"We have developed this innovative system in close cooperation with strong partners. Our expertise in tool machining and measurement and the know-how of our partners in automation now offers customers an automation solution that is state-of-the-art in every respect," explained **Simon Kümmerle**, Strategic Product Manager Grinding Technology, WALTER.

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“Klüber’s path in India has been marked by continuous growth.”

Klüber Lubrication in India has established itself as a trusted partner not only in the automotive sector but also across a wide range of industries facing challenges related to wear and friction says **Hitendra Bhargava, CEO & Regional Management Board Member- Asia Pacific, Klüber Lubrication** in an interview with **Rakesh Rao**.

How do you see the growth of Klüber in India over the years?

Klüber Lubrication has been a strong presence in India for over 25 years, consistently serving as a focal point for global lubrication solutions. Over the decades, we have made significant investments in our manufacturing footprint, research & development capabilities, and world-class quality standards. Our commitment to India has enabled us to better understand the evolving needs of Indian customers and provide innovative, high-performance lubrication solutions across diverse industries.

As part of our continued growth, we are making a



significant investment of ₹1.41 billion in a major upgradation of our Mysore plant. This expansion will not only enhance our manufacturing and R&D capabilities but also reinforce our commitment to the Make in India initiative. By strengthening local production, Klüber Lubrication is well-positioned to support customers seeking localised solutions while also enabling them to benefit from the government’s Production Linked Incentive (PLI) schemes.

Our journey in India has been marked by continuous growth, diversification of product offerings, and an expanding presence across multiple end-user industries. With a strong foundation and an unwavering commitment to excellence, we look forward to further strengthening our position as a trusted partner in India’s industrial growth story.

What is the market size of lubricants in India?

The Indian lubricant market consists of two distinct customer segments. The first group comprises customers who already recognise the advantages of specialty lubricants and are at the forefront of technology and innovation. The second group is in an evolving phase, still relying on commodity lubricants.

One of the major challenges with commodity lubricants is that they can limit customers’ ability to optimise their designs, enhance performance, or reduce costs. Specialty lubricant manufacturers like Klüber Lubrication play a key role in bridging this gap by demonstrating the benefits of advanced lubrication solutions, helping industries upgrade their designs to meet both current and future challenges.

For industries already accustomed to specialty lubricants, our focus is on continuously developing solutions that keep pace with evolving design requirements. A key example is the electric vehicle (EV) sector, where customers increasingly seek lubricants with lower torque and higher wear resistance to improve vehicle range and extend service life. Another growing

demand is for low-noise greases—as vehicle cabins become quieter, even minor vibrations and noise become more noticeable to the end user. Addressing this challenge, Klüber Lubrication provides advanced lubricant solutions that help mitigate noise, vibration, and harshness (NVH) issues.

With rapid industrial advancements and the push for innovation across sectors, Klüber Lubrication remains committed to supporting India's industrial growth by delivering high-performance, application-specific lubrication solutions.

What are key challenges facing the manufacturing industries today? How is your company helping them find solutions to these challenges?

Manufacturing industries today are navigating major trends such as efficiency, sustainability, and digitalisation—each presenting unique challenges. Klüber Lubrication has been at the forefront of delivering specialty lubrication solutions that enhance efficiency, optimise applications, and support sustainable industrial growth.

One of the critical challenges industries face is enhancing performance while reducing energy consumption. Klüber Lubrication actively addresses this by offering advanced solutions that improve friction reduction, noise damping, longer operational life and corrosion protection, enabling manufacturers to optimise designs and increase overall efficiency. Additionally, our expertise in energy monitoring and saving using DIN ISO 50015 methodologies allows us to track and quantify energy savings, helping customers achieve greater operational efficiency through our specialty lubricants.

Sustainability is another key focus area. Over the past several decades, Klüber Lubrication has been consistently recognised for its sustainability efforts. In 2024, we were awarded 'Leader' status in the 'Carbon Management Level' category by EcoVadis and have consistently won EcoVadis awards since 2021. Since our 2019 reference year, we have successfully reduced our Scope 1 and Scope 2 emissions by over 78 per cent. Our commitment extends beyond minimising our own carbon footprint—we actively assist customers in meeting their sustainability goals, including Scope 3 emissions reduction. As a pioneer in carbon footprint transparency, Klüber Lubrication provides detailed carbon footprint data for our products, enabling customers to make informed, eco-conscious decisions that align with their environmental strategies.

On the digitalisation front, we are leading the way by offering smart lubrication solutions that help customers monitor the performance of lubricants in real time.

These digital tools provide predictive maintenance insights, enabling timely interventions and reducing downtime.

By continuously innovating in these critical areas, Klüber Lubrication remains a trusted partner, helping industries overcome challenges and achieve greater efficiency, sustainability, and digital transformation.

How are you fulfilling the evolving needs of the auto industry?

The Indian automotive market is witnessing two major trends shaping the future of personal mobility. First, there is a significant shift towards Sports Utility Vehicles (SUVs), with an increasing number of customers preferring these vehicles for their comfort, luxury, and robust performance. Second, electric vehicle (EV) adoption is accelerating, driven by sustainability concerns and advancements in technology.

Both trends present unique challenges for vehicle designers, particularly in lubrication requirements. SUVs, with their higher loads and growing customer expectations for comfort, demand lubricants with superior load-carrying capabilities compared to previous generations. Additionally, modern consumers are prioritising safety and environmental considerations, making emissions and odor from lubricants a key factor in selection.

For EVs, range anxiety remains a critical challenge due to the current state of charging infrastructure. To address this, designers and engineers rely on Klüber Lubrication to enhance the efficiency of key components such as bearings and gearboxes. By optimising lubrication solutions, Klüber helps improve overall efficiency, ultimately extending the range of EVs.

As these transformative trends continue to evolve, Klüber Lubrication remains committed to delivering high-performance solutions that meet the changing needs of the automotive industry.

Besides auto, which other industries present new opportunities for Klüber in India?

Klüber Lubrication in India has established itself as a trusted partner not only in the automotive sector but also across a wide range of industries facing challenges related to wear and friction. Our expertise extends to critical sectors such as bearing manufacturing, cement, steel, power, food, pharmaceuticals, textile machinery, and wind energy, where customers rely on us for high-performance lubrication solutions. With a commitment to innovation and efficiency, Klüber continues to support industries in optimising performance, enhancing durability, and reducing maintenance costs through advanced lubrication technology.

SME



IMTEX 2025 Bolsters Global Collaboration

With 1,100 exhibitors and a record 133,166 business visitors from 70 countries, IMTEX 2025 demonstrated the strength of the Indian machine tool industry to meet the emerging demands of various industry sectors, reports **Rakesh Rao**.



H D Kumaraswamy, Union Minister of Heavy Industries, GoI, at the inaugural function of IMTEX 2025

IMTEX 2025, held from January 23-29, 2025 at Bangalore International Exhibition Centre (BIEC), reinforced its status as the leading global machine tool and manufacturing technology exhibition with orders worth Rs 35 billion being booked during the event. The expo also provided an ideal platform for collaboration and growth in manufacturing industry. With 1,100 exhibitors and a record 133,166 business visitors from 70 countries, IMTEX 2025 - organised by Indian Machine Tool Manufacturers' Association (IMTMA) along with concurrent shows of Tooltech 2025 and Digital Manufacturing 2025 - demonstrated the strength of the Indian machine tool industry to meet the emerging demands of various industry sectors. "Indian companies were at the forefront of showcasing products designed and developed in India to meet domestic demands. Indian OEMs had a significant presence with a large number of machines to suit a wide range of applications. Companies were upbeat on their prospects of expanding their market presence in India and overseas and this is a great moment for Indian manufacturing," stated **Rajendra S Rajamane, President, IMTMA**.

Jibak Dasgupta, Director General & CEO, IMTMA, added, "IMTEX 2025 had a lot to offer for both exhibitors and visitors. The technological advancements showcased attracted trade delegations and international buyers,

resulting in good business orders and enquiries."

The exhibition venue was a lively platform for business generation, with numerous deals and partnerships being forged. *Smart Manufacturing & Enterprises (SME)* spoke to participants to know their latest offerings, technological trends and their future plans.

Brother displays Made-in-India machines



Eric T Namikata, MD, Brother Machinery India Pvt Ltd

Brother Machinery India Pvt Ltd, a part of the Japan-based Brother Group, displayed its make-in-India machines at IMTEX 2025.

The group, which has invested about Yen 2

billion to set up a machine tool production plant near Bengaluru, started the production unit last year. "Brother Machinery India was established in 2022 with the purpose to set up a repair facility and supply spare parts to its customers. But, after establishing the company, we understood the need for the quick delivery of machines, and hence, within one year time, we took a decision to establish the factory in India and have production, sales, and after sales service under one roof within the country. We started manufacturing in 2024," said **Eric T Namikata, Managing Director, Brother Machinery India Pvt Ltd**, who returned to India in April 2024 after a break of five years. During his earlier stint, he worked in the country from 2011 to 2019.

At IMTEX 2025, Brother Machinery showcased its India-made SPEEDIO S7000Bd1 that drives greater productivity in the rapidly expanding Indian manufacturing market. "We manufacture India-made

SPEEDIO S700Bd1 in India. This is similar to what we make in Japan. In fact, it is one of the global bestselling models. The “B” in the name stands for “Bharat”. Through this machine, we want to showcase our commitment for local production. From December 2024, we have started the dispatch on made-in-India machines,” he added.

At the moment, the company is targeting India market with primary focus on the automotive industry - four wheelers, trailers, three wheelers, etc, but has big expectations and plans for India. “In addition to automotive, we have high expectations from the non-automotive industries like aerospace, general engineering, agriculture, and medical among others, and are exploring opportunities in these industries. Our target is to reach out to more customers – not just tier 1 & 2 customers, but also small & medium enterprises (SMEs),” disclosed Namikata.

UNITED GRINDING presents advanced grinding solutions



L-R: Achim Schurius (CSO, Walter Maschinenbau) and Ronny Muller (Head of Sales, Blohm Jung)

UNITED GRINDING Group, a global leader in precision grinding, eroding, laser, and measuring machines, continues to expand its footprint in India. The

group, which houses renowned brands like MÄGERLE, BLOHM, JUNG, STUDER, SCHAUDT, MIKROSA, WALTER, EWAG, and IRPD, is recognised for its state-of-the-art machine tools that cater to various industries, including aerospace, automotive, and electronics. Among its subsidiaries, Blohm Jung GmbH and Walter Maschinenbau GmbH play a crucial role in driving innovation and delivering high-precision solutions tailored to market needs.

During IMTEX 2025, **Achim Schurius, Chief Sales Officer, Walter Maschinenbau GmbH**, highlighted the company’s product offerings and their relevance to the Indian market. “We are showcasing the Helitronic Power 400, one of our most advanced models, featuring automation with a wheel changer and a top loader. However, the best-selling machine in India is a more price-sensitive version based on this model, which aligns well with the market’s demands. Our machines offer a unique gantry design, ensuring high stability and long

operational life, making them a valuable investment.”

Ronny Müller, Head of Sales at Blohm Jung GmbH, emphasised the versatility of their grinding machines. “We provide three-axis and five-axis machines catering to various applications, including aerospace, gas turbine industries, thread rolling, and precision tooling. Our five-axis machines are particularly suited for grinding multiple sides of a part, ensuring unmatched accuracy. The demand for high-precision components continues to grow, and our machines are designed to meet these requirements.”

Looking ahead, UNITED GRINDING Group remains optimistic about its expansion in India. Schurius noted, “India is a key market with diverse industries requiring high-precision tools. While our machines are positioned at a premium price point, their superior accuracy and longevity make them ideal for Indian tool manufacturers and resharpening companies. The automotive sector remains a major driver of demand, alongside the growing electronics industry, driven by mobile phone manufacturing and 3D applications. Additionally, aerospace continues to be a significant market, with an increasing need for high-quality precision tools.”

Boehlerit offers specialised solutions for railways

The Austria-headquartered Boehlerit - the carbide and tool specialist - displayed its extensive product portfolio includes highly specialised tools for machining of crankshafts, bar peeling, tube and sheet metal processing and heavy-duty machining at IMTEX 2025. “Our core product is carbide. We are very happy to work in India with our sister company, Bilz (which is now 30 years in India). Bilz has a lot of



Gerhard Melcher, Head of Sales, Cutting Tools and Marketing, Boehlerit

experience and India is at the moment the most dynamic market in the world in cutting tools, growing every year around 10 per cent. So, we are here in the country to invest for long term. Because of our sister company, Bilz, we have a very nice sales organisation and a very good network here. IMTEX 2025 is incredible exhibition as you would see a wide range of innovations, international people and lot of opportunities to meet potential customers. This probably makes us happy,” said **Gerhard Melcher, Head of Sales, Cutting Tools and Marketing,**

Boehlerit GmbH & Co KG, Austria.

In general milling, Boehlerit has new products for bar peeling and offers an incredible engineering service for railway machining. “Railway in India is a very growing market because the government is investing a lot in infrastructure. For railways, we offer special cutter because the profile is very different. To produce new railways, you need also for a restore tracks as India has the longest railway line in the world. In the past, a lot of companies were grinding this. Now, we have come up with a milling solution,” he informed.

Boehlerit is the market leader in bar peeling for steel production, specially focusing on difficult materials such as stainless steel, duplex, inconel, hastelloy and titanium. The demand for these materials is growing very fast as they are used in the industries such as defense, aircraft, energy, etc. Speaking about the company’s future plans in India, Gerhard Melcher said, “In India, we are investing in engineers, technical & application people, as well as increasing our dealer network. As Bilz has a production facility in Bangalore, we have a big advantage with India showing robust demand growth.”

Dormer Pramet displays commitment to India

Dormer Pramet, a global leader in cutting tool solutions, highlighted its focus on India and Asia at IMTEX. **Oliver Sax, VP Global Sales & Marketing, Dormer Pramet**, emphasised the company’s commitment to serving the Indian market through its 2020 acquisition of Miranda Tools. This move not only strengthened Dormer Pramet’s local footprint but also enabled the company to integrate global technologies with regional expertise, ensuring solutions tailored to India’s evolving manufacturing landscape.

Sharad Kulkarni, Director Sales Area - Asia, Dormer Pramet India Pvt Ltd, reiterated the strategic importance of India within the company’s broader Asian expansion. “India’s manufacturing sector is undergoing a transformation driven by the ‘Make in India’ initiative. Our investment in Miranda reflects our belief in India’s growth potential across automotive, aerospace, defence, and railways,” he noted. Kulkarni also highlighted Dormer Pramet’s extensive distribution infrastructure across Asia, ensuring



L-R: Mayur Jadhao (Head of Marketing - Asia Pacific, Dormer Pramet India), Amaya Albisu (VP - Communication, Brand & Marketing, Dormer Pramet), Oliver Sax and Sharad Kulkarni

accessibility of high-speed steel (HSS), solid carbide, and indexable tools to manufacturers of all sizes. He further elaborated on the company’s efforts to build a strong technical team in India, providing end-users with guidance to maximize productivity and cost savings.

A key theme at IMTEX was the growing need for advanced machining solutions to enhance productivity and efficiency. Sax pointed out that Dormer Pramet’s latest high-feed indexable milling tools and new cutting geometries offer up to 300 per cent productivity improvements, helping Indian manufacturers optimise processes and reduce costs. “India has made significant investments in advanced machinery, and our solutions help maximise these investments by boosting machining performance,” he said. He also noted the increasing role of solid carbide tools in high-speed machining, as machine speeds increase and sizes become more compact.

Dormer Pramet’s participation at IMTEX underscored its long-term commitment to expand its manufacturing footprint and continue driving technological advancements in the Indian market.

HARDY showcases solutions for SPMs

The Taiwan-based Hann Kuen Machinery & Hardware Co. Ltd (Hardy) specialises in manufacturing spindles and slides for Special Purpose Machines (SPMs). The



Jack Liao, Sales & Marketing, Sales Manager, HARDY

company caters to high-precision machine transfer solutions and high-production machines. Currently, Hardy manufactures over 100–150 types of spindles and more than 100,000 types of slides.

“Our technology portfolio is diverse. In slide systems, we offer solutions using linear guides as well as box ways, and we continue to employ traditional scraping techniques. For spindles, we provide high-speed as well as low-speed but high-rigidity spindles. We also have expertise in preloading high-speed bearings and applying heavy preloading techniques for angular contact bearings,” commented **Jack Liao, Sales & Marketing, Sales Manager, HARDY**.

He added, “Currently, we are working on linear motors, ensuring that we stay ahead of industry advancements. While we continue to produce traditional spindles, hydraulic, and pneumatic solutions—known for

their stability and long lifespan—we are also developing new technologies every year to stay at the forefront of innovation.”

India is globally recognised for SPMs, and Indian customers are well-versed in advanced manufacturing technologies. Unlike some other countries that prefer complete turnkey solutions, Indian manufacturers often prefer to build and customise their own machines for maximum efficiency. Jack Liao said, “We deeply appreciate this approach because it aligns with HARDY’s philosophy. Our company focuses on supplying high-quality components that allow manufacturers to assemble their machines with ease while maintaining flexibility and efficiency. At IMTEX 2025, we are showcasing our wide range of spindles and slides, emphasising how our solutions can enhance machine performance and manufacturing productivity.”

Sandvik Coromant aims to empower youth through training

At IMTEX 2025, Sandvik Coromant India exhibited



Sunil Joshi, President, Sandvik Coromant India Pvt Ltd

its “Manufacturing Wellness” concept, emphasising sustainability, digitalisation, and automation. The initiative focuses on a holistic approach to manufacturing, integrating people, technology, and knowledge to enhance efficiency and resilience. By expanding its role beyond cutting tools to include component design, process planning, and operations, the

company aims to optimise the entire manufacturing value chain. With a strong commitment to R&D, Sandvik Coromant launches around 2,500 new products annually, further driving innovation in the industry. A major new product is set for launch in March, poised to revolutionise the hole-making segment.

Speaking about the company’s corporate social responsibility (CSR) efforts, **Sunil Joshi, President, Sandvik Coromant India**, highlighted their ITI Pune program. “As part of our CSR initiative, we run a training program in Pune, where approximately 300 students graduate annually. The program is conducted in collaboration with the Government of Maharashtra, ensuring industry-relevant skill development. In addition to this, we offer advanced training courses on metal

cutting and machining, reaching nearly 1,000 professionals each year. Through these initiatives, we aim to bridge the skill gap in the manufacturing sector and encourage recruitment from our training programs,” he stated.

Looking ahead, Sandvik Coromant is focused on strengthening its presence in India. The Pune facility, already the company’s second-largest insert manufacturing plant, will play a crucial role in expansion plans. The company is investing significantly in people, technology, and knowledge to support its growth strategy, anticipating high double-digit growth in India over the next three to five years. While the automotive sector remains dominant, aerospace is emerging as a key growth area, offering exciting opportunities alongside general engineering. The company’s long-term vision aligns with India’s industrial growth, reinforcing its commitment to innovation and sustainability.

AMF displays innovative workholding solutions

Andreas Mayer Workforce Technology Pvt Ltd, a subsidiary of the 135-year-old German company Andreas Maier GmbH & Co KG (AMF), showcased its extensive range of workholding solutions at IMTEX 2025.

Specialising in clamping technology for milling machines, the company offers over 7,000 products, including traditional mechanical clamps, clamping cylinders, magnetic and vacuum clamping plates, toggle clamps, and its latest zero-point clamping systems.

With a strong global presence across Europe and the US, AMF has been operating in India for 35 years, officially establishing its subsidiary in 2009. The company primarily caters to industries such as automotive, machine tools, textiles, and pharmaceuticals. Its focus is on enhancing machine productivity and reducing downtime, helping manufacturers maximise efficiency even with limited availability of skilled labour.

“Our key highlight at IMTEX 2025 is the zero-point clamping system, an innovative solution that is gaining significant traction among customers. Originally



Vishwanath Ammanagi, Director - Sales & Marketing, Andreas Maier Workholding Technology Pvt Ltd

developed 30 years ago, this system is now increasingly sought after as manufacturers invest in high-end machines and seek to optimise their operational efficiency. By minimising setup time and dependency on skilled operators, zero-point clamping ensures continuous production, maximising machine profitability,” stated **Vishwanath Ammanagi, Director - Sales & Marketing, Andreas Maier Workholding Technology Pvt Ltd.**

CAD MACRO launches smart tools for manufacturing efficiency

CAD MACRO Design & Solutions - a company



Manickam, MD, CAD MACRO Design & Solutions

specialising in CAD/CAM development, ERP, MES, and CNC simulators - introduced two innovative products at IMTEX 2025. One of these is Macro Planner, designed to automatically generate cost estimates, process timings, and process planning from 3D models. The second product is an advanced CNC simulator aimed at bridging the gap in technical education by

providing institutions with a PC-based virtual environment to train students without the need for real machines, raw materials, or cutting tools.

Commenting on the launch, **Manickam, Managing Director, CAD MACRO Design & Solutions**, said, “The response to our new products has been overwhelming. Many machine shops are particularly interested in Macro Planner, as it helps them streamline tasks like generating reports and planning activities more efficiently. This tool can reduce the daily workload for shop floor personnel by providing precise, real-time insights into production activities.”

Looking ahead, the company is working towards creating a comprehensive digital machine shop, integrating MES, IoT, and real-time data visualisation into a single dashboard. This initiative aligns with Industry 4.0 principles, offering a more streamlined, data-driven approach to manufacturing and technical education for future engineers.

Customised solutions to drive CNC India's growth

CNC India Tools & Services, a leading player in the manufacturing industry, has been delivering customised turnkey solutions across multiple verticals for over 30



Raghavendra H N, Defence & Aerospace - Division Manager, CNC India

years. The company operates through distinct divisions: Robotics and metal handling, defence and aerospace, Special Purpose Machines (SPMs) and automation, Machine Reconditioning and Retrofitting (MRO), and fixtures. With

tailor-made equipment designed to meet specific client requirements, CNC India has successfully executed diverse projects, including robotic gantry applications, automated welding stations, battery assembly lines, and end-of-line testing systems. The company operates manufacturing plants at Dobbaspeta and Peenya in Bengaluru.

“We provide jigs and fixtures for defence applications, including missile assembly jigs for large missiles with diameters of up to 2.4 meters. Our jigs facilitate easy assembly with six degrees of freedom, supporting major defence organisations like DRDL Hyderabad, ASL Hyderabad, and Pune Ordnance Factory,” said **Raghavendra H N, Defence & Aerospace - Division Manager, CNC India Tools & Services.**

The company actively participated in IMTEX, showcasing its SPM division and robotic expertise through demonstrations of cement applications, laser marking, servo pressing, and vision tracking. “With an annual turnover of approximately Rs 1 billion and plans to grow its robotics division from Rs 200 million to Rs 300 million this year, CNC India is optimistic about sustained growth and potential expansion into European markets in the near future,” stated Raghavendra.

FAR to boost productivity with cutting-edge solutions

Fenwick And Ravi (FAR), a prominent player in the manufacturing space for over three decades, specialises in niche equipment designed to enhance productivity through innovative solutions. The company focuses on delivering products that address specific customer needs, ensuring high accuracy and efficiency in various industrial applications. According to **Ravi Radhakrishnan, Partner, FAR**, the manufacturing landscape in India has undergone a significant transformation in the past five years. “The industry has shifted its focus from simply acquiring machines to prioritising productivity, accuracy, and process efficiency,” he said. Radhakrishnan emphasised that multitasking machines, which were once exclusive to European and Japanese markets, are now gaining

traction in India, reflecting a growing demand for sophisticated and efficient solutions.

The company has expanded its product range to cater to evolving market needs. One of its core offerings, Steady Rest, now includes larger variants capable of handling weights up to 50 tonne, with strong demand from both domestic and international markets. “Additionally, FAR has introduced Store Max, a storage solution that increases storage space by three times compared to traditional methods, enhances inventory tracking to nearly 99 per cent accuracy, and reduces manpower requirements significantly. Looking ahead, FAR anticipates consistent growth, targeting a 25 per cent annual increase over the next few years, aligned with India’s broader industrial growth trajectory,” added Radhakrishnan.



Ravi Radhakrishnan, Partner, Fenwick And Ravi

Festo marks centennial with new innovations

Festo, a global leader in automation technology and industrial training, is committed to maximising productivity and competitiveness for its customers. The company has been a pioneer in factory and industrial automation, celebrating a legacy of excellence since its establishment in 1925. At IMTEX 25, Festo India is showcasing its latest products in electrical automation, pneumatic automation, life-tech products, and industrial skilling solutions. **Ramesh Ramachandar, Head of Sales - AEM, Festo India**, highlighted that visitors can expect an exciting and informative experience from their service. He emphasised the presence of skilled engineers who will assist in providing automation solutions tailored to customers’ needs. The company also introduced innovative products that were showcased for the first time in India.



Ramesh Ramachandar, Head of Sales - AEM, Festo India Pvt Ltd

Looking ahead, Festo has planned a series of events across India to mark its 100th anniversary, with some held already in Pune and Mumbai. As part of its centennial celebrations, the company aims to continue

driving industry advancements and shaping the future of automation for the next 100 years, strengthening its position in the global market.

Miven Mayfran introduces next-gen conveyor system

Miven Mayfran Conveyors, based in Hubli, Karnataka, is a leading manufacturer of chip conveyance and coolant filtration systems for OEMs, including major clients like ASAMS, BFW, LMW, and Lokesh Machines. The company holds a 60% market share in India and exports its products to European and Gulf countries.



Anand Dixit, Manager Sales - Machine Tool Products, Miven Mayfran Conveyors

Anand Dixit, Manager of Sales - Machine Tool Products at Miven Mayfran Conveyors, shared insights about the company’s latest innovation, the ConSep 2000 conveyor system. This unique system features a 90-degree discharge design, aimed at reducing layout length. It offers two types of filtration systems: a consumable type and a non-consumable type, providing flexibility based on customer needs. The ConSep 2000 combines a chip conveyor, crusher, and oil recovery system, making it ideal for chip handling in industries with high-volume metal waste. The oil recovery system can recover up to 90 per cent of oil from the chips.

The company plans to expand its operations beyond India, with a focus on waste management and sewage treatment systems for municipal corporations. Exports currently account for 15-20 per cent of their turnover, but Miven Mayfran aims to increase this to 35-40 per cent in the near future.

Magnets India plans pan-India expansion

The Chennai-based Magnets India - a distributor for a German company Magnet-Schultz GmbH & Co. KG - is eyeing growth in the machine tools sector. “Magnet-Schultz works in the field of sensors, actuators, vibrators and related products connected to manufacturing and components for the machine tool industry. These products also find applications in industries such as food, pharmaceuticals and medical equipment,” said **R Vasudevan, Proprietor, Magnets India**.

Magnet-Schultz is specialists in electromagnetic actuators, sensors and valve technology. The company

develops high-tech solutions for its customers from aerospace, automotive, electromechanics, hydraulics, medical technology, pneumatics and many other sectors.

With distribution primarily concentrated in areas of Bangalore and Pune, Magnets India is planning for pan-India expansion to grow the business. “Key industries for our business are automobile, food, pharmaceutical and medical equipment. We plan to expand our clientele base all across India by expanding our distribution network to other parts of the country beyond our existing presence in South and West regions,” Vasudevan commented.



R Vasudevan, Proprietor, Magnets India

Vollmer unveils innovative deburring technology

Vollmer Technologies India, established in 2012, is a prominent manufacturer and supplier of sharpening machines for Band, TCT, and HSS saws. The company also offers consulting services for sawmills, sharpening shops, and tool manufacturers. Their innovation extends to the introduction of ultrasonic deburring technology, designed primarily for deburring cutting tools, particularly



Ravindra S D, MD, VOLLMER Technologies India

HSS taps and tools. This ultrasonic method, already popular in the dental and medical industries, has been scaled up for applications in the automotive sector, such as crankshaft oil deburring.

Ravindra S D, Managing Director, Vollmer Technologies India, highlighted the company’s latest exhibit at IMTEX 2025, where they showcased their ultrasonic deburring machine alongside a five-axis CNC tool and cutter grinder for solid carbide tool production and servicing. “While the European and American markets are seeing some slowdown, the Indian market remains self-driven, largely fuelled by domestic consumption,” he said.

Looking ahead, Vollmer Technologies plans to continue as a technology leader, introducing new

innovations such as their laser machine for diamond cutting tool production, which will be featured at the next IMTEX edition. The company is optimistic about the future of the Indian market, despite global uncertainties.

KTA Spindle exhibits advanced hydraulic toolholders

KTA Spindle made a strong impact at IMTEX 2025 by displaying its complete

range of hydraulic products and shrink-fit holders, catering to applications from small GP to 400mm GP.

The

company, which has a unit in Germany (HPCHO GmbH), has introduced various new designs, including slim, 3-degree strong, and 4.5-degree holders. “A major highlight of the exhibition is the debut of the face mill hydraulic holder, a first-of-its-kind product in India. This year also our their 25th anniversary,” stated **Vijay Z Chopda, Director, KTA Spindle Toolings**.

As part of its expansion, the company will soon launch polygonal tool holders, branded under the ‘Capital Tool Holders’ series. Known for their complexity, these tool holders will add to KTA Spindle’s extensive portfolio of over 6,000 varieties. The company operates with a workforce of 400 employees and 200 CNC machines, ensuring large-scale production capabilities. Currently, exports contribute over 50 per cent of total revenue, sometimes exceeding 55 per cent, with a strong domestic presence supported by 120 distributors and partnerships with various OEMs.

Looking ahead, KTA Spindle is focused on launching the polygonal tool holder series, which is expected to drive further business growth. Additionally, the company expects business growth of 30-40 per cent in the coming year.

Pathak Industries unveils cobot and expansion plans

The Kolkata based TL Pathak Group highlighted its expansion and focus on automation at IMTEX 2025. With a legacy dating back to 1960, the company has extended its reach beyond its hold in the eastern region by establishing a new showroom and assembly facility in Bangalore, strengthening its pan-India presence.



L-R: Vijay Chopda, Nidhi Chopda (Marketing Head) and Vipul Chopda (Director) of KTA Spindle Toolings

A key highlight of the exhibition was the launch of the company's industrial cobot, a six-axis collaborative robot developed in partnership with an Italian company and manufactured in Taiwan. "The versatile platform can be integrated into various automation applications, including welding, pick-and-place operations, cutting, drilling, tapping, and tightening, addressing the rising demand for automation solutions in Indian manufacturing," opined **Hitesh Pathak, COO, Pathak Industries Kol (TL Pathak Group)**.



Hitesh Pathak, COO, Pathak Industries Kol

In addition to cobot, Pathak Industries showcased hydraulic machines, special-purpose machines (SPMs), and laser welding solutions, reinforcing its commitment to providing customised automation solutions that are often unavailable elsewhere in India.

The industry is undergoing a transformation, with manufacturing moving from conventional machines to CNC machines and now toward robotics-driven automation. He elaborated, "To capitalise on this shift, the company plans to open another showroom and assembly facility in Coimbatore within the next year, followed by expansion into Maharashtra to establish a nationwide presence."

Bright Burnishing Tools targets global markets

Bright Burnishing Tools, a leading provider of specialised burnishing tools, is recognised for offering a wide range of standard tools along with extensive expertise in application engineering and custom tool design. The company's product offerings include advanced roller burnishing tools, indexable models in both diamond and single roller categories, and new developments in flat surface burnishing for thread rolling applications, marking a significant



N Srinivasan, MD, Bright Burnishing Tools

innovation in the industry.

N Srinivasan, Managing Director, Bright

Burnishing Tools, shared, "We are displaying our complete range of roller burnishings at IMTEX 2025. We have developed several new ranges in our burnishing tools, including indexable models in the diamond and single roller categories. We have also introduced advancements in flat surface burnishing and are now offering new products for thread rolling applications, which can be performed on CNC machines."

Looking ahead, Bright Burnishing Tools is aiming for geographical expansion to tap into international markets. Currently, the company supplies across India with a strong regional representation. In the future, it plans to target key manufacturing hubs in regions like the US, Europe, and East Asia, including Taiwan and Korea, as part of its export strategy.

Pneumec Kontrolls expands into semiconductor and steel sectors

The Bangalore-based Pneumec Kontrolls, a key distributor of

Japanese industrial products in India, has introduced Fujitec's automatic screw feeding machines at IMTEX, marking the brand's debut in the Indian market. The

company, which represents multiple

Japanese brands, including Nitto Kohki, Wesel Toni, and Togawa Mini, specialises in importing and distributing advanced tools, couplers, and precision equipment across various industrial segments.

With an already strong presence in the automotive sector, Pneumec Kontrolls is now expanding into the steel structural industry and India's growing semiconductor market. "The company is in discussions with Japanese firms to bring semiconductor-related products to India by next year. Additionally, we are strengthening our portfolio for the steel industry, particularly in bolting machines used in steel bridges, metro stations, and railway projects," elaborated **B K Nagendra, Director, Pneumec Kontrolls**.

Committed to its long-standing association with Japanese engineering and work culture, Pneumec Kontrolls continues to focus exclusively on Japan for its product partnerships. "Looking ahead, we expect to achieve 30-40 per cent growth in the next one to two years, driven by its expansion into new industrial segments and increasing demand for high-precision automation solutions," stated **Nagendra**.



B K Nagendra, Director, Pneumec Kontrolls

Prominent targets exports for growth

Prominent Machine Tool and Prominent Autotech,



Gunasekaran GR (right), CEO & Founder, Prominent Autotech

operating as two specialised verticals, showcased their latest innovations at IMTEX 2025. The machine tool division focused on VDI and BMT tool holders, offering both standard and customised solutions, while Prominent Autotech specialises in tool discs, including VDA, and BMT tool discs, along with tailor-made products. “A key highlight at the

exhibition was the launch of high-demand tool discs, including BTP 63, BTP 80, and BTP 100. The exhibition response has been overwhelmingly positive, with attendees appreciating the company’s innovative engineering and product quality,” stated **Gunasekaran GR, CEO & Founder, Prominent Autotech.**

Encouraged by the strong market reception, Prominent Machine Tool & Auto Tech is set for significant expansion. The company aims to increase its workforce from 45 to 100 employees within the next six months. “In terms of international growth, the company, which already serves European clients, is now targeting new markets in the US, Russia, and Poland. Discussions with major OEMs are underway, and large-scale exports are expected to commence in the coming months,” commented Gunasekaran.

Quaker Chemical highlights EV solutions

Quaker Chemical India Pvt Ltd (A Quaker Houghton Company), who has been participating in IMTEX for



Sachin Mahajan, Marketing Manager - India, Quaker Chemical India Pvt Ltd

several years, showcased its new offerings for electric vehicles (EV) this year at the expo in addition to displaying its expertise in die casting, forging, machining fluids, and rust-preventive industrial cleaners. “With a well-established presence in Europe and the US, we supply EV-specific solutions for battery machining

and case machining to major OEMs. We also aim to extend this expertise to Indian EV manufacturers, aligning with the expanding EV market, said **Sachin Mahajan, Marketing Manager - India, Quaker Chemical India Pvt Ltd** (A Quaker Houghton Company).

Over the years, Quaker Houghton has strengthened its capabilities through strategic acquisitions. The company’s Grindaix, a German manufacturer of specialised nozzles, optimises coolant consumption and reduce burn mark issues in grinding applications. Additionally, ECLI Greases acquisition has expanded Quaker Houghton’s offerings to include high-temperature specialty greases used in aerospace, semiconductor, and robotics industries. Another key addition is Ultraseal, which provides chemical solutions for porosity control in manufacturing.

At IMTEX 2025, Quaker Chemical highlighted its automation-driven fluid intelligence solutions. These include real-time monitoring systems that track coolant concentration and pH levels, enabling manufacturers to optimise efficiency and reduce waste. The company also showcased awards from major clients like Tata Motors.

Looking ahead, Quaker Chemical is optimistic about India’s manufacturing growth. “The company closed 2024 with over 10 per cent growth in volume and turnover and expects further expansion in 2025, driven by increasing demand in the manufacturing sector,” added Sachin Mahajan.

Secon Technologies unveils new partnerships

Secon Technologies Solutions - a 25-year-old



Ravi Huddar, Proprietor, Secon Technologies

company specialising in CNC machine tool accessories, represents leading Taiwanese brands such as Kenturn (a manufacturer of various spindle types), and EXACT Machinery Company Limited (known for CNC servo tables, index tables, and automatic indexing solutions). Additionally,

Secon distributes magnetic deburring machines for aerospace applications and various CNC accessories such as collets and grippers.

At IMTEX, Secon showcased its core products, including CNC rotary tables, hydraulic index tables, and high-speed motorised spindles for turning and machining centres, with spindle speeds reaching up to 30,000 RPM. “The growing demand for CNC machine

accessories in India, driven by the Make in India initiative and the increasing number of domestic OEMs manufacturing VMC and SPM machines, has contributed to Secon's consistent growth," said **Ravi Huddar, Proprietor, Secon Technologies Solutions Inc** (authorise representatives for Exact, Kenturn, Bright, Holding, Hardy, etc in India).

Looking ahead, the company aims for a 20-30 per cent growth in the next financial year and is expanding its product line-up by introducing sensor technology for CNC machines. "Secon has partnered with T-Sense, a company specialising in tool-length measurement sensors that provide real-time feedback on tool wear and breakage, enhancing machining accuracy and efficiency. This marks the first-time display of T-Sense technology in India at IMTEX," stated Huddar.

SMT displays first made-in-India PVD coating machine



Dr Umesh Mhatre, MD, Surface Modification Technologies

Surface Modification Technologies Pvt Ltd (SMT) is redefining surface engineering solutions with a strong focus on PVD coatings, catering to both decorative and functional applications. The company is India's largest PVD coating supplier for Titan watches and has dedicated operations in Mumbai for the pharmaceutical sector and Pune for the automotive industry. Expanding its

global presence, SMT recently launched SMT Beschichtung GmbH in Germany, where it is introducing India's first locally designed and developed PVD coating machine, SMT Ion-X.

At IMTEX, SMT emphasised its role in bringing India to the forefront of global PVD coating technology. "We are the only Indian firm with complete expertise in PVD machine design and manufacturing, competing with established players from Germany, the US, Switzerland, Japan, and China. While this PVD coating machine is already operational in our coating centres, its commercial launch is expected by 2026," remarked **Dr Umesh Mhatre, MD, Surface Modification Technologies Pvt Ltd**.

Looking ahead, SMT is focused on strengthening India's position as a global technology leader. Dr Mhatre stated, "The company aims to transform India from being just a consumer market into a competitive global exporter, following the model of countries like China. SMT's long-term vision is to build a world-class Indian

brand that retains domestic wealth while expanding its presence across international markets."

SWIT showcases PFERD's advanced robotic tooling solutions

SWIT (Solution With Innovative Technologies) - a single stop supplier of high quality tools, tool drives and solution provider for industrial manufacturing - introduced new robotic application tools of PFERD at IMTEX, marking their first display in India. PFERD is known for high quality tools and tool drives for cutting, grinding, milling, filing, de-burring, rust removal, cleaning, brushing, matt finishing and polishing. SWIT launched PFERD's special cutters and compliance tools designed for robotic systems, which enhance flexibility and simplify programming for industrial automation.

"As India sees a rising adoption of robotics and CNC applications, SWIT anticipates growing demand for advanced tooling solutions. However, the market is still in its early stages, with awareness about specialised end tooling and robotic spindles yet to catch up. The company aims to bridge this gap by educating industries on the benefits of optimised robotic tooling", commented **Mathew Jacob, Chief Technical Officer, SWIT** (PFERD's exclusive Indian partner).



Mathew Jacob, Chief Technical Officer, SWIT

Trishul displays ball generating machine with IoT integration

Trishul Machine Tools Pvt Ltd launched its new ball generating machine at IMTEX, marking its first public showcase. The machine, designed specifically for valve manufacturers, has received a strong response, with



C S Abhijith, Manager Service, Trishul Machine Tools Pvt Ltd

multiple inquiries already in place. "We are also focusing on integrating IoT technology into the machines, enhancing operational efficiency and real-time monitoring. The IoT system enables users to track production shift-wise, monitor machine uptime and

downtime, and record reasons for machine idling. This feature ensures better productivity tracking, allowing businesses to optimise their operations effectively”, remarked **C S Abhijith, Manager Service, Trishul Machine Tools Pvt Ltd.**

Trishul Machine Tools aims to scale up production from 90 machines this year to 150–200 machines annually by next year, with exports contributing 20–30 per cent of sales. The company is also actively working on new innovations, with plans to introduce additional advanced products at the next IMTEX exhibition.

Fledon Group showcases novel material handling solutions

The Mumbai-based Fledon Group displayed its comprehensive range of material handling solutions under the brand ‘MH & More’ (Material Handling & More) at IMTEX 2025. “The company specialises in



L-R: Glen Gonsalves (Director) and Knowlton D’cruz of Fledon Group

vertical storage systems designed to optimise shop floor space, enhance safety, and boost productivity for manufacturing industries. By implementing these solutions, businesses can improve workflow efficiency, create an organised workspace, and enhance their professional image,”

explained **Knowlton D’cruz, Executive Director - Sales & Marketing, Fledon Group** (Material Handling & More).

At the exhibition, Fledon Group focused on solutions for industries such as sheet metal processing, auto component manufacturing, bars, tubes, and pipes. The company offers various products, including tool drawer trolleys, industrial workbenches, all-terrain lifter racks with a 1.5-ton capacity, and mold and tool storage solutions. Additionally, it provides high-end automated storage and retrieval systems (ASRS), which can handle 45 to 75 tons on a single tower and up to 150 tons on a twin-door system.

Fledon Group sees a strong market trend with increasing demand for material handling solutions, driven by the growing focus on organised workspaces and capital investment in automation. “As part of our growth strategy, we are set to open a new manufacturing plant, 30 km north of Mumbai, by October 2025. Spanning 110,000 sq ft, this facility will support not only material handling solutions but also contract manufacturing, including auto and digital component

production, with a focus on exports,” stated D’cruz.

Lubi Electronics presents Hiwin’s cutting edge technologies

The Ahmedabad-based Lubi Electronics, an industrial solution provider, has partnered with Taiwan’s Hiwin Corp to supply their advanced and innovative automation solution in India. Hiwin offers motion

control solutions to machine makers. “Lubi Electronics has been associated with HIWIN for the past six years. HIWIN specialises in linear motion products across India, catering to industries such as machine tools, printing, packaging, food and pharmaceuticals, textiles, and automotive. HIWIN is already a well-established and trusted brand in the market, and most of Lubi’s



L-R: N. Venkatramani, Product Manager, Lubi Electronics, and N Raju, MD, IBK Engineers

customers are familiar with its quality and reliability. IMTEX 2025 is a significant platform for us, as the machine tools sector holds immense potential. We anticipate a 15–20 per cent growth in business from this exhibition and are confident about exciting business opportunities in the future,” stated **N Venkatramani, Product Manager, Lubi Electronics.**

This year in India, Hiwin is introducing linear motion applications for the automotive and semiconductor industries. “One of our key innovations is a new solution that eliminates the need for traditional ball screw applications—allowing for direct electronic operation using linear motion technology. This advancement enhances efficiency and precision, making it a breakthrough for high-tech manufacturing applications. We are optimistic about receiving strong interest and new project inquiries based on this innovation,” he said.

Besides Hiwin, Lubi Electronics collaborates with many global players for providing solutions in the field of automation, solar panels, industrial control panels, relays, switching mode power supplies (SMPS), etc. Venkatramani elaborated, “We have multiple partners across different sectors in India, including IBK Engineers in Bangalore. Additionally, Lubi Electronics represents 27 brands, including Omron, Panasonic, Delta, Cognex, Moxa, Sanyo Denki, Weidmuller, Cognex, Inovance, Baumer, Mirle, etc.”

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(With inputs from Divya Shetty and Sanskriti Ramachandran)



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“Wendt India is targeting high double-digit growth rate.”

Wendt India Ltd, a joint venture between 3M and Carborundum Universal (Murugappa Group), is a manufacturer of precision components, machining tools, and super abrasives. In this exclusive interview with Rakesh Rao, **Ninad Gadgil, Executive Director & CEO, Wendt India Ltd**, elaborates on the evolving machine tools market and the company’s future plans.

Please introduce Wendt India Ltd.

We are in the business of providing solutions for hard-to-grind materials, which includes super abrasives, machine tools, and a business unit that undertakes job work for high-precision components for our customers. Additionally, we manufacture vanes (for fuel pumps, hydraulic pumps, and off-road vehicles) and carbide inserts for some of our insert grinding customers.

What is Wendt India’s highlight at IMTEX?

Over the years, we have been regular participants at IMTEX. In the last couple of years, our machine tools portfolio has grown by almost 100 percent year-on-year (YoY). So, for us, IMTEX 2025 is an excellent platform to launch our newly acquired technology (through a license from 3M, the parent company of Wendt in Germany). We are introducing the QUATRO and CENTRO series of machines, which are essentially five-axis peripheral and cylindrical grinding machines for the carbide insert grinding industry. This is our key product showcase at the event.

Apart from that, we are also displaying products for other industries that we serve. A major highlight is our new high-speed vitrified CBN wheels for the crankshaft industry. We are the first India-headquartered company to develop these solutions, whereas most customers today rely on imports.

With the rise of EVs in both commercial and passenger vehicles, original equipment manufacturers (OEMs) are focusing on improving solutions for the entire transmission system. In the absence of an engine, OEMs are prioritising noise reduction from the transmission and bearing sides. Wendt has excellent solutions, such as our new range of vitrified CBN wheels, which offer significant benefits for crankshaft customers.

We are also launching Quantapol wheels—hybrid wheels made of metal and resin—for the round tool industry. Once again, we are the first company in India to develop and manufacture these wheels.

Another success in recent months, has been in the



L-R: Ninad Gadgil, Executive Director & CEO, and Raghunatha Naidu B P, GM - Machine Tools, of Wendt India Ltd

fettling industry. We have developed electroplated wheels designed for robotic applications. Many customers today are moving away from manual grinding in fettling operations, as their clients in Europe no longer accept it due to safety and productivity concerns. Instead, they are looking for automated solutions. Our electroplated wheels are ideal for automatic or robotic fettling operations. We are also introducing Made-in-India wheels for the semiconductor industry. Since we are a local supplier, customers will benefit from reduced lead times and cost advantages.

What is your growth plan?

We are targeting high double-digit growth rates for both our machine tools and super abrasives businesses. However, we are particularly bullish on the machine tools segment, thanks to our new technology acquisition from Wendt GmbH. Previously, we were already manufacturing machines for the tungsten carbide (TC) roll grinding industry. Large and medium-sized steel mills with TC roll shops have been using our machines. Now, with this acquisition, we will also be able to serve the insert grinding industry, significantly expanding our market reach.

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"India presents a huge opportunity for HIWIN."

The Taiwan-headquartered HIWIN Technologies Corp is known for providing intelligent products and mechatronic total solution to serve customers and build a great work environment to improve human's life. In this interview during IMTEX 2025 (India's leading machine tools exhibition), **Simon Liao, Deputy General Manager, 2nd Business Dept, HIWIN Technologies**, highlights on the latest offerings of HIWIN and market trends in India with customers demanding high-efficiency and green technology.

Kindly brief us about HIWIN's offerings in India?

HIWIN has been in India for the past 35 years and is a leading manufacturer of ball screws and LM guides, which form the core of linear motion (LM) technologies. However, beyond linear motion, we have expanded into rotary motion technologies as well. As a leading manufacturer of motion control and system technologies, we offer a diverse product range that includes: bearings, rotary tables, industrial robots, wafer robots, medical robots, linear motors, servo motors, and drives, and torque motors. Additionally, we cater to high-precision applications in the semiconductor industry, providing linear motors and torque motors through our sister company, Mikrosystem.

Today, in the machine tools industry, five-axis machining is becoming a major trend beyond traditional three-axis machining. Many complex components that were previously difficult or time-consuming to machine can now be processed efficiently with five-axis technology. This advancement reduces overall production time and optimizes factory floor space.

Traditionally, five-axis machining centers used worm gear-based rotary tables. However, at HIWIN, we only manufacture torque motor rotary tables, which utilise direct-drive technology. These tables eliminate the need for servo motors, ensuring non-contact operation and zero backlash. In contrast, worm gear-based mechanisms develop backlash over time, requiring machine shutdowns for adjustments, which affects productivity.

With HIWIN's direct-drive rotary tables, manufacturers experience continuous operation, no need for backlash adjustments, and a more compact design.



Simon Liao,
Deputy GM, 2nd Business Dept,
HIWIN Technologies

Many companies globally—including those in Japan, China, Europe, Brazil, and South America—are transitioning from mechanical systems to direct-drive solutions. This trend is particularly strong in aerospace, aircraft manufacturing, and electric vehicles (EVs).

Are you seeing this trend happening in India as well?

Yes, we expect this trend to gain momentum in India. However, India is still in the early stages of adoption. We want to enter the market early and establish a strong presence. Global machine tool manufacturers have already started shifting from worm gear mechanisms to direct-drive technology. With more global companies investing in India, we believe this transition will soon take place in the Indian market as well.

Do you see India's policy push as an opportunity for HIWIN?

Absolutely. For example, the Indian government is actively promoting semiconductor manufacturing, and we can, with the support of our sister company Mikrosystem, provide high-precision components and solutions tailored for semiconductor applications.

We have been in India for over 30 years, and we have witnessed significant growth in the market. Initially, progress was slow, but in the last five to six years, we have seen tremendous opportunities and expansion. India's manufacturing sector is poised for continued growth, and we believe it presents a huge opportunity for everyone in the machine tools industry. More global companies are investing in India, which will further drive demand for high-precision motion control solutions. 



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“Technology adoption should be purposeful.”

With its theme of “Close to you!”, ifm electronic gmbh (the Germany-based manufacturer of sensors and controls technology for various industries) showcased its latest innovations for the machine tool sector at IMTEX 2025. In this interaction with Rakesh Rao, **Fabian Habel, Director – Global Business Development, Product Sales & Launch, ifm electronic**, elaborated on emerging trends and new growth opportunities in India.

How does IFM support the machine tool industry?

Our company has deep roots in the machine tool industry, particularly in Germany, where we gained extensive experience as an automotive supplier. The automotive sector demands precision and reliability, as machine tools play a crucial role in manufacturing critical components. Through this journey, we have mastered the art of delivering high-quality, problem-solving solutions rather than just selling products.

Our sensors and control systems are designed to help customers maintain seamless operations. Machine tools often remain in service for decades, requiring periodic revisions and updates. With advancements in industrialisation, we help customers transition from conventional measuring techniques—such as inductive and optical sensors—to intelligent solutions that enable cloud-based monitoring without altering existing machine setups.

Ultimately, our goal is to simplify technology adoption for our customers. If they can grow and innovate, so can we. Instead of chasing quick sales, we believe in building long-term partnerships based on trust, reliability, and continuous improvement.

How do you see the opportunities in India?

The opportunities in India are massive. The pace of growth here is extraordinary—what took developed countries 20-30 years to accomplish has been achieved within 10 years. The country’s sheer size and industrial diversity make it a unique market. Our approach in India is to cater to a broad spectrum of customers. Whether they require conventional solutions or fully integrated Industry 4.0 systems, we ensure they have access to our



Fabian Habel,
Director - Global Business
Development, Product Sales &
Launch, ifm electronic

full range of services—from basic measurement tools to cloud connectivity and data analysis. Rather than pushing automation for the sake of it, we prefer demonstrating its potential benefits. Many companies hesitate to invest in Industry 4.0 because they view it as a cost burden rather than a value-driven initiative. Our role is to change that perception by showing tangible benefits and facilitating a smooth transition.

Technology adoption should be purposeful. If a company collects vast amounts of data without a clear objective, it leads to unnecessary expenditures in data storage and analysis. Instead, businesses should define their goals first and then implement solutions that help achieve them. Industrial transformation is inevitable, and as AI and automation evolve, we must focus on making these technologies accessible and meaningful.

What’s your focus at IMTEX 2025?

One of our key highlights is the IFM Mate, a worker assistance system that enhances manual assembly processes. It uses hand recognition technology to guide workers in picking the right components, reducing errors and improving efficiency. Unlike traditional ‘pick-to-light’ systems that illuminate the correct part but do not verify whether it was picked, IFM Mate ensures precise execution. It also integrates camera systems to provide visual confirmation, making it a valuable tool for minimising mistakes on the shop floor. This system is particularly beneficial in environments with frequent workforce changes, where new employees need quick onboarding. Instead of relying on complex manuals, they can follow intuitive, step-by-step guidance, ensuring accuracy and consistency in production.

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India EV Market Competition Grows: Bloomberg NEF

While growing demand and intensifying competition are driving several automakers to fund their expansion plans via the public markets.

India's annual electric vehicle sales grew 27 per cent to surpass 2 million units in 2024, and favourable operating costs and new federal policies will help continue the momentum this year. Electrification of municipal buses and building more fast chargers remain priorities for the government. While growing demand and intensifying competition are driving several automakers to fund their expansion plans via the public markets, remark, BloombergNEF.

- **Legacy two-wheeler makers overtake EV startups:** Electric models are now 2.6 per cent of all passenger vehicles sold in the country and competition is heating up. While Tata Motors retained its top spot, MG Motor was the biggest gainer: its market share grew to 25 per cent in 2024 from 13 per cent the year before. Startups and relatively newer players, which have until now dominated electric two-wheelers, are facing a growing threat from legacy automakers. The combined share of electric two-wheelers sold by TVS Motor, Bajaj Auto and Hero MotoCorp grew to 40 per cent from 29 per cent in 2023. Annual EV sales by Bajaj grew 2.7 times in 2024 and it is now the third-largest EV seller, overtaking Ather Energy.
- **Sales of electric commercial vehicles (vans and trucks) grew 2.5 times** in 2024 to over 6,220 vehicles. The expiration of federal subsidies for electric commercial vehicles in April 2024 led to a jump in sales early in the year as customers rushed to claim

the incentives. EV adoption is concentrated in the light commercial vehicle segment where demand is driven by delivery/logistics service providers adopting electric vans and small trucks due to lower operating costs and to fulfil decarbonization targets. Deployment of heavy electric truck is restricted to niche use-cases such as port operations and mining operations.

- **Investment:** Electric mobility firms headquartered in India secured \$1 billion in funding from venture capital, private equity investors and commercial banks in 2024. EV manufacturers picked up the bulk of this funding, closing deals of about \$671 million. Ola Electric became India's first pure-play EV company to be listed on public markets while Hyundai India's initial public offer was the country's biggest yet.
- **Maharashtra and Karnataka lead EV uptake:** In 2024, sales of passenger EVs and electric two-wheelers were the highest in the states of Maharashtra and Karnataka. Delhi now has the largest fleet of electric buses, surpassing Maharashtra. Delhi and Maharashtra host 49 per cent of India's e-bus fleet of 10,730 vehicles. Policy support, rising air pollution and low operating costs are encouraging Indian regional governments to deploy more e-buses on their roads.
- **Big year for policy announcements:** Electric trucks are set to receive their first ever upfront subsidies under the federal government's PM E-Drive Scheme announced in September 2024 – the country's third demand-side policy for the sector at the federal level. The government will continue to subsidise the purchase of e-buses, though this will be extended only to state transport utilities in nine cities, with priority to those that scrap older vehicles. A payment security mechanism will also be established for the purchase and operation of municipal e-buses, thus addressing the biggest bottleneck in increasing their uptake. Six states announced policies in 2024 that are tailored to incentivise electric vehicle demand and supply.

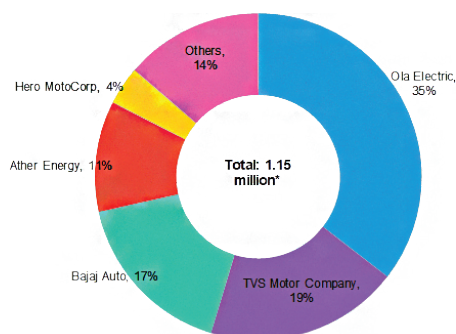


Figure 1: Share of EVs in India's two-wheeler sales, by automaker

Source: Ministry of Road Transport and Highways, BloombergNEF.
Note: *Charts do not include sales for Telangana due to data unavailability.

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(Courtesy: Bloomberg New Economy Forum)



"Switchgear is becoming increasingly digitalised."

Havells India Ltd is a leading fast-moving electrical goods (FMEG) company and a major power distribution equipment manufacturer with a strong global footprint. In this interaction with Rakesh Rao during Elecrama 2025, **Vivek Yadav, Executive Vice President, Havells India Ltd**, shares insights into emerging trends in the switchgear industry and the company's growth plans.

How has the switchgear market performed in recent years, and how has Havells performed in this business?

Over the past few years, the switchgear market has been growing at a high single-digit rate. Following the setbacks caused by the pandemic, the market has seen significant growth, particularly in the infrastructure segment, which has performed exceptionally well. Additionally, the demand for switchgear has increased in the commercial and residential building sectors. At Havells, we have made substantial investments over the last four to five years to upgrade our entire product portfolio. At Elecrama, we are showcasing the results of our efforts, displaying the products that have successfully made it to the market.



Vivek Yadav,
Executive VP,
Havells India Ltd

What are the key drivers of growth in the switchgear market?

The primary growth drivers in this industry include power gear and control gear, both of which are witnessing increasing demand due to rising electrification, particularly in smaller towns. This surge is largely driven by the need for final distribution products. Additionally, the government's strong focus on infrastructure development has significantly contributed to the expansion of the switchgear business.

The market for power gear and control gear is estimated to be around ₹10 billion and has been growing at a high single-digit rate over the last five years. The future outlook remains positive, as India's economic growth is largely driven by rising consumer demand, a growing middle class, and a strong infrastructure push from the government.

What is your division's contribution to the overall revenue of the group?

The overall revenue of the group has been expanding rapidly. Industrial products division has also been growing steadily. Currently, our business contributes around 3-4 per cent of Havells' total revenue. When considering the broader switchgear category—including consumer-side switches—this segment accounts for nearly 8 per cent of the company's total revenue.

What are the emerging trends in the switchgear market, and how is Havells capitalising on these opportunities?

Switchgear is becoming increasingly digitalized and more communicable. Both B2B and B2C consumers are now seeking solutions that provide real-time information accessible on mobile devices and computer screens. As a result, digitalization is playing a key role in the evolution of switchgear.

Are there any new innovations your division is highlighting at Elecrama?

Yes, everything I have mentioned can be seen in our latest product offerings. We are expanding our product range to stay competitive in the market. The features of our products are not only on par with the best in the industry but, in some cases, even offer a competitive edge. All our showcased products are digitized, allowing users to remotely control operations and monitor all key parameters on their mobile devices or laptops.

What is your division's growth strategy moving forward?

Currently, Havells' exports account for a small portion of the total business, with around 5 per cent of total. Notably, almost 50 per cent of this export revenue comes from the switchgear segment. In terms of expansion, we continue to invest in our capabilities.

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"Our India solutions are built for tough environments."

With over 40 years of experience, Yudo has established itself as a pioneer in the sector, providing solutions that enhance the quality and sustainability of plastic products across various sectors, including automotive, packaging, medical, and consumer goods, **Vishal Agarwal, President, Yudo Hot Runner India Pvt Ltd.**

Tell us a little about the company and your contribution to the industry.

YUDO Group, established in 1985, is a global innovator in hot runner systems, temperature control solutions, and injection moulding technologies. With over three decades of expertise, YUDO serves diverse sectors, including automotive, packaging, electronics, and healthcare, operating in more than 50 countries. The company has been instrumental in advancing smart manufacturing through IoT-integrated systems and energy-efficient designs, significantly reducing material waste and energy consumption. Our commitment to R&D, evidenced by multiple patents and global innovation centres, has positioned it as a pioneer in sustainable manufacturing practices, aligning with global decarbonisation goals.

With over 40 years of experience, we have established ourselves as a pioneer in the industry, providing innovative solutions that enhance the quality and sustainability of plastic products across various sectors, including automotive, packaging, medical, and consumer goods. Our unwavering focus on customer-centric solutions and high-performance systems has enabled us to build long-lasting relationships with global manufacturers, ensuring their success in an evolving market landscape.

What are the key trends currently shaping the industry? What is your outlook towards the current market?

The hot runner industry is shaped by several key trends, including integrating Industry 4.0 technologies, focusing on energy efficiency and sustainability, and advancements in material compatibility and processing capabilities. The market is experiencing robust growth, driven by rising demand for automotive, packaging, and healthcare.



Vishal Agarwal,
President, Yudo Hot Runner
India Pvt Ltd

Sustainability is becoming a major driver in the industry, with manufacturers increasingly adopting recyclable and bio-based materials. Additionally, the shift towards EVs and lightweight components is creating new opportunities for hot runner technology, as precision and efficiency become more critical than ever.

Digitalisation, through AI-driven monitoring and predictive maintenance, is also gaining traction, enabling manufacturers to optimise production and reduce downtime. We anticipate strong growth, particularly in emerging markets like India, where sectors such as electric mobility and sustainable packaging are expanding rapidly. As global regulations

push for greener alternatives, our innovative solutions are helping manufacturers transition smoothly while maintaining high efficiency and cost-effectiveness. We remain optimistic, leveraging our agile R&D and localised production to meet evolving demands, ensuring that our clients benefit from cutting-edge technology that aligns with the latest industry trends.

How does YUDO ensure its technology remains ahead of the curve in an ever-evolving market?

YUDO remains at the forefront of the industry through continuous innovation and a strong commitment to research and development. We invest significantly in creating new technologies, including our ISO diffusion bonding process and Yudrive II servo-driven hot runner systems, which provide exceptional performance and efficiency. Furthermore, we prioritise customer feedback and market trends to ensure our solutions address the evolving needs of our clients. Our global network and collaborative approach allow us to maintain our position at the top of technological advancements in the industry.

We invest in R&D, collaborating with clients and



We anticipate strong growth, particularly in emerging markets like India, where sectors such as e-mobility and sustainable packaging are expanding rapidly.

academic institutions to co-develop solutions. Recent breakthroughs include AI-driven hot runner systems for real-time defect detection and hybrid energy systems that reduce carbon footprints. The company's global network of innovation hubs in South Korea, Germany, and India fosters cross-border technological tie-ups. By constantly refining our manufacturing processes and incorporating smart factory solutions, we ensure our customers stay ahead in a competitive marketplace. Our ability to adapt to dynamic industry trends and regulatory requirements positions us as a trusted partner for manufacturers seeking sustainable and high-performance solutions.

YUDO has been in the Indian market for 24 years. How has the company adjusted its approach to cater to the specific needs of the Indian market?

We have customised our approach to the Indian market by leveraging local expertise and understanding the unique requirements of Indian manufacturers. We have established a strong presence in India, concentrating on providing advanced hot runner systems and temperature controllers that cater to the needs of industries such as automotive, packaging, medical, electronics, CPVC pipe fittings, and consumer goods.

By setting up localised manufacturing and support centres, we have ensured quick turnaround times and enhanced customer service. Our India-specific solutions are designed to withstand challenging manufacturing environments while maintaining global quality standards. Additionally, we have partnered with local mould makers and OEMs to develop cost-effective and high-performance solutions tailored to India's fast-growing industrial landscape. Our commitment to innovation and quality has enabled us to forge relationships with our Indian clients, ensuring we deliver solutions that minimise waste. Furthermore, we actively participate in industry forums, trade shows, and training programmes to educate and support Indian manufacturers in adopting hot runner technology.

How do your solutions cater to the unique needs of the automotive industry, especially with the increasing demand for electric vehicles?

Our solutions are tailored to meet the specific demands of the automotive industry, including the burgeoning need for electric vehicles (EVs). Our hot runner systems facilitate the production of complex and high-quality plastic components essential for EVs, such as battery housings, pre-coloured, 2K, and lightweight structural parts. By providing precise temperature control and minimising material waste, our technologies assist automotive manufacturers in achieving greater efficiency and sustainability in their production processes. As EV production scales up, the need for durable, lightweight, and aesthetically superior components grows.

Our systems enable seamless integration of advanced materials, including fibre-reinforced plastics, to enhance vehicle efficiency without compromising on strength. Additionally, we work closely with OEMs and tier-one suppliers to develop custom hot runner solutions that meet stringent automotive standards while reducing costs and cycle times.



Digitalisation, through AI-driven monitoring and predictive maintenance, is gaining traction.

What role does YUDO's technology play in enhancing production efficiency and sustainability in the packaging industry?

Our hot runner systems in the packaging industry are essential for enhancing production efficiency and sustainability. Our technologies minimise resin waste and improve the quality of plastic products, making them more environmentally friendly. By optimising the injection moulding process, we assist packaging manufacturers in achieving faster cycle times, reduced energy consumption, and less material waste, contributing to a more sustainable and cost-effective production operation. Our temperature control and gate-sealing technologies ensure superior product consistency. As the demand for sustainable packaging continues to rise, our innovative solutions empower businesses to meet regulatory requirements while maintaining high productivity and profitability.

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Texmaco Rail and Nevomo to Create New Era of Rail Infra

The production line is expected to start operations in Q1 2026 and will deliver railway wheels to Indian Railways over the next 20 years.



In a monumental stride for the global railway sector, Texmaco Rail & Engineering Ltd, India's premier rail solutions provider, has entered into a strategic Memorandum of Understanding (MoU) with Nevomo, a Polish technology entity founded in 2017, a European pioneer in next-generation Magrail technology and Linear Propulsion Systems along with related technology solutions. This pioneering agreement heralds a new era of rail infrastructure innovation, high-speed rail solutions, AI-powered predictive diagnostics, self-propelled wagons, and driverless freight trains to revolutionise mobility in India and on the global stage.

This alliance aims to redefine the rail industry by co-developing and implementing Nevomo's cutting-edge Magrail technology and Linear Propulsion Systems along with related technology solutions. Leveraging Texmaco's extensive manufacturing capabilities and Nevomo's technological prowess, the collaboration aspires to bolster rail network efficiency, expand capacity, and modernise existing railway & port systems along with quantum efficiency improvement in mines, captive rail & logistics setup. Furthermore, it underscores India's vision to become a global leader in next-generation transportation solutions and make-in-India initiatives.

The collaboration will prioritise Magrail-based solutions, seamlessly enhancing efficiency, capacity, and speed by integrating them with existing rail infrastructure. Leveraging Texmaco's expansive manufacturing capabilities and Nevomo's technological



expertise, the partnership aims to introduce advanced rail solutions to global markets. A dedicated R&D centre will be established in the GCC region to drive next-generation railway mobility, including AI-driven management, predictive maintenance, and autonomous self-propelled rolling stock. Emphasising sustainable and smart mobility, the initiative will support eco-friendly, energy-efficient transportation and high-speed rail development. The partnership will also implement AI-driven diagnostics and automation tools for predictive track monitoring, fault detection, and automated maintenance scheduling to enhance safety and minimise downtime. Additionally, the development of next-generation self-propelled, driverless freight trains is expected to optimise cargo transport, reduce operational costs, and improve logistics and port connectivity.

SME



JumboFlex Vacuum Tube Lifter: An Ergonomic Solution

The JumboFlex has been the first choice for many years when it comes to moving workpieces weighing up to 50 kilograms.



Simpler. More efficient. More ergonomic. The tried-and-tested JumboFlex optimises handling processes thanks to smart adaptations. Its handle fits perfectly in the hand - regardless of its size. The redesign makes the vacuum tube lifter intuitive to use and significantly reduces the training time for new skilled workers.

The JumboFlex has been the first choice for many years when it comes to moving workpieces weighing up to 50 kilograms. With its help, employees handle goods ergonomically and with a high cycle frequency. Schmalz is now proving that good things can be optimised with the redesign of the vacuum tube lifter. The new control handle is now even better suited to different hand sizes, allowing small hands to grip just as safely and fatigue-free as larger ones.

The two operating buttons are also new, replacing the single-button control. They control the up and down movement in opposite directions and are intuitive to use, allowing new employees to work productively even faster and direct the tube lifter even more precisely. If required, loads can be brought to a standstill in a floating position at any height, enabling further process steps to be carried out on the workpiece being handled.

Fast gripper changes with high workpiece variance

Thanks to the double-speed gripper change, employees handle different workpieces without interfering with handling processes. The employee can simply slide the end effector into the holder with a flick of the wrist. A simple tweezer handle for releasing the gripper enables really quick changes and prevents



Thanks to the new two-button operation, the specialists control the up and down movement intuitively.



The tweezer handle enables real quick change of the gripper and prevents accidental release.

accidental release. If the new gripper is not properly engaged, employees receive a visual warning. A rotating mechanism, which is operated via a simple and intuitive slider, allows the workpiece being handled to be rotated 360 degrees or fixed in 90-degree increments.

When configuring the JumboFlex, users can choose between several variants and circuitry. An optional display, which is controlled via a foil keypad, informs the specialist about the weight of the goods. This saves companies additional weighing, especially when picking in the dispatch area.

AUTO RECLOSE RELAY WITH FAST RESET - JRV 142

JVS Electronics Pvt Ltd offers a wide range of auto reclose relay with fast reset - JRV 142.

**Features:**

- The relay receives the fault initiation from the protection relay and that triggers the auto reclose function. After tripping the circuit breaker (CB), the Auto reclose function can reclose the CB. Normally, the first reclose (or shot) is so short in time, that the consumer cannot notice anything.
- The auto reclose function is normally used in feeder protection relays that are protecting an overhead line. Most of the overhead line faults are temporary in nature. Upto 85% can be cleared by using the auto reclose function.
- Its features include: software based design; Built- in Auto / Manual selection facility; Fast reset facility; No. of shots selectable; High accuracy and stability; Drawout case.

About the Company: JVS Electronics Pvt Ltd is an exporter, manufacturer and supplier of audio indicating

instruments, visual indicating instruments, electrical indicating instruments, etc.

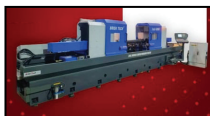
Contact:

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

Scan the QR Code for instant product enquiry

**END MACHINING CENTRE**

Brisk Tech Engineers offers a wide range of end machining centre.

**Features:**

- This machine is suitable for tractor manufacturing and conveyor manufacturing applications.
- Cutting edge operations are as follows: Rotary triller: facing, ID/OD chamfer, turning, threading.
- Idler Conveyor pipe: Boring, facing, ID/OD chamfer.

About the Company: Brisk Tech Engineers, based in Bangalore, is a trusted name in the field of precision engineering. We specialize in delivering innovative CNC machining solutions that cater to diverse industries. With a strong commitment to quality, advanced technology, and customer-centric services, we have built a reputation for excellence in both product performance and client

satisfaction. Our expertise ensures that we consistently meet the evolving needs of the manufacturing sector.

Contact:

Brisk Tech Engineers, Bangalore
Mobile: 09448479855, 07892743816
Email: info@brisktechengineers.com

Scan the QR Code for instant product enquiry

**GEARED ELECTRIC MOTORS**

Delco Fans Pvt Ltd offers a wide range of geared electric motor.

**Features:**

- Wide variety and range to meet trouble free application for original equipment manufacturers. Motors are available in Inline Helical type and also Worm reduction. Both side shaft rotation available. Ball Bearing to motor and Gearbox also. For Worm Gearboxes output shaft perpendicular to motor – downward / upward or sideways. Product available from 1/20 Hp to 1/2 Hp. Output speed available from 0.5 RPM to 300 RPM.
- Its application areas: Office equipment's; Popcorn machines; Medical equipment's; Diamond cutting and polishing machines; Vending machines.

About the Company: Delco Fans Pvt Ltd established in 1975. Their manufacturing range consists of FHP Electric Motors, Geared Electric Motors, Centrifugal Blowers and Industrial Fans. Presently they deal with more than 900 clients in India and Abroad.

Contact:

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

Scan the QR Code for instant product enquiry

**HIGH-PERFORMANCE ELECTRIC TWO-WHEEL POWERTRAIN**

Delta Electronics India Private Limited offers a wide range of high-performance electric two-wheel powertrain.

**Features:**

- Eco-Friendly: Designed to support the transition to sustainable urban mobility. Enhanced Power and Efficiency: Integrated design optimizes energy usage for longer battery life. IP67 Rating: With waterproof and dustproof capabilities, these powertrains withstand challenging environments.
- Two-Wheel Powertrains offer the following benefits: 4-in-1 Integrated Powertrain; Compact Design with High Torque; Flexible Integration with Ecosystem Partners.

About the Company: Delta Electronics India has been at the EPI Center of shift that is needed for today's complex industrial ecosystem of interconnected equipment and smart industrial assets for over two decades.

Contact:

Delta Electronics India Private Limited, Bangalore
Tel: 080-68141800 Mobile: 09953882197
Email: sanjay.gupta@deltaww.com

Scan the QR Code for instant product enquiry



FILES

PFERD offers a wide range of files.

Features:

- For manual roughing, finishing, chamfering and sharpening tasks, PFERD offers an extensive range of files and rasps, holders, handles and devices ideal for coarse to delicate work on a variety of materials.



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

Tel: 080-42187117

Mobile: 09880665415, 09741481117

Email: sales@swit.in

Scan the QR Code for instant product enquiry



PROPORTIONAL ROTARY SOLENOIDS

Magnets India offers a wide range of proportional rotary solenoids.

Features:

- These proportional rotary solenoids proportional rotary solenoid according to DIN VDE 0580 Horizontal torque vs. rotation angle characteristic constant torque in the working area Proportional relation between torque and current Short correcting times through per-magnetized system clockwise and anti clockwise.
- Drive for industrial control units, control technology, rotary slides and flap valves in fluid technology.
- By reversing the polarity armature guided in ball bearings Insulation materials of excitation winding correspond to thermal class B Electrical connection and protection class with duly executed installation free flexible lead ends Protection class according to DIN VDE 0470-1/DIN EN 60529 - IP 20.



About the Company: Established in the year, 1997, we 'Magnets India', are one of the leading trader, distributor & suppliers of an extensive range of Electromagnetic Actuators and Electromagnetic Products. We have forged business association with Magnet-Schultz GmbH and Co, KG Memmingen Germany (MSM). This organization is globally renowned for their superior quality of products, which are assured of precise make and functioning.

Contact:

Magnets India, Chennai

Tel: 044-42833346

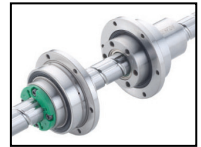
Mobile: 09840091969

Email: info@magnetsindia.net



COMPOUND BALL SPLINES

IBK Engineers Pvt Ltd offers a wide range of compound ball splines - ball screw spline (FBR type).



Features:

- This is spiral type ball spline. An integration of Rotary ball spline and ball screw.
- The combination of the two nuts achieves linear, rotary, and helical motion.
- SCARA Robots, wafer polishing equipment, winding machines.

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, steel rear sprocket, safety equipment, automotive components, electric equipment, etc.

Scan the QR Code for instant product enquiry



Contact:

IBK Engineers Pvt Ltd, Bengaluru

Tel: 080-26321112

Mobile: 09880566644

Email: raju.kn@ibizkart.com

ADHESIVE GRIPPERS - ADHESO

Schunk Intec India Pvt Ltd offers a wide range of adhesive grippers Adheso.



Features:

- The gripper technology of ADHESO grippers is based on an adhesive system modeled on nature. The adhesive forces used by animals such as geckos for locomotion are now being utilized by Schunk for handling applications in the most diverse of fields.
- The bionically inspired ADHESO gripper technology is based on the principle of adhesion and uses inter molecularly acting Van der Waals forces to handle various work pieces.
- SCHUNK's application experts take advantage of these benefits and develop customer-specific adhesive grippers with ADHESO gripper technology. Due to the high variability of the adhesive structures, grippers with ADHESO technology can be directly tailored to the requirements of your application.

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.

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Contact:

Schunk Intec India Pvt Ltd, Bangalore

Tel: 080-40538999

Email: rakhi.singh@in.schunk.com,

info@in.schunk.com

SIPL 6 SMART BREATHALYSER WITH MEMORY & DATALOGGING

Subtronics introduced its latest addition to their range of Breath Alcohol Analysers :

Model : SIPL 6 with memory and data

logging features.

Features:

- Based on the latest XLP - Extreme Low Power chip with 16 bit ADC, this portable, light weight, single handed breath alcohol analyser accurately detects the presence of alcohol vapours in breath and activates an alarm when the BAC level exceeds the preset level before introducing intoxication and the user can be warned immediately.
- Reading can be saved to the micro SD Memory Card which also enables the data transfer to PC and can store upto 3 lakh readings. With the special dedicated 'Subtronics DataLogging' software, user can take evidential receipt prints with details like date, time, reading, device ID and even enter custom remarks such as Subject's name, your company's logo on receipts, etc.
- In addition to the present offering, the newer SIPL 6 host key features like : High performance 16 bit ADC for higher accuracy and faster response time; 32GB SD Card for memory storage; Store up to 3 lakh readings; Three Status indicators - safe, warn & alert; Password restricted menu access; Quick test mode with no delay; Guided test sampling process; Confidence beep for user alertness; Taptic vibrator feedback; Stealth mode for discreet checking; Dual line alpha-numeric display; Auto and On-demand Screen backlight; Built-in battery cell for clock and date; Rechargeable easily replacable Li-Ion batteries; 12 hours operation with battery management.
- With the "Subtronics DataLog" software, the recorded data from SIPL 6 can be transferred to the computer and archived, the transferred data can be viewed, edited, saved to different media, and reports can be received / printed.
- Its applications include: Applications include Industries, Pharmaceuticals, Chemical factories, Garment factories, Cinema Theatres, Malls, Automobile factories, Hotels & Restaurants, etc.

About the company: Subtronics is an ISO 9001 certified company and has been passionately manufacturing detection devices for over 46 years with over 4500 clients and is the recipient of 34 awards for its excellence and contribution to the field of safety.

Scan the QR Code for instant product enquiry



Contact:

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



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

SINGLE POLE, NON-DIRECTIONAL, IDMT O/C OR E/F RELAY-JRC 051P/JRC 051



JVS Electronics Pvt Ltd offers a wide range of single pole, non-directional, IDMT O/C OR E/F relay-JRC 051P/JRC 051.

Features:

- The relay measures the line current from each of the phases and if exceeds the set operating current, then relay extends a trip signal after the operating time. The relays operating time is determined by selecting one of the four inverse time current characteristics.
- The relay provides time graded phase or earth fault protection of Generators, Transformers, Feeder, capacitors etc.

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

Contact:

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

Scan the QR Code for instant product enquiry



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.
- With constant improvement in technology, furnaces require rapid and uniform charging to keep pace with the melting power of the system for which the Furnace chargers are the optimum solution.
- 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.
- 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, etc.

Contact:

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

Scan the QR Code for instant product enquiry



“KUSAM-MECO” PARTIAL DISCHARGE ACOUSTIC IMAGER - MODEL - KM-PDAI



‘Kusam-Meco’ has introduced a new “Partial Discharge Acoustic Imager Model KM-PDAI.

Features:

- It is an ideal instrument which can be used as a standalone system for acoustic image measurements and signal analysis. It is a rugged, versatile tool which can help to easily identify a variety of undesirable industrial conditions, like electric faults, gas leaks.
- By adding an optional Thermal Camera part, the KM-PDAI can change functions between acoustic imaging and Thermal Imaging, making the diagnosis more comprehensive and efficient.
- The detection distance is 0.3m ~ 100m. It has storage capacity 64GB; Max 128GB. The Display is 7”, with resolution 1280 x 800 pixel. The Resolution of thermal camera is 640 x 512 pixel. The Temperature measurement range is -20°C ~ 650°C with adjustable.

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.

Scan the QR Code for instant product enquiry



Contact:

*Kusam Electrical Industries Ltd, Navi
Mumbai
Mobile: 09594058456, 09594057456
Email: sales@kusam-meco.co.in*

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*

Scan the QR Code for instant product enquiry



QUICK RELEASE COUPLERS

Vijay Air Control offers a wide range of quick release couplers -New Generation = ST Series.



Features:

- Its valveless construction drastically saves pressure loss and achieves high flow rate.
- It is suitable for high viscosity fluids (such as grease).
- Available in various standard body materials, sizes and end configurations to cope with diversified and operating situations.

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



SHAFT & AXLE MEASURING MACHINES

Blum-Novotest Measuring & Testing Technology Pvt Ltd offers a wide range of shaft & axle measuring machines.



Features:

- The multipoint measuring machines for rotationally symmetric work pieces offer quick acquisition of component geometry during dynamic measurement.
- Loading is possible manually as well as automatically. Its loading position is easy accessible from above right on top of the final measuring position.
- Its features include: Post-process multipoint measuring system with independent PLC. Easy integration into existing automation system. Short, optimised feed motions. Flexibly configurable measuring unit using measuring forks/callipers with intelligent universal clamping system.

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
Tel: 080-23185468 Mobile: 09075004435
Email: info@blumnovotestindia.in

Scan the QR Code for instant product enquiry



FREQUENCY INVERTOR - SJ200 SERIES

Pro-Med Instruments (P) Ltd offers a wide range of frequency inverter - SJ200 series.



Features:

- The SJ200 is a true muscle-man, featuring enhanced ISPM-technology with vector control. Outstanding performance and design characteristics, such as superior torque for demanding applications and exceptionally compact size, for SJ200 inverter in a class of their own.
- They are suited for various applications in textile, paper and printing industries as well as for all areas of the metalworking industry, cranes and elevators.

About the Company: Pro-Med Instruments (P) Ltd, was incorporated in 1994 by a team of highly skilled professionals having experience for the past 15 years in process control instrumentation field with an objective to cater to the growing need for superior products having

latest technology. They deal the products of Shinko, Hitachi, Brain Child, Autonics, Germs Sensors, RKC and Kyowa.

Contact:

Pro-Med Instruments (P) Ltd, Chennai
Tel: 044-42132295 Mobile: 09840832296
Email: sales@promedindia.com

Scan the QR Code for instant product enquiry



POWER HYDRAULIC MACHINE VICE

B R Precisions offers a wide range of power hydraulic machine vice.



Features:

- This type of Power Hydraulic vice Is suitable for Horizontal and vertical combined heavy cutting for CNC machining center VMC and HMC angle fixed type spherical segment ball can produce the force for angle locking which can make the vice plate floating upward and avoid slanting of the workpiece.
- Powerful material cast iron with high absorption and has strong anti-tension which can keep long durability for absorption and has strong rigidity with high precision tenon slot grounded, Made out of high tensile casting machined and surface ground to ensure maximum accuracy jaw plates.

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

Scan the QR Code for instant product enquiry



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 0.01mm and micro feed least count in 0.001 mm.
- These machines are available in various sizes: 450 X 225 mm , 600 X 300 mm.

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 Mobile: 09845006959
Email: universalblr@gmail.com,
info@universalblr.com

Scan the QR Code for instant product enquiry



WIRE HARNESS

Miracle Electronic Devices Pvt Ltd offers a wide range of wire harness.



Features:

- As a leading looms manufacturer in India, we exemplify the commitment to excellence in providing cutting-edge wire harness solutions that meet the highest industry standards. Offered a range of wiring solutions, including circular connectors, D sub connectors, Mil-spec. connectors, D-38999 circular connectors, UL 1015 / 1007 grade PVC lead wires, Mil-W-16878, Mil-W-22759, and more.
- These harnesses cater to various applications such as single & discrete EMI cables, EMI-shielded cable harnesses, wiring harness multiwire, flat cable harness assembly, RF cable assembly, airborne looms, ribbon cable harness assembly, power cable, etc.

About the Company: Miracle Electronics is a renowned Transformer manufacturer in India, engaged in manufacturing power transformers, toroidal transformers, etc.

Contact:

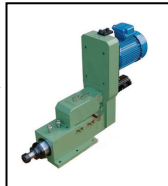
Miracle Electronic Devices Pvt Ltd,
Bangalore
Tel: 080-28362750
Email: sales@miracle.net.in

Scan the QR Code for instant product enquiry



SERVO TYPE DRILLING/ TAPPING SPINDLE HEAD UNIT

Secon Technological Solutions Inc offers a wide range of servo type drilling/tapping spindle head unit.



Features:

- Every hardy precision spindle is built with high rigidity and quality housing material which is process by boring and honing. All spindles are made of alloy steel with the process of heat-treatment.
- The accuracy of the spindle is strictly under 0.003mm, this unit allows it to perform all types of machining applications such as drilling, peck drilling, threading, tapping, chamfering, reaming and countersinking.
- Standard 3-phase AC motor 0.75kW is included, optional motor up to 1.5kW. Belt driven at fixed speed and incorporated with a timing, V or Poly-V belt.

About the Company: Secon Technological Solutions Inc. is engaged as a manufacturer, trader, service provider, distributor of CNC machines tools, etc.

Contact:

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

Scan the QR Code for instant product enquiry



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 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: Khanwalkaro8@gmail.com

Scan the QR Code for instant product enquiry



TRANSMISSION CHAIN COUPLING

Hasmukhlal & Brothers offers a wide range of chain coupling. These offered products are used to join two pieces of rotating equipment while permitting the various degree of misalignment or end movement or both.



Scan the QR Code for instant product enquiry



Contact:

*Has Mukhlal & Brothers, Rajkot
Mobile: 09825340600, 9879760004
Email: bonnaflex@gmail.com*

PLANT SMSR GEARBOX

Micro Precision Works offers a wide range of coal plant SMSR gearbox. Being a foremost organization in this industry, they are actively engaged in offering the finest quality range of coal plant SMSR gearbox.



Scan the QR Code for instant product enquiry

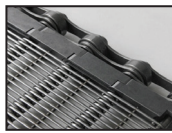


Contact:

*Micro Precision Works, Ahmedabad
Tel: 079-25893824
Mobile: 09924304636, 09824001570
Email: microgearbox@gmail.com, info@microprecisionworks.com*

INDUSTRIAL EYELINK BELTS

A G Belting Pvt Ltd offers a wide range of eyelink belts. Eyelink belts combine a flat, stable surface with the dimensional stability and robustness of metal and are well suited to heavy loads and unstable or fragile products requiring good support.



Scan the QR Code for instant product enquiry



Contact:

*A G Belting Pvt Ltd, Ghaziabad
Tel: 0120-4159660, 4313588
Mobile: 09810979977, 08800466515
Email: info@agengineers.net*

ELEVATOR CHAIN

Tripcon Engineering Pvt Ltd offers a wide range of conveyor elevator chain. Offered this range in different styles of attachments such as K2, K24, K3, K44, K443, to meet the distinctive requirements of their clients.



Scan the QR Code for instant product enquiry



Contact:

*Tripcon Engineering Pvt Ltd, Anand
Tel: 02692-236031
Mobile: 09825089070, 08347556104
Email: response@elevatorchains.com*

CHAIN SPROCKET & TRAILING WHEEL

National Engineering Works offers a wide range of link chain sprocket & trailing wheel. These chain wheels with projecting teeth replaceable rim type, with pocket teeth one piece casting, pocket teeth replaceable rim, suitable for calibrated round.



Scan the QR Code for instant product enquiry



Contact:

*National Engineering Works, Kolkata
Mobile: 092318-20839
Email: nationalengg@bsnl.in*

DEEP HOLE GRINDING SPINDLES

Capital Engineering Corporation offers a wide range of motorized deep hole grinding spindles. These motorized deep hole grinding spindles are used in various grinding spindles.



Scan the QR Code for instant product enquiry



Contact:

*Capital Engineering Corporation, New Delhi
Mobile: 09810056849
Email: yogesh@capitalspindles.com*

PREMIUM ANILOX ROLLER

Anar Rub Tech Pvt Ltd offers a wide range of anilox roller. These are fabricated with premium grade material. These products are abrasion resistant and are long lasting in nature as well. Ceramic anilox rollers provided by us are well known for their quality and durability.



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Contact:

*Anar Rub Tech Pvt Ltd, Ahmedabad
Tel: 079-22743428, 22773428
Mobile: 09825405265, 09825047390
Email: sales@anarrubber.com*

METAL EXPANSION JOINTS

RMS Corporation offers a wide range of metal expansion joints with fixed flanges. This metal expansion joints with fixed flanges are elastic pipe elements designed to provide compensation for expansion movements and vibrations in the pipelines.



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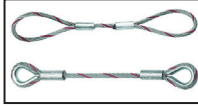


Contact:

*RMS Corporation, Mumbai
Tel: 022-67377700, 67377701
Mobile: 09323804063, 09167245537
Email: rms_corp@vsnl.net, rms.corpn@gmail.com*

SS WIRE ROPE SLING

A M Jeewajee & Sons offers a wide range of stainless steel wire rope sling. The offered range of sling is also used to transmit force in mechanisms, such as to control surfaces of an airplane connected to levers and pedals in the cockpit. .



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Contact:

A M Jeewajee & Sons, Kolkata
 Tel: 033-22300957, 39855836
 Mobile: 09830059710, 09830270753
 Email: amjs_52@hotmail.com

SPEED REDUCER

MGM-Varvel Power Transmission Pvt Ltd offers a wide range of bevel speed reducer. These bevel speed reducer has wide applications in various automobile parts and in other machinery.



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Contact:

MGM-Varvel Power Transmission Pvt Ltd, Chennai
 Tel: 044-65681815, 64627008
 Mobile: 08754470747
 Email: info@mgmvarvelindia.com

SHOCK ABSORBER

Stellent Technologies is offering hydraulic shock absorber for moving loads with deceleration over the full stroke. The product has the lowest braking force and shortest braking time.



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Contact:

Stellent Technologies Pvt Ltd, Gandhinagar
 Mobile: 09909949297, 09924602804
 Email: info@stellenttech.com

CRANKSHAFTS

ORM Engineering has a wide assortment of crankshafts. These crankshafts are expertly manufactured using premium grade raw material and pioneering techniques in keeping with set industry standards.



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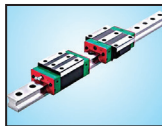


Contact:

ORM Engineering Pvt Ltd, Faridabad
 Tel: 0129-4070114
 Mobile: 09811596516, 09899724752
 Email: rajesh@orm.co.in

RAIL SYSTEMS

Jinisha Electrolites offers a wide assortment of ball rail systems. These rail systems are made with extensive knowledge of contemporary trends and client requirements. A wide assortment of ball rail systems is offered in different specifications at market leading rates.



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Contact:

Jinisha Electrolites, Mumbai
 Mobile: 09820096668, 09969872315
 Email: jinishaelectrolites@gmail.com

FLEXIBLE SHAFT

A M Associates is offering flexible shaft grinding machines. These products are widely used in fabrication workshops, foundries and heavy industries. They are suitable for heavy jobs and/or jobs where it is not possible.



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Contact:

A M Associates, Chennai
 Tel: 044-42165253, 25240682
 Mobile: 09789881464, 09789881872
 Email: aic.loyal@gmail.com

QUALITY TORQUE LIMITERS

Pethe Industrial Marketing Co Pvt Ltd offers a range of quality torque limiters. These limiters are precisely engineered based on the industry parameters using good quality material obtained from authentic vendors.



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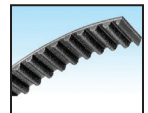


Contact:

Pethe Industrial Marketing Company Pvt Ltd, Mumbai 400 028
 Tel: 022-24223976, 24303460
 Mobile: 09821936459
 Email: response@petheind.com, petheind@yahoo.com

TIMING BELTS

Global Sales & Engineering Company manufactures synchronous timing belts. These belts are best described as belts with integrally moulded teeth on the inside which makes positive engagement with axially grooved pulley. Synchronous belts are also known as timing belts.



Scan the QR Code for instant product enquiry



Contact:

Global Sales & Engineering Services, Nagpur
 Mobile: 07767817732, 07767817731
 Email: globalsalesengineering@gmail.com

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 valued clients for light weight and can be available in various models.



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Contact:

*Jamshedji Constro Equip Pvt Ltd, Pune
Tel: 020-27130682, 27130332
Mobile: 09172222137, 09850153305
Email: info@jamshedji.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.



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Contact:

*Mortek Machinery Pvt Ltd, Ahmedabad
Tel: 079-25840960
Mobile: 07624011874, 09427011874
Email: mail.mortek@gmail.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 hand fed mixer, giving it the same dependable features and world class quality and workmanship



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Contact:

*Esquire Machines Pvt Ltd, Vadodara
Mobile: 07069727357, 08758895096
Email: getintouch@esquiremachines.com*

CONSTRUCTION CONE CRUSHER

Creative Enterprises offers a wide range of construction cone crushers. These crushers have reliable construction, high productivity, easy adjustment and lower operational COSTS.



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Contact:

*Creative Enterprises, Jaipur
Mobile: 09352174343, 09829601578
Email: construetbetter@yahoo.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 specifications; they are stringently tested on several parameters to eliminate defects.



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Contact:

*Rajat Equipments Pvt Ltd, Raipur
Mobile: 09826421900, 09926936300
Email: info@rajat-group.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. The products are inspected on numerous parameters before delivery.



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Contact:

*Suretech Infrastructure Pvt Ltd, Panvel
Tel: 022-27431868
Mobile: 07021139961, 09967987913
Email: sunil@suretech.co.in*

DOUBLE TOGGLE JAW CRUSHER

Precious Mineral Processing Systems offers double toggle jaw crusher. The range of double toggle jaw crushers is manufactured with innovative techniques, high-grade raw material and strictly complies with international quality norms; checked on varied parameters.



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Contact:

*Precious Mineral Processing Systems Pvt Ltd, Ahmedabad
Mobile: 09974088696
Email: info@preciousfabcast.com*

HEAVY DUTY LAND LEVELLERS

Punjab Agro Sales (India) manufactures and supplies heavy duty land levellers. Offered is a wide range of soil levellers that find application for land levelling and for facilitating uniform irrigation. These rugged implements can be directly fitted to the tractors.



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Contact:

*Punjab Agro Sales (India), Karnal
Mobile: 09255411474, 09034083063
Email: punjab_agro_india@yahoo.co.in*

RIVETING HAMMER

Hardware & Pneumatics offers a wide range of pneumatic riveting hammers. A rivet gun, also known as a pneumatic hammer, is a type of tool used to drive rivets; nearly all rivet guns are pneumatically powered. Those rivet guns used to drive rivets.



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Contact:

Hardware & Pneumatics, Kolkata
Tel: 033-22484842, 22432996
Mobile: 09831063719, 09874044351
Email: sales@hardwarepneumatics.in

SCAFFOLDING PLANKS

Aegis Scaffolding Services is a service provider and manufacturer of a range of scaffolding planks. These scaffolding board are made using superior quality raw material and latest methods of production. The products are manufactured under the guidance.



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Contact:

Aegis Scaffolding Services Pvt Ltd, Mumbai
Mobile: 09930450958, 08600376735
Email: aegisscaffolding@gmail.com

BATCHING PLANT

Nilkanth Engineering Works offers stationary concrete batching plants. The plant comprises of adequate capacity gravel and sand hoppers, weighing conveyor suspended on electronic load cells, pan type mixer unit, and additive tank.



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Contact:

Nilkanth Engineering Works, Ahmedabad
Tel: 079-25835553, 40085485
Mobile: 09825073105, 09904242413
Email: info@nilkanthengg.com

CONE CRUSHER

Laxmi En-Fab offers a wide range of gyratory cone crusher. Gyratory cone crushers are designated in size either by the gape and mantle diameter or by the size of the receiving opening, and are used for primary or secondary crushing.



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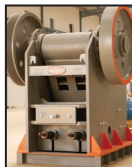


Contact:

Laxmi En-Fab Pvt Ltd, Ahmedabad
Mobile: 09725012749, 08980800839
Email: laxmienfab@gmail.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. They are made for more production, tough and large feed conditions.



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Contact:

Buildmate Projects Pvt Ltd, Hyderabad
Mobile: 07675989911, 09849019012
Email: mvr@buildmate.in, marketing@buildmate.in

SINGLE DRUM ROLLER

Topall Impex offers a wide range of walk behind single drum rollers - CYLo6. These hi-tech rollers are known for their smooth performance, durability, sturdiness and easy handling, and are widely used for construction and repairing of roads and also to maintain edges of highways.



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Contact:

Topall Impex, New Delhi
Mobile: 09716467843, 09350288831
Email: sales.topallimpex@gmail.com

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. It offers 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

BAR CUTTER MACHINE

Sona Construction Technologies Pvt Ltd offers a wide range of bar cutter machine. Reckoned as leaders in this industry, they are providing their esteemed clients with excellent quality bar cutter machine. The offered range is manufactured using high-grade components.



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Contact:

Sona Construction Technologies Pvt Ltd, New Delhi
Tel: 011-42430909, 27105123
Mobile: 09810034741, 09312908830
Email: sales@sonavibrators.com

Event	Date & Venue	Contact
INDIA FASTENER SHOW SOUTH CHENNAI	April 24-26, 2025 Chennai Trade Center, Chennai	FME (Future Market Events) Media Pvt Ltd Noida Email: eisha@futuremarketevents.com
PROWAVE EXPO - CHENNAI	April 24-26, 2025 Chennai Trade Center Chennai	Sai Solutions, Chennai, India Email: operations@saisolutions.info
BLECH INDIA - MUMBAI	May 08-10, 2025 Bombay Exhibition Centre (BEC) NESCO Mumbai	Mack Brooks Exhibitions Ltd United Kingdom of Great Britain and Northern Ireland Tel: +44 (0)1727 814400 Email: info@mackbrooks.com
INDIA MACHINE TOOLS SHOW - NEW DELHI	May 15-18, 2025 Yashobhoomi Convention Centre New Delhi	K AND D Communication Ltd. (KDCL) Ahmedabad Mobile: 099090-41613 Email: info@kdclglobal.com
INDOMACH - HYDERABAD	May 23-25, 2025 Hitex Exhibition Center Hyderabad	Indomach Business Solutions Nagpur Email: info.indomach@gmail.com
INDIA WAREHOUSING SHOW - NEW DELHI	June 26-28, 2025 IICC India international Convention and Expo Center New Delhi	RX India, Gurugram Tel: 0124-4774444 Email: Chandan.Kumar@rxglobal.com
AUTOROBOT - COIMBATORE	August 01-03, 2025 Codissia Trade Fair Complex Coimbatore	Midaas Touch Events & Trade Fairs LLP Chennai Mobile: 09600047460 Email: vivek@midaastouch.in
AUTOMATION EXPO - MUMBAI	August 11- 14, 2025 Bombay Exhibition Centre (BEC) NESCO Mumbai	IED Communications Ltd, Mumbai Tel: 022-22079567 Email: jyothi@iedcommunications.com
7TH IMS 2025 INDIA MANUFACTURING SHOW	November 06-08, 2025 BIEC, Bangalore	India Exposition Mart Ltd Mobile: 09743784166 Email: exhibition21@indiaexpocentre.com
INTERNATIONAL		
LASER WORLD OF PHOTONICS - CHINA	March 11-13, 2025 Shanghai New International Expo Center - SNIIEC, Shanghai, China	Messe München GmbH 81823 Munich, Germany Tel: +49 (0)89 94920720 Email: info@messe-muenchen.de
AUTO MAINTENANCE AND REPAIR EXPO (AMR) - BEIJING	March 31- 02 April, 2025 Beijing Exhibition Center Beijing, China	Messe Frankfurt (HK) Ltd. Hong Kong, China Email: info@hongkong.messefrankfurt.com
PCIM EXPO - NUREMBERG	May – 06-08, 2025 Messe Nürnberg, Germany	Mesago Messe Frankfurt GmbH Germany Tel: +49 (0)711 619460 Fax: +49 (0)711 6194691 Email: info@mesago.com
POWER 2 DRIVE - EUROPE MUNICH	May – 07-09, 2025 Messe München, Germany	Solar Promotion GmbH Germany Tel: +49 (0)7231 585980 Fax: +49 (0)7231 5859828 Email: info@solarpromotion.com

A

10 th India Machine Tool Show – (15-18 May 2025, Yashobhoomi Convention Centre, Dwarka, New Delhi)	69
17 th Engimach - India's#1 Technology Showcase (03-07, December 2025, Gandhi Nagar, Gujarat)	86
Acsr conductor and cable.....	67
Adhesive grippers - adheso	94
Aero components.....	49
Aero systems	49
Aerospace blind bolts	49
Aerospace components.....	49
Alloys steel.....	27
AMF panels	68
Auto reclose relay with fast reset - JRV 142.....	93
Automatic paver block making machine	101
Automatic transfer switches.....	67
Automatic Vehicle Restraint	13

B

Ball bearing extractor.....	17
Ball bearing	17
Bar cutter machine	102
Based panels	67
Batching plant.....	102
Battery pallet truck	51
Bearing fitting tool kits.....	17
Bearing mounting heater	17
Bearings	9
Belleville washers.....	Cover III
Bulker cement unloading systems.....	102

C

Cable drag chains.....	96
Cable reeling drum	29
Carbon spring washers.....	27
Carbon steel	27
Cast polyurethane	15
Cast/extruded nylon	15

Castors for air cargo handling	23
Castors for automobile.....	23
Castors for electronics.....	23
Castors for hospitals.....	23
Castors for hotels & resorts	23
Castors for luggage	23
Castors for refrigeration	23
Castors for textile	23
Chain pulley block.....	7
Chain sprocket & trailing wheel	99
Chain.....	9
Chemical Process Equipment	53
Chemical pumps.....	15
Circuit breaker	67
Cold finished seamless straight Tube/ Pipes & “U” Tubes.....	27
Cold storage RT	51
Compound ball splines.....	94
Cone crusher.....	102
Construction cone crusher	101
Construction Electric Hoists (Modular)	53
Couplings	17
Crab/end carriages.....	7
Crane – Single/Double Girder, Jib, Under Slung, Goliath	7
Crane – single/double girder, jib, under slung, goliath.....	7
Crane kit.....	7
Cranes (EOD, Goliath, Flameproof)	53
Crankshafts	100
Cylinder block honing machines	11
Cylinder block surfacing machines.....	11
Cylinder boring machines	11

D

D Type Dock Bumper	13
DC brake	29
DC contactor.....	29
Deep hole grinding spindles	99
Defence electronics.....	49

Defence vehicle parts	49
Diesel forklift	51
Dock Doors	3
Dock Levelers	3
Dock leveller	59
Dock Shelters	3
Double deep racking	58
Double girder crane.....	7
Double toggle jaw crusher.....	101
Dry type transformers	67
DSL systems	7

E

Electric chain hoist	7
Electric forklift.....	51
Electric Wire Rope Hoists	53
Electrical panels.....	68
Electromagnetic clutches	29
Electromechanical limit switches	5
Elevator chain.....	99
End machining centre.....	93
Engine building machines	11
EOT Cranes	7, 53
EOT cranes	7
Extension springs.....	Cover III

F

Files	94
Fixed Bollards	13
Flame Proof Cranes	53
Flame proof hoists.....	7
Flame proof switches	5
Flameproof crane control gears.....	29
Flat springs	Cover III
Flexible shaft.....	100
Floor crane.....	58
Flow meters.....	25
Flow meters/switches	25
Flow switches	25
FLP motors	29

Food/Pharma Equipment	53
Frequency inverter - sj200 series.....	97
Front Gate Fold	5
FRP position switches	5

G

Gantry cranes	7
Gantry/goliath cranes	58
Geared electric motors.....	93
Geared trolley.....	59
Gears	9
General purpose limit switches	5
Generators.....	68
Goliath Cranes	7, 53
Goods lift	7
Grab Buckets	53
Grinding.....	Cover IV

H

Hand pallet truck.....	59
Heat indicators.....	25
Heavy & extra heavy duty castors	23
Heavy duty land levellers.....	101
High density polyethylene	15
High Speed Doors	3
High-performance electric two-wheel powertrain ..	93
Hoist, flexible	7
Hoists	53
Hose Clamps	25
Hose reeling drum	29
Hoses.....	19
HOT cranes	7
Hydraulic hopper concrete mixer	101
Hydraulic Vehicle Restraint	13

I

Indef powered crane kit.....	59
Industrial belt conveyor.....	58
Industrial Couplings.....	17

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Industrial eyelink belts.....	99
Industrial stethoscope	17
Industrial valves.....	25

J

Jamshedji soil compactor	101
Jaw crushers	102
Jib crane	7, 59

K

Kusam-Meco partial discharge acoustic imager - Model - KM-PDAI.....	96
--	----

L

LED aviation obstruction light.....	49
Level gauges.....	25
Level indicators	25
Level switches.....	25
Level transmitters	25
Limit Switches	5
Loading Bays - Dock Levelers	3
Loss of head indicators.....	25

M

Machine accessories	Cover IV
Machine Tools	53
Magnetic pumps.....	15
Man UP VNA	51
Manual Vehicle Restraints	13
Master controller	29
Material handing medium heavy duty castors.....	23
Material handling equipment.....	7, 53
Mechanical power transmission products	9
Metal expansion joints	99
Metal working machines	Cover IV
Meters - multi-function	68
Milling.....	Cover IV
Mono roll trolley	7
Motors.....	Cover II
Multi tier storage rack	58

O

Open channel flow totalizers	25
Order picker	51

P

Plant SMSR gearbox	99
Plastic cable drag chain	29
Plastic composite springs	Cover III
Poly Ether Ether Keton	15
Poly propylene	15
Polyacetal.....	15
Polycarbonate.....	15
Power & Hand Tools	53
Power belts	19
Power hydraulic machine vice	97
Precision switches	5
Premium anilox roller.....	99
Proportional rotary solenoids	94
PTFE	15
Pumps	15

Q

Quality cutter-crushers	101
Quality torque limiters.....	100
Quick release couplers	97

R

Rail clamp	29
Rail mounted gantry cranes (RMGC).....	59
Rail systems.....	100
Reach truck	51
Repairing of time makes digital portable metal hardness tester.....	95
Riveting hammer	102
Rock drill	101
Rolling Shutters	3
Rotary sand screening.....	58
Rubber Bumper	13

S

S S wire rope sling	100
Safety Fence	13
Safety switches	5
Scaffolding planks	102
Scissors lift	7
Sealless magnetic drive chemical pumps.....	15
Sealless magnetic drive chemical	15
Seat & guide machines	11
Sectional Overhead Doors.....	3
Servo stabilizer.....	67
Servo type drilling/tapping spindle head unit	98
Shaft & axle measuring machines	97
Shock absorber.....	100
Shunt limit switch	29
Single drum roller	102
Single girder crane crab	7
Single girder eot cranes	58
Single pole, nondirectional, IDMT O/C or E/F relay-JRC 051P/JRC 051 principle of operation	96
SIPL 6 smart breathalyser with memory & datalogging	95
Special combi-size spring washers	27
Speed reducer	100
Spinning can castors	23
Spinning trolley light duty castors	23
Spring washer machine	27
Spring washer	98
Stacker conveyor	59
Stahlwille tools.....	49
Stainless steel spring.....	27
Stainless steel	27
Steaming trolley castors.....	23
Steel cable drag chain	29
Surface grinding machine (manual)	98
Surfacing machines	11

T

Thrustor brake	29
Timing belts.....	100
Tool discs & holders	Cover IV
Torsion springs.....	Cover III
Traffic Light	13
Transfer trolleys.....	7
Transformers -electrical	67
Transformers with built in htavr.....	67
Transformers	68
Transmission chain coupling	99
Turning	Cover IV

U

UHMW -PE	15
Under slung cranes	7

V

Valve grinding machines	11
Valves.....	25
Vibrating screen	58
Vibratory furnace charger	96

W

Washers	27
Water rodent terminate	68
Wave springs	Cover III
Weather proof switches	5
Wheel Block	13
Wheel Choke	13
Win cab screen cables.....	68
Winches	53
Winding wires.....	68
Wire forms	Cover III
Wire harness	98
Wire rope electric hoist	59
Wire rope hoists.....	7
Wires	Cover II

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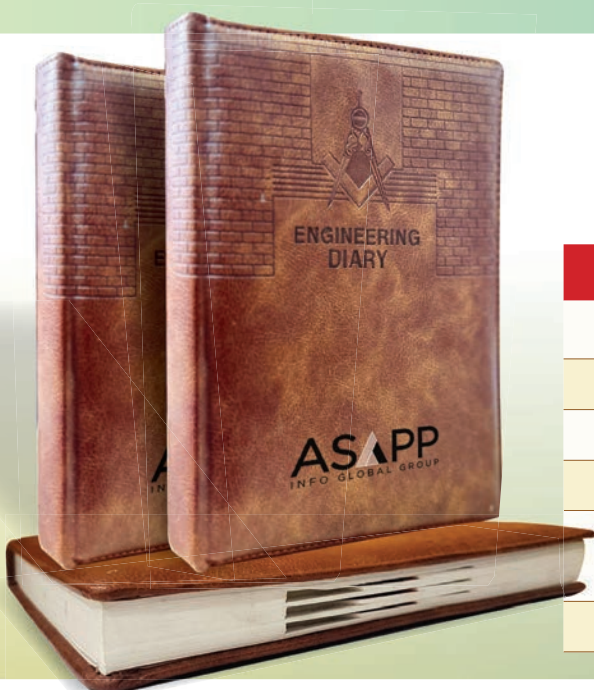


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DRDO



Indian Army has signed contract for procurements of 223 units of Automatic Chemical Agent Detection & Alarm (ACADA) System developed by DRDE, DRDO Gwalior lab with M/s L&T Ltd (a DRDO's TOT holder and production agency for ACADA) #AtmanirbharBharat



Ministry of Electronics & IT



First Made in India Chip - Arriving 2025!

5 Semiconductor Units rising together

India's Tech Boom is **Just Getting Started!**



India's semiconductor revolution is here! With 5 units under construction, the first 'Made in India' chip will be a reality by 2025, boosting self-reliance and global competitiveness in chip manufacturing. #SemiconIndia #AatmanirbharBharat #DigitalIndia



Godrej Enterprises Group

Pankaj Abhyankar, EVP & Business Head - Tooling business of Godrej Enterprises Group (GEG) and Bruno Bisiach, President - Bisiach & Carrù (B&C).

The Tooling Business of Godrej & Boyce, part of the Godrej Enterprises Group (GEG), has signed an MoU with Italian automation leader Bisiach & Carrù (B&C) to manufacture advanced railway and aerospace equipment in India. This collaboration strengthens India's manufacturing capabilities, aligns with the Make in India vision, and paves the way for increased local production.

Stay tuned as we drive innovation and self-reliance in these key sectors!

#Godrej #MakeInIndia #ManufacturingExcellence #Aerospace #Railways



Ministry of MSME



ASPIRE, sets up a network of Livelihood Business Incubators, predominantly in the rural and underserved areas, to promote innovation and accelerate entrepreneurship. #MSME #MSMEs #entrepreneur #technology #Institutions #entrepreneurship #entrepreneurs #industries #development #empowerment



Bharat Forge Ltd



Kalyani Strategic Systems Ltd. (KSSSL) a 100% subsidiary of Bharat Forge Ltd., India, has signed a Letter of Intent (LOI) with AM General, USA, at IDEX Abu Dhabi 2025 for the supply of Made-in-India advanced artillery cannons to the United States - a historic first for an Indian defense manufacturer! Speaking at IDEX 2025, Mr. Baba Kalyani, Chairman & Managing Director, Bharat Forge Ltd., stated: "The supply of Made-in-India critical defense systems to the U.S. is a game-changer! This achievement underscores our world-class capabilities and reinforces our vision to be a global leader in artillery solutions."

#WeAreBharatForge #IDEX2025 #DefenceInnovation #MadeInIndia



NTPC Limited



NTPC along with its subsidiary NGEL inked MoUs with the Govt. of Madhya Pradesh during the Global Investors Summit in Bhopal in the presence of Dr. Mohan Yadav, Hon'ble Chief Minister of MP and Shri Gurdeep Singh, CMD along with other senior officials of Govt of MP & NTPC.

- The first MoU was signed between NGEL and MPPGCL for setting up Renewable Energy projects up to 20 GW with an investment of Rs 1,20,000 Crores.
- The second MoU was signed between NTPC Ltd. & Govt. of MP for other sustainable non-fossil fuel power plants with an investment of Rs 80,000 Crores.
- An agreement was also signed between Govt. of MP & NTPC, pertaining to an intent to invest Rs 4,000 Crores in setting up 800 MW of Pumped Hydro Storage Project.



Adani Group

The Adani Group is strengthening its commitment to Madhya Pradesh's transformation with Rs 2.1 lakh crore investment. With Rs 50,000 crore already invested and 25,000+ jobs created, we're now driving the future with:

- Rs 1.1 lakh crore in new investments across energy, cement, mining and more



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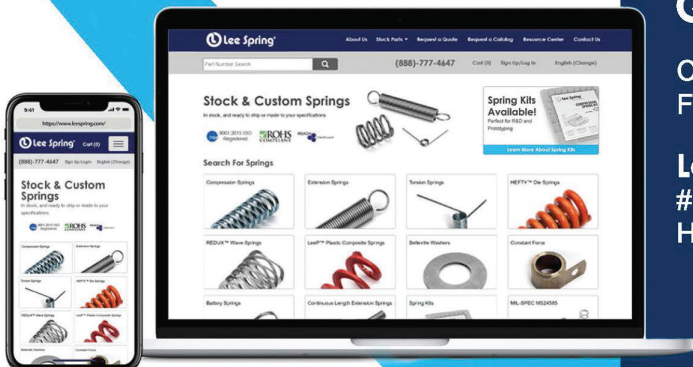
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ALLOY WHEEL TURNING



FEATURES & SPECIFICATIONS

CAPACITY

Swing over bed	Ø750 mm
Swing over carriage	Ø600 mm
Max. turning diameter*	Ø630 mm
Max. turning length#	350 mm

HEADSTOCK



- Cartridge type spindle design for easy serviceability
- High power AC spindle motor

Spindle nose	A2-8
Max spindle speed	3000 rpm
Spindle motor power	30 kW (cont.) 37 kW (30mins.)

* With appropriate workholding

Request machining range diagram

HORIZONTAL CNC LATHE **WLH 22**

AXES

- Hardened & ground box type guideways
 - High wear resistance
 - Easy maintenance
- Electro magnetic failsafe brake for X-axis

TOOLING

- Servo turret delivers quick indexing
- Large size tool disc with large interference free zones

Max. no of tools	12
Max. boring bar diameter	Ø50 mm
OD turning tool size	25x25 mm

