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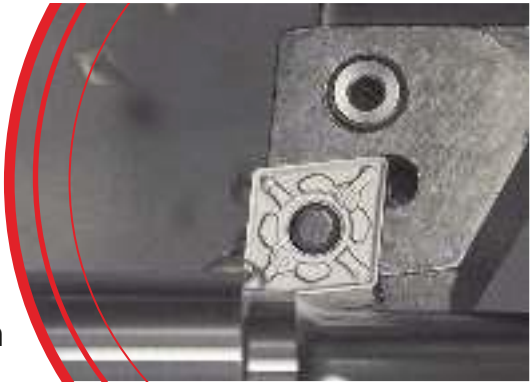




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CNC MACHINE TOOLS

# Ensuring Utmost Customer Satisfaction

Lakshmi Machine Works Ltd (LMW) has always been ahead of the curve. With its relentless focus on the market's ever-changing needs, the company has been keeping tabs on industry trends and emerging technologies to ensure it exceeds the expectations of its valued customers and expands its client base. Here's knowing what the Machine Tool Division, one of its strong arms, has to offer at IMTEX 2023 from its comprehensive range of offerings that has been garnering rave reviews in the industry.



Lakshmi Machine Works Ltd  
[www.lmwncnc.com](http://www.lmwncnc.com)  
Hall& Stall: 5/B-107

Lakshmi Machine Works Ltd or LMW, as it is so famously called does not need any introduction in the industry. Being the pioneer in the field, it is rightly one of the oldest participants in IMTEX. "We have been participating in the event for three decades. This edition is more special as it is taking place after four years," notes K Sreerama-chandra Murthy, President, Operations, Machine Tool Division, Lakshmi Machine Works Ltd.

To be continued on 4 ▶

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Source: Magic Wand Media



» We have a great scope for market expansions as the Indian machine tool market is expected to grow significantly in 2024. Segments like Die & Mould, Medical Devices, Agricultural Machinery & Equipment, Aerospace, Automobile, and Electronics will be growing in the upcoming financial year.«

**K Sreeramachandra Murthy**  
President, Operations  
Machine Tool Division  
Lakshmi Machine Works Ltd

The company's success can be gauged by the fact that it keeps up with the market's changing needs. "We focus on major demanding factors in the market including Accuracy, Long-lasting repeatability, Reliability, Reduction in cycle time, Low cost per component, and High productivity.

To sum it up, precision, performance, and productivity are prerequisites for prosperity, and LMW believes in delivering prosperity to our customers through our products and solutions," he enthuses.

### For a range of industries

LMW's Machine Tool Division's enormity can be determined from its built-up area spread over sprawling eight acres in Coimbatore. The company caters to different industries like Automobile, Aerospace, Die & Mould, Defence, Pumps & Valves, Oil & Gas, Medical Equipment, General Engineering, etc.

"The Auto segment is our major customer. In other segments like Die & Mould, General Engineering, and Medical, we have a strong customer base," shares Murthy. "Our innovation is focused on the market requirements. The machines must be easily customizable for different industry needs. We have introduced products that are highly compact, cost-effective, and high-speed which will address the needs of small component manufacturers where volumes are very high like the Bearing industry," he adds. According to him, LMW's Machine Tool Division has a considerable market share in the domestic market and the company has been growing continuously in the last 3-4 years.

### LMW's unique products at IMTEX

The company is showcasing its recent innovative product JG50, a high-speed compact Vertical Machining Center. This machine is poised to meet the high volume and high accuracy requirements of the modern industry. It has been tested for components with stringent quality parameters and can meet high-volume production. "The machine has very high acceleration of greater than 1G and spindle speeds of up to 16,000 rpm. The tool change takes only 1 second and saves enormous time. Saving time means that ideal movements or non-cutting time is reduced to the bare minimum by way of incre-



Source: LMW

ased speeds and accelerations, thereby increasing productivity substantially. The machine is also ultra-compact which saves shop floor space," informs Murthy. He highlights some unique features of the company's machining centers in general, "The machines are rigid and known for their high accuracy and longevity. We have a very high repeat business, which is a testimony to their quality. In addition, we also have a custom screen for every operation."

LMW has launched a total of 6 new machines and 4 with enhancements at IMTEX. Its new launch machines include:

- **2 Turning Centers – S Turn 1 and Gigaturn 1**
- **2 in Vertical Machining Centers – J6 R and J8**
- **1 High-Speed Drill Tap Center – JD 1**
- **1 Horizontal Machining Center – JH500**

### LMW truly cares

As much for its products, the company is also renowned for its world-class customer support that attends to customers through both on-site and remote means. Murthy tells us more about it. "We have established a pan-India network of sales and services that caters to every industrial city in India. We are the first Indian machine tool manufacturer to have introduced a customer portal for online sales of spare parts (e-commerce) and mobile apps for customer connect. The entire service operation is digital or simply paperless. We have a special application called 'LMW Care' for the best customer support. In the last three years, LMW has significantly focused on digitalization," he shares.

### Going forward

"The 'Aatma Nirbhar program' and the 'PLI scheme' have enhanced the Indian growth story. We are seeing a very positive approach and results. In the present world economic scenario, this is definitely an advantage for India," he remarks, concluding on a high note.

SD

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**RBSM**

# RBSM Kicks Off On a High Note

To provide a platform for Indian machine tool manufacturers to interact with international buyers, IMTMA has organized the Reverse Buyer Seller Meet (RBSM) at IMTEX 2023 & Tooltech 2023 and Digital Manufacturing 2023. Highlights of yesterday's inaugural session.



Source: Magic Wand Media

Under the aegis of the Ministry of Commerce and Industry, Government of India, IMTMA, in collaboration with Engineering Export Promotion Council (EEPC) of India, has organized the International Buyer Seller Meet 2023, inviting potential buyers of machine tools from target overseas markets to explore mutual business opportunities with Indian

machine tool and accessories manufacturers. The event, inaugurated yesterday, will continue until today. Thirty-seven representatives from 17 countries have come to attend the event that was inaugurated by MG Srinivas, Executive Director, IMTMA; TK Ramesh, Chairman, IMTMA, Export Development Cell; Gurvinder Singh, Director, Trade Promotions, EEPC India; and Jibak

Dasgupta, Director General & CEO, IMTMA, in the presence of international buyers and representatives from Indian machine tool manufacturing companies.

## On Indian machine tools

Ramesh, in his welcome speech, said, "According to a recent Gartner survey report, now globally India is at the 11<sup>th</sup> position in machine tools production and 8<sup>th</sup> position of their consumption. So, we are progressing fast in this field. Our machines fit well to serve the requirements as per the international standards. Thus, it is a big opportunity for international buyers to experience Indian machines, interact with their manufacturers, and firm up their buying decisions." Highlighting the international quality of the Indian machine tools, Singh,

said, "Seventy-five percent of the Indian machine tools are ISO certified. In 2022, we exported machine tools worth \$680 million. With regulatory changes coming around the globe, it is only 'quality' that will ease the process of exporting our country-built machine tools. EEPC has been trying to explore more areas for Indian machine tools manufacturers." Dasgupta said, "IMTEX offers buyers a significant opportunity to witness the machines offered by the Indian companies, and through direct interaction with the manufacturers they will be able to get answers to all their specific questions." Representatives from some of the Indian machine tools manufacturing companies, including Ace Micromatic Group, Bilz India, ETA, Grind Master, Khushbu Honing, Sphoorti Machine Tools etc. also took the dais to briefly introduce their companies and products during the inaugural session. **SD**



Source: Magic Wand Media

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## AUTOMATED CUTTING SOLUTIONS

### Composite Cutters from Chennai Metco

Chennai Metco has designed and produced Automated Cutting Solutions for challenging composites with precision and proven reliability. The company offers a convenient precision composite sectioning machine for easy and effective sample extraction. It is intuitive to operate with a user-friendly touchscreen with optional preset programs. The machine offers a seamless cutting wheel with a variable

speed of up to 2880 rpm for the customers to choose from, depending on the parameters suitable for their cutting application. The machine is fully automated with 3-axis automation and proven software. The manual override offers convenience when the situation demands it. The automatic feeder gives gentle jerk-free gliding required for sensitive composites. Intelligent feed controls the feed rate adjusting, depending on the cutting resistance while sectioning. The machine comes with a quick and effective sample-holding clamping system. The Laser Line Marking system aligns visually to ensure the cutting happens in the pre-determined plane. Wet and Dry cutting both are possible so that the choice can be made depending on the sensitivity of the composite. The company also offers all necessary consumables like Diamond blades and Coolant oils for cutting composites with full backing for servicing the machines. **SD**



**Chennai Metco Pvt Ltd**  
www.chennai-metco.com  
Hall & Stall: 1A/A-101

Source: Chennai Metco Pvt Ltd

## DELEGATE SPEAK

### “The technological advancements show where India is headed”

It has been a great experience attending this show so far. The stalls that I have visited are mainly the leading machine tool manufacturers such as Mazak, DMG Mori, and Lakshmi Machine Tools. The advancements in machines are mind-blowing. Every machine manufacturer is bringing new technology including 5-axis technology and Industry 4.0. At the Fanuc stall, it was interesting to witness robots and cobots and how they are integrated and working together. So integrated manufacturing, digital twin, the large-5-axis machines, NC controls that can be operated from remote distances, all these technologies along with advancements in the tooling and the measurement technologies that we see in the machining field today are all on display. We came across various new-generation measurement technologies like cameras and 3D scanning. This shows where India is headed. For India to be a \$5 trillion economy, it is clear that we need to have machine tool manufacturers



Vivek Joshi, President & CEO, Sundaram - Clayton Ltd

Source: Magic Wand Media

who make precision tools, and they are here today at the show. I am happy to be part of this event. The enthusiasm among the visitors is high. Most of them are coming in groups. I have met people from North East, Pune region, Gujarat, Chennai, Bangalore, etc. They are excited to explore new technologies and willing to buy and try them. After a long time, there is a kind of community networking. I even saw several competitors working together. Overall, it has been great to come, meet our industry peers, and explore such innovations. **SD**

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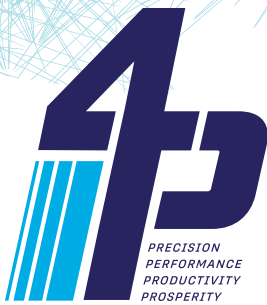
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Hall : **5** Stall No. : **B 107**



**Highlights:**

**JD1**

Table size: 650 x 400 mm  
Stroke (x,y,z) : 500 x 400 x 320 mm  
24000 rpm spindle speed  
21 tools Automatic Tool Changer  
Tool changing time - 1.2 sec  
Tool shank - BBT 30

**JG50**

Table size: 600 x 400 mm  
Stroke (x,y,z) : 500 x 400 x 400 mm  
16000 rpm spindle speed  
26 tools Automatic Tool Changer  
Tool changing time - 1 sec

TURNING MILLING TURNMILL



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**INDUSTRIAL METROLOGY**

# Measures Matter

**Carl Zeiss India has launched a few highly technologically advanced products at IMTEX 2023 including a range of microscopes and optical machines.**



Source: Magic Wand Media

“More than products, at IMTEX 2023 & Tooltech 2023 and Digital Manufacturing 2023, we have launched solutions for new products that are coming in the market now,” informs Aveen Padmaprabha, Business Head, Industry Quality Solutions, Carl Zeiss India (Bangalore) Pvt Ltd. The company has come up with solutions for Li-ion battery manu-

facturing (from individual component to end product), which is currently in peak demand in the Indian market. It is also showing solutions for other industries including Electronics, Windmill, Additive Manufacturing, Medical Devices (implants) etc. In today's industrial world, every high-end product has to pass through different metrological tests and inspections, that's where Carl Zeiss' products come into the picture.

Taking into account the needs like dimensional accuracy measurement, porosity measurement, and crack detection, Carl Zeiss India is a one-stop solution provider. All its high-end technologies are developed in Germany. Considering the economics of volume versus cost, the company imports from Germany and sells some machines in India. However, it also maintains local manufacturing of products (in demand) to offer a competitive cost advantage to local buyers (in India). Moreover, to assist the Indian manufacturers, it maintains five quality excellence centers here, where the company invites manufacturers to use its metrological services. At this moment, the Indian electrical industry is also reshaping itself, where to introduce new applications for green power generation, the need for various kinds of measurements will arise, “Carl Zeiss is ready to assist Indian manufacturers in a

way in this process,” informs Roger Bayer, Zeiss Industrial Quality Solutions. He also points out that the globally connected solution development team of Zeiss has the capability to address challenges in the best, fastest, and most economic way. Manoj Sundaram, Business Development Head, Carl Zeiss India, says, “We are here to demonstrate and disseminate our new solutions for the emerging areas of manufacturing like Battery, Aerospace, (Green) Power and Energy.”

## Showcasing Zeiss' strengths

ZEISS SmartPI (Smart Particle Investigator) is an advanced particle analysis and classification solution that turns scanning electron microscopes into turnkey solutions for industrial cleanliness or metal and steel applications. ZEISS O-DETECT is an optical measuring machine that offers intuitive operation, high-quality imaging, and flexible lighting for precise measurements in an instant. ZEISS CONTURA enables one to be prepared today for the measurement requirements of tomorrow. **SD**

**Carl Zeiss India (Bangalore) Pvt Ltd**  
[www.zeiss.com/metrology](http://www.zeiss.com/metrology)  
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Hall & Stall: 2B/A-101

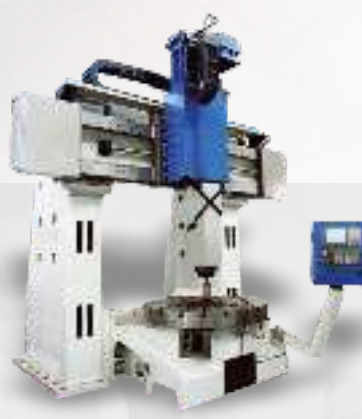


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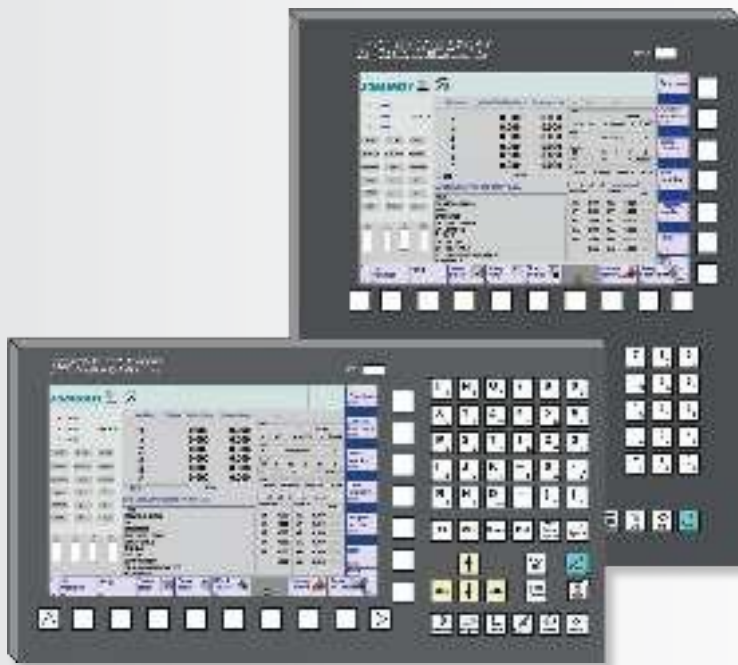
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**Hall 5, BOOTH B111**

**MANUFACTURING SOFTWARE**

# Leveraging the Right Time

Mastercam wants to make the best of its presence at the event by running some splendid offers and holding live demos of its offerings at its booth with its machine tool partners.



Source: Magic Wand Media

Vineet Seth, Managing Director, Mastercam India, attests to the fact that this edition of IMTEX is extremely crucial for the industry. "It is indeed important for all of us—exhibitors as well as visitors—for in-person collaborations, associations, and demonstrations," says Vineet Seth, Managing Director, Mastercam India.

## Specialists on board

"We have 18 specialists from our broader sales and application team manning our booth across the seven show days," states Seth. "With experts in Multiaxis and Multi-tasking machining, to post-processor development, our staff is geared to answer queries and assist with choosing the right CAM software and strategies for manufacturing requirements," he informs.

The company is also unveiling a complex 5 Axis machining part along with its technology partner Phillips Machine Tools India, on their Hermle 5 Axis machine.

## Features and more

The company is demonstrating live the newest features released in Version 2023. "Similarly, we are also conducting a curtain-raiser on a few of our upcoming cool features in version 2024," shares Seth. The Mastercam range includes 2.5 to Multiaxis Milling, Turning and Turn Milling, Mill-Turn, WireEDM and Modeling for manufacturing. "Certain special add-on modules like Blade Expert and Port Expert are also available for demonstration at our booth," he adds. "The use of Dynamic Motion™ Technology for efficient roughing and accelerated finishing is also on display."



Source: Mastercam India

» IMTEX 2023 provides the right place and time, and companies exhibiting get their right people talking about and demonstrating the right solutions to the right people who visit the show with an intent to conduct business or learn about newer technologies. «

**Vineet Seth**  
Managing Director  
Mastercam India

**Mastercam India**  
www.mastercam.com  
Hall & Stall: 4/C-122

Mastercam 2024 is set to be released in June 2023, and to that end, the firm is revealing several outstanding and forthcoming features, which are currently available to beta users worldwide. **SD**

**MILLING CUTTERS**

# Exploring Opportunities

One of the top five companies in the world in the manufacture and sale of milling cutters is here to know the Indian market.

Thilo Müller, Product Manager Milling & Holmaking EMEA, YG-1 Deutschland GmbH, has come from Europe from the EMEA market to IMTEX 2023.

"It's an interesting trade show. We have had some high-quality visitors, and thanks to the event, we could meet them and have meaningful discussions. India is moving into top-notch production of Automotive, Aerospace, and

**YG Cutting Tools Corporation Pvt Ltd**  
www.yg1.kr  
Hall & Stall: 3A/A-116

Aerospace display is dominated by CFRP materials as well as honeycomb. So, we are conquering the Aerospace market on two sides here – metallic as well as non-metallic. We even have a global representative, an industry manager, focusing only on CFRP. Aerospace in India is one of our core focus products besides Automotive, Energy, and General Machining," he adds. The company had one plant in India since 2016. "Just this week, we inaugurated a second and a third one, with a triple manufacturing space, not only for India but also for export. Drills X, trills tabs, and mills, as well as custom solution tools, are coming here to Bangalore," he adds. **SD**



Source: Magic Wand Media

» India is moving into top-notch production of Automotive, Aerospace, and Electronics parts. It's a great place to understand the Indian market and its requirements. «

**Thilo Müller**  
Product Manager Milling & Holmaking EMEA  
YG-1 Deutschland GmbH

Electronics parts. It's a great place to understand the Indian market and its requirements," he states.

## Aerospace is focus

"In Aerospace, we are concentrating on the normal metallic bug pieces like titanium, aluminum, and also PH stainless steel. But also the other side of the

**VISITOR SPEAK**

# "Looking for automation solutions"



Source: Magic Wand Media

Varkey Varughese (first from left), Director, Midas Rubber Pvt Ltd

We are manufacturers of precured treads used in the tyre industry. We have come to IMTEX looking for solutions to automate our process. We need to understand how can we incorporate automation in our operations to improve output in our factory. We are still exploring the options available and looking around for something that can perfectly suit our requirements. **SD**



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**CASE STUDY**

# In Search of a Safe Coolant



Source: Blaser Swisslube Solutions Pvt Ltd

» JTEKT India is convinced that the holistic approach of Blaser and its investment in the Liquid Tool solution was the right decision. They are excited to explore more in other areas of manufacturing.«

**Jaydeep Kumar**  
Plant Head  
JTEKT India Ltd

## Advantage Blasomill HD 15

Blasomill HD 15 is a non-water-miscible cutting fluid based on mineral oil. It is a high-performance chlorinated cutting oil for heavy-duty machining. The oil is suitable for milling, drilling, deep hole (gun) drilling, turning, automatic turning, threading, tapping, reaming, sawing, broaching, and slotting (with low cutting speeds). Suitable for steel, stainless, acid- and heat-resisting steel, and titanium as well as for aluminum and copper alloys. With medium chlorine content, it provides good wearing protection for tools and a reliable machining operation. The project was set up by Manoj Verma and Sandeep Bhat and initiated with the objective of process security and improved cost-per-component. The focus was on the existing situation at the broaching application. Both teams were closely monitoring the test. The results were overwhelming. The tool costs have been reduced with an improvement in broach life by 17 percent. Thanks to the high performance and reliability of Blasomill HD 15, it was possible to achieve annual savings on the tool cost of ₹14 lakh million on one broaching machine. Broach life was also increased from 3000 to 3500 components. JTEKT India is convinced that the holistic approach of Blaser and its investment in the Liquid Tool solution was the right decision. They are excited to explore more in other areas of manufacturing. **SD**

JTEKT India Ltd (formerly known as Sona Koyo Steering Systems) is a part of JTEKT Corporation Japan and operates as part of JTEKT Group India. With activities focused on four major product technologies: bearings, steering

systems, drive-line components, and machine tools, JTEKT aims at meeting the high expectations of its customers and winning the trust of society. JTEKT's ambition is to be among the world's top 10 automotive parts suppliers in all four product categories and is presently the leading steering systems manufacturer in Japan and No 2 globally. In one of the meetings at a machine tool builder exhibition, the Blaser specialist was explaining the Liquid Tool approach. He presented a unique value proposition to increase productivity and profitability. Since JTKET was facing challenges in its production process, it shared its applications with the Blaser team. Then it was agreed to explore the possibility of starting a project. JTEKT was looking for process security, minimum tool failure, as well as improved tool life for its broaching application.

**Company Name:** JTEKT India Ltd

**Award Category:** Total Costs of Ownership

**Industry:** Automotive supplier

**Production:** Steering gears, columns, RPS assemblies, axle assemblies

**Application:** Broaching

**Material:** Alloyed steel

**Objective:** Total cost of ownership  
JTKET was facing challenges in its production process to increase productivity and profitability.

**Solution:** Blasomill HD 15  
The high performance and reliability of Blasomill HD 15 led the company to achieve annual savings on the tool cost of ₹1.4 million on one broaching machine. Broach life was also increased from 3000 to 3500 components.

**Blaser Technical Consultant:** Sandeep Bhat



Source: Blaser Swisslube Solutions Pvt Ltd

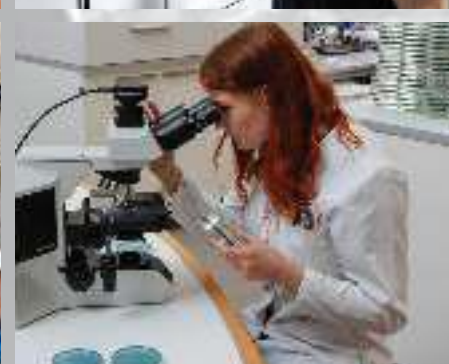
**Blaser Swisslube Solutions Pvt Ltd**  
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**MAKING INDIA PROUD**

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Hall & Stall: 2A/A-102

# Facilitating Progress

**Bharat Fritz Werner Group's purpose of enabling the progress of manufacturing has propelled it towards consistent growth since its founding. Learn the next chapter of its journey unfolding which is to take the company to newer heights.**



Source: Magic Wand Media

**A**s BFW celebrates its 60<sup>th</sup> year, it charts an aggressive technology roadmap to become a leading advanced manufacturing technology partner of a global scale with the intent of supporting Atmanirbhar Bharat and significantly expanding products and services globally.

Over the next 18 months, BFW is poised to scale up three-fold from the current annual capacity of 3,000 to 10,000 machines by setting up a new state-of-the-art facility on the outskirts of Hosur. The company has committed a substantial investment in three phases for a plant with 60,000 sq mt built-up area over a land of over 50 acre.

BFW's facilities will include a Net Carbon zero class assembly plant with a conveyorized assembly of machines, lean and green digitalized processes, a world-class Spindle Technology Center, with integrated automation engineered by its subsidiary m2nxt, and a fully integrated Sheet Metal Processing plant. This is touted to be the first-of-its-kind infrastructure of such a scale in the APAC region. The first phase of the new plant will be operationalized by Q1 FY 24, the second phase by Q2 FY 24, and the last phase in FY 25.

## Innovative offerings

Keeping pace with the latest trends in digitalization in manufacturing, BFW has launched several innovative platforms of additive manufacturing in Laser DED and Electron Beam DED in addition to industrializing large format 3D metal printing by

partnering with innovative companies such as Meltio and Xbeam that are known for disruptive technologies. As part of the expansion program, BFW has collaborated with Adroitec India to propagate these solutions across India.

"We have a bigger purpose of enabling progress with a 360-degree approach. There are differentiators that we have planned to create in the facility to give back to society. This is a great chance for us to have more gender equality; we will have more girls to manufacture machine tools. The facility will be disabled-friendly. We will ensure to offer equal opportunities to people with disabilities. It's not about only making money, but it's making money along with the progress of the people working around it," said Ravi Raghavan, Managing Director, BFW.

**SD**

## INDIAN MANUFACTURING PROWESS - LAUNCHES

# Accurate Launches Shop Floor Machines



Source: Accurate Gauging and Instruments Pvt Ltd

**Accurate Gauging and Instruments Pvt Ltd**  
www.accurategauging.com  
Hall & Stall: 3A/A124

**F**or addressing the requirements of Industry 4.0 applications, Accurate Gauging and Instruments has launched a family of shop floor machines – Enduro and Atal at IMTEX 2023. "Four years ago, when the last IMTEX took place, Industry 4.0 was getting into the conceptualization and was introduced to customers in India," said Vikram Salunkhe, Managing Director, Accurate Gauging and Instruments Pvt Ltd. "These four years gave us time to design these products better, do pilot/beta testing, and create the mature solutions out here at the show."

Atal and Enduro are shop floor CMMs designed for use on the modern shop floor. Linear motion guides in all 3 axes ensure longer life. With OEE, Alerts, and SPC Display, the machines are Industry-4.0 ready. They feature Touch Trigger, Continuous Scanning, and 5 Axis Probing.

**SD**

## LEAK TEST EQUIPMENT

# Marposs Presents Polaris

**S**mart devices have become part of our everyday life. Nowadays, in order to guarantee normal operation during exposure to rain or even swimming, more models demand an elevated performance in the area of waterproofing. That's why it's important to perform a leak test during the manufacturing process of components, assemblies, and finished products. Thanks to the experience acquired over many years working with phone producers, Marposs has developed Polaris, a compact and flexible solution for the leak test of consumer electronic products. In order to guarantee the highest level of accuracy, Marposs Polaris can perform both single components and fully assembled products. Polaris integrates a modular design, customized fixtures, and Marposs Tecna's leak test sensor. Thanks to

this vertical integration, Polaris can satisfy every customer's needs. Polaris verifies part tightness by creating an air chamber at a requested nominal pressure around the possible leakage area and monitoring its variation during a set time.

**SD**



Source: Marposs India Pvt Ltd

**Marposs India Pvt Ltd**  
www.marposs.com  
Hall & Stall: 3A/B-101



TO THE FUTURE

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**VERTICAL MILLING & MILL-TURNING MACHINING CENTERS**

## Committed to Sustainable Manufacturing

Sustainable behavior is part of the CHIRON Group's DNA. It develops solutions that both conserve resources and increase productivity. This resolve to work towards a greener planet reflects in the products being showcased at the event.



Source: Magic Wand Media

“As IMTEX 2023 & Tooltech 2023 and Digital Manufacturing is taking place after a long time in physical form, it feels very good that we can meet our existing and prospective customers in person,” says Rajesh Ghashi, Managing Director, Chiron India Machine Tools Pvt Ltd.

### Understanding the impact

Tuttlingen-based CHIRON Group is committed to sustainability. “We have already achieved the major

first step. By the year's end, our production sites in Germany will be carbon neutral,” asserts Ghashi. “Since December 2022, we have been the first company in our industry to collaborate with the Science-Based Target Initiative (SBTi), demonstrating our commitment to sustainability.”

The SBTi is a joint initiative undertaken by CDP, United Nations Global Compact, World Resources Institute, and World Wide Fund for Nature (WWF) that sets emission

reduction targets for participating corporations and independently verifies their compliance. “This also reflects in our products that we manufacture, and we are displaying one such product during IMTEX 2023 that is committed to sustainable manufacturing,” he states.

### Celebrating precision

“Our high-speed, high-precision twin-spindle 5-Axis Vertical Machining Center DZ 08 P+ and the most talked-about the MICRO 5 machine for precision micro parts which has the smallest footprint and uses the power of just a coffee vending machine are the show's highlight,” shares Ghashi.

MICRO 5 is the new product which has been launched at the show. The company is having a live demonstration at its booth. Ghashi believes the MICRO 5 has led a minor revolution in the dynamic and highly accurate field of machining tiny medical equipment, delicate jewelry, and the most intricate watch parts for five years. The compact CHIRON Group SE's FACTORY5 5-axis machining center is also being demonstrated live, showcasing its quick set-up capability in the



Source: Magic Wand Media

» As IMTEX 2023 is taking place after a long time in its physical form, it feels very good that we can meet our existing and prospective customers in person.”

**Rajesh Ghashi**  
Managing Director  
Chiron India Machine Tools Pvt Ltd

**Chiron India Machine Tools Pvt Ltd**  
www.chiron-group.com  
Hall & Stall: 4/C-113

production hall or at the workstation. “The ‘5’ in the name stands for the ideal 5:1 ratio of machine size to the workpiece, for five times lower weight, and maximum efficiency,” he adds. “Energy consumption is 50 times lower in comparison to conventional systems.” **SD**

## i2 Industry Academia Pavilion @ IMTEX 2023 and Tooltech 2023

### PROGRAMME SCHEDULE : 24 JANUARY 2023, PARIJATHA HALL, BIEC

Timings	Sequence of events
1000 - 1015 hrs	Amrita Viswa Vidyapeetham, Kollam Project Title : Cost Effective Universal Form Tester
1015 - 1020 hrs	Change over
1020 - 1035 hrs	Bannari Amman Institute of Technology, Sathyamangalam Project Title : Design and Manufacturing of Wheel Knuckle for Electric Vehicle Using CNC Milling Machine
1035 - 1040 hrs	Change over
1040 - 1055 hrs	Chennai Institute of Technology, Chennai Project Title : TIG based Additive Manufacturing of FGM Wall
1055 - 1100 hrs	Change over
1100 - 1115 hrs	Indian Institute of Technology Madras Project Title : New Generation Multi-Point/Single Layer Superabrasive Tools
1115 - 1120 hrs	Change over
1120 - 1135 hrs	KLS Gogte Institute of Technology, Belgavi Project Title : Application Of Minimum Quantity Lubrication Cooling Technique For Aerospace Material Machining In An Industry
1135 - 1150 hrs	Break
1150 - 1205 hrs	NMAM Institute of Technology, Udupi Project Title : Design & Development Of Low-Cost 4-Axis CNC Machine For Art Work Machining
1205 - 1210 hrs	Change over
1210 - 1225 hrs	PSG College of Technology, Coimbatore Project Title : Alternate Material(s) For CNC Machine Tool Bed

Timings	Sequence of events
1225 - 1230 hrs	Change over
1230 - 1245 hrs	Sona College of Technology Project Title : Developing Superhydrophobic Surface using IOT Based System
1245 - 1250 hrs	Change over
1250 - 1305 hrs	T. S. Srinivasan Centre for Polytechnic College & Advance Training Project Title : Automatic Laser Engraving Machine
1305 - 1310 hrs	Change over
1310 - 1325 hrs	Vishwakarma Institute of Information Technology, Pune Project Title : Microcontroller Based Tool Condition Monitoring System During Hard Turning Of Aisi52100 Steel
1325 - 1530 hrs	Lunch
1530 - 1630 hrs	Awards Presentation Ceremony
1530 - 1535 hrs	Welcome Address, Mr.Ravi Raghavan, President, IMTMA
1535 - 1545 hrs	Address by Mr.Shivakumar, Chairman, Jury
1545 - 1555 hrs	Felicitation of Jury members
1555 - 1605 hrs	Awards presentation ceremony, compered by Mr.Jibak Dasgupta, DG & CEO, IMTMA
1605 - 1615 hrs	Address by 1st, 2nd and 3rd prize winners
1615 - 1625 hrs	Feedback by other contesting institutions
1625 - 1630 hrs	Vote of Thanks, Mr.Rajendra Rajamane, Vice President, IMTMA



**OPEN DIGITAL BUSINESS PLATFORM**

# The Future is Digital

Siemens Ltd is showcasing its offerings at IMTEX 2023, under the motto 'Accelerate digitalization for machine tool manufacturing'.



As part from being part of a much-needed physical show, Vijay Pratap Singh, Vice President, Country Business Head, Motion Control Business Unit, Siemens Ltd, says that the company's new innovative products and solutions had to be shown to its customers and partners, "So they can touch and feel the products," he adds.

## For the machine tool industry

Siemens has expanded its Xcelerator portfolio for the machine tool

industry to enable manufacturers and users of machine tools to design, realize and optimize machines and components faster, react flexibly to market demands, and enhance productivity across various user industries. These offerings are being showcased at IMTEX 2023, under the motto 'Accelerate digitalization for machine tool manufacturing'.

With SINUMERIK One, the latest offer from Siemens, the company offers the technology to easily crea-

te and work with digital twins of machine tools. With its integrated SIMATIC S7-1500F PLC, it offers up to 10 times faster PLC cycle times. This helps SINUMERIK One to be fully integrated into the TIA Portal engineering framework, enabling standardization of all engineering tasks for machine builders and users. Integrated functions like virtual commissioning and realistic process simulation open up new possibilities for machine manufacturers and users alike. This significantly reduces the product development phase, time-to-market and even production cycle times. Today, over 70 percent of Indian OEMs have already adopted SINUMERIK One to accelerate their digital transformation journey.

## Response received

"The response we have received in this edition of IMTEX has been more than satisfactory. The number



Source: Magic Wand Media

» India is progressing and one of the dimensions of this progress is increasing the percentage of manufacturing in GDP to 25 percent. To achieve that, we have to improve our machinery. Thus, we have come here to show how we can help manufacturers of the new era. «

**Vijay Pratap Singh**  
Vice President  
Country Business Head  
Motion Control Business Unit  
Siemens Ltd

of quality customers is also good. The queries that we received are from serious buyers. We would want IMTMA to continue arranging the event similarly in the future as well," he concludes. **SD**

## Measures 4 Times Faster



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**19 - 25 January 2023**

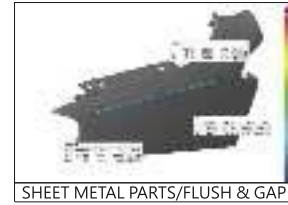
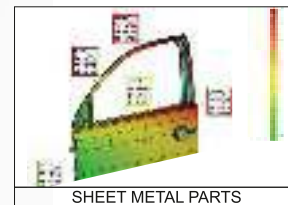
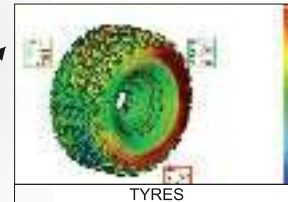
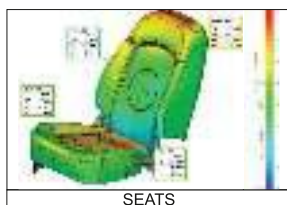
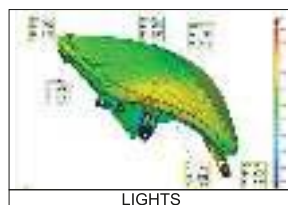
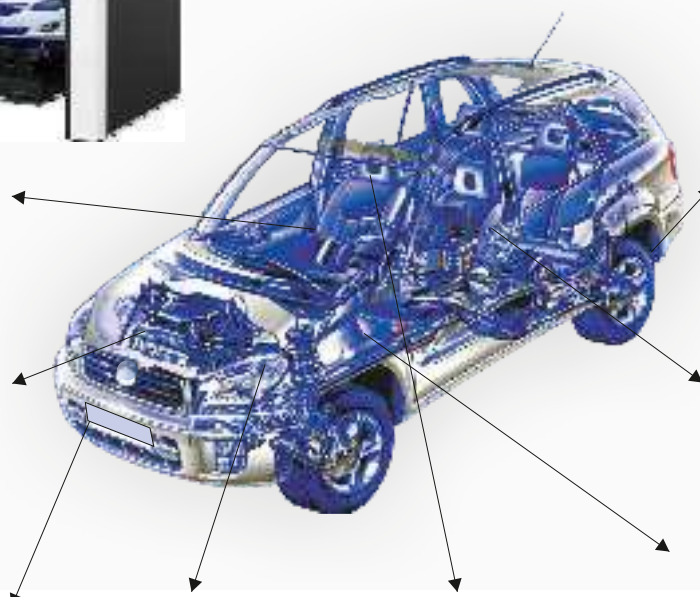
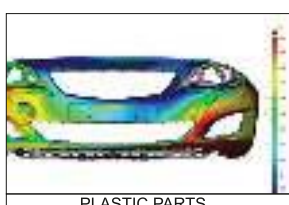
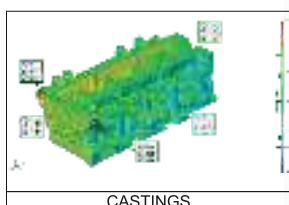
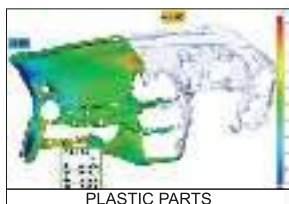
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**To book demo slot @ IMTEX 2023**



**APM Technologies 3D Pvt Ltd**  
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Website: www.apmtech.in  
Phone : 011-41631416, 41631454

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## HANDLING TECHNOLOGY PRODUCTS

# With a Firm Grip on Efficiency

Zimmer Automation has been a regular participant in IMTEX. This edition, the company is showcasing cobot and conventional robot systems, handling technologies, wireless communication modules, and especially EV industry gripping solutions.



Source: Magic Wand Media

“Over the years, the show has evolved and has grown sensitive to the buyers’ and sellers’ needs. IMTEX has created an ideal platform for us to showcase our new product offerings to the market,” says Hrishikesh Kulkarni, Chief Operating Officer, Zimmer Automation LLP (India). “IMTEX 2023 & Tooltech 2023 and Digital Manufacturing 2023 is all the more special as we are back with the Metal Cutting edition after a gap of 3 years due to the pandemic.”

## Leveraging the emerging EV industry

Emphasizing that the company can serve as a development and system partner to several major battery, module, and electric motor manufacturers, he stresses, “We have successfully partnered with automotive companies like Tesla, Porsche, BMW, Ford, and many more across the globe! We have displayed a gripping solution dedicated to the EV industry, which is bound to catch the imagination of the line builders.”

## On the spot

MATCH End-of-Arm Ecosystem, compatible with all lightweight collaborative robots and having a wide range of functions and universal communication interfaces, is on display. It’s ideal for cobots and conventional 6-axis robots. Also on display are handling technology products, including electrical and pneumatic grippers and swiveling units. “From the machine technology side, we are showcasing zero-point clamping solutions for gantries and robots,” he states. “We are also displaying our system solution grippers for the EV industry, tires, as well as the intralogistics segment, a delight for the system integrators.”

## New to the show

Series BCM and MCM wireless communication modules are on display. Kulkarni claims that this new solution will allow users to manage all Zimmer Group IO-Link grippers and MATCH IO-Link components, regardless of robot structure or system foundation. “No complex cable routing through the robot ensures that the systems work seamlessly. There is no source of error due to



Source: Magic Wand Media

“Over the years, IMTEX has evolved and has grown sensitive to the buyers’ and sellers’ needs. The show has created an ideal platform for us to showcase our new product offerings to the market.”

**Hrishikesh Kulkarni**  
Chief Operating Officer  
Zimmer Automation LLP

**Zimmer Automation LLP**  
www.zimmer-group.com  
Hall and Stall: 2B/B-110

moving data cable (mechanical obstacle, broken wire) as the wearing part is eliminated,” he further adds. “The product allows scalable and simple expansion of further grippers by logging on to the master.” **SD**

## 5-AXIS MACHINING CENTERS

# Multi-functional MX 11 nvu

**Jyoti CNC Automation Ltd**  
www.jyoti.co.in  
Hall & Stall: 5/B-112



Source: Jyoti CNC Automation Ltd

The MX 11 nvu is a highly flexible, multi-functional 5-axis machining center enabling milling and turning operations in one set-up part clamping, ranging from roughing to finishing. The machine is designed with a 3-point leveling, mobile column structure and is secured on a found-

ation enabling extreme rigidity and high geometrical stability. The modular design allows maximum flexibility in machine configuration to adapt to the technical requirements of the customer. MX 11 machine Head is equipped with an integrated torque motor and swivels 45° tilting from -45° to 180°. The machine has a powerful spindle with high torque, allowing high metal removal rates. The Electro-Spindle has two working positions—vertical and horizontal. The Table of the machine is capable to carry high loads of up to 2500 kg. To accommodate various operations in a single set-up, the machine offers a variety of ATC options with up to 120 tools. This machine finds wide applications for heavy, yet precise, components for Aerospace, Defence, and Die-Mould segments. **SD**

## VISITOR SPEAK

# “It is overall a highly positive scene”

I am responsible for business development and PR for Roland Partners Pvt Ltd. It is very heartening to see this exhibition and the number of German companies participating. I understand from the VDW side, there are more than 75 German companies participating in the exhibition, which very well showcases the strength of the exhibition itself and the importance of India as a market. It is very interesting to read in SHOWDAILY the number of collaborations being planned and multiple Indian companies celebrating their anniversary celebrations. I would like to congratulate IMTMA many more successful exhibitions. **SD**



Source: Magic Wand Media

**JamlyJohn**, Head of Business Development and Public Relations, Rödl & Partner Consulting Pvt Ltd



## CNC TURNING MACHINES

# Endorsing Self-reliance

**Gedee Weiler Pvt Ltd strives to supply high-tech CNC turning machines at affordable prices to customers so that Indian manufacturing companies can compete globally without sacrificing quality, reliability, or productivity.**



Source: Magic Wand Media

“This is the most awaited IMTEX for all the Machine Tool professionals so far, and we are all pleased to display our world-class products to our esteemed visitors,” says Anjay Goliya, VP – Sales & Service, Gedee Weiler Pvt Ltd. “We are leveraging all digital media and personally meeting/calling some major customers from across India to draw visitors to our booth. We had also advertised in respected Machine Tool magazines.”

## Changing situation

The company developed new products for Indian manufacturing industries during the pandemic and rigorously evaluated them to ensure no production or reliability losses for customers. “Although the technologies are already available on imported machines, they are not affordable enough for Indian industries,” Goliya explains. To compete globally, Indian industries must quickly adopt high-end

technologies for existing and new components. “We have seen most of the Indian manufacturing industries buy standard Turning Machines in bulk, despite their requirements for high-technology machines for their existing and new components, mainly due to the high cost of imported machines, service support, and very high cost of machine spares,” he adds.

## High-end machines on the display

The company is displaying eight machines and its agency products for productivity and quality enhancements on CNC Turning/VMC/HMC machines, with a focus on ‘High-End CNC Multi-Tasking Turning Machines’. “By ‘High-End’ we mean that these are the machines where you can execute multi-tasking machining operations, like Turning, Milling, Broaching, Gear Teeth/Spline Hobbing, without



Source: Gedee Weiler Pvt Ltd

» This is the most awaited IMTEX for all the Machine Tool professionals so far, and we are all pleased to display our world-class products to our esteemed visitors.«

**Anjay Goliya**  
VP – Sales & Service  
Gedee Weiler Pvt Ltd

unclamping the component,” explains Goliya. “This ensures the overall in-line and relative accuracy of the components.”

DUO500TT (Sub Spindle Twin Turret), DUO500MT (Sub Spindle MillTurn), Proturn 1000TM (Tool-room/Production Turnmill), Horizontal Balancing Machines, UT350DUO, UT500MT TS, LZ400 V, and Flexturn NeoTM machines are displayed. All featured CNC Turning Machines are displayed with live cutting demonstrations, and product details of each machine model are being provided. **SD**

## VISUAL INSPECTION SYSTEMS

# SuPAR from APM Technologies



Source: APM Technologies

One are the days when visual inspection and quality control were dreary undertakings. Now with the assistance of SuPAR Augmented Reality System, one can carry out visual inspection and quality control more accurately and faster with traceability. AR is a new technology, which is capable of presenting possibilities that are difficult for other technologies to offer and meet. SuPAR is an augmented reality-based interactive visual inspection tool kit. It helps to complete the process faster as well as create a photo log and traceable report, which is saved for

future references and as a proof of the activity done. SuPAR creates a project file from 3D CAD generating tracking elements to reference physical parts. This geometry is used for physical/visual verification and interactive inspection and is even useful in the guided assembly of parts like Styrofoam patterns and modular fixtures, with the system app installed on iPad pro.

## SuPAR features

**Inspection/Review:** Nominal CAD Overlap in AR, Nominal edge overlap in AR, Existing edge image processing in AR, and Virtual drawing tool on component in AR.

**Reporting:** Note points in AR, Dock photos to note points, Automated creation of Excel comment Lists, Fast Checkpoints in AR, and Predefined symbols and texts.

## APM Technologies 3D Pvt Ltd

www.apmtech.in  
Hall & Stall: 2B/A-111

**Communication:** Microsoft Teams Connection, Digital Twin in AR (hologram), and 3D viewer for the digital twin

**Interface to database:** Communication notes.

SuPAR is already being appreciated by users in the following industries: Automotive, Tooling & Fixtures Assembly, Styrofoam Pattern Making, Sheet Metal Products & Assemblies, Large Fabrications, Incoming Goods Inspection, Transport Recks Assembly, and Roboter Gripper Assembly. **SD**

## VISITOR SPEAK

# “IMTEX 2023 has more visitors”

“We are into the labeling and packaging-related product lines. This edition of IMTEX has more visitors than the last time. The response indicates that the Indian economy is advancing and also IMTEX’s popularity is growing. Many of the Bangalore-based machine tools manufacturers are our clients. I have come to IMTEX 2023 to physically meet them, discuss future business opportunities with them, and meet potential clients from other states of India. So far, I have generated good leads for business expansion. I have also found some components for the machines we use. I feel both my purposes have been fulfilled.”

Srikrishna Nidugala, Director, Pezosys India Pvt Ltd Bangalore



Source: Magic Wand Media

**MACHINE TOOLS**

## SPEEDIO U500Xd1 for Efficient Machining

**Y**amazzen Machinery & Tools India Pvt Ltd was established as a subsidiary of Yamazen Corporation in 2006. The machine SPEEDIO U500Xd1 from Brother Industries, Ltd is equipped with a tilting rotary table with a jig area of 500 mm in diameter. It occupies

less space although the machine is equipped with a high-speed and highly accurate tilting rotary table with ample jig area and a newly developed compact drum-type 28-tool magazine. Reduction in waste is done by optimizing control through machine/controller integrated development. Fast acceleration and quick response happen through machine/controller integrated development and control is optimized with the new CNC-D00 controller drive. The rigid machine structure and highly efficient spindle motor enable a broad range of machining. Intuitive operation is possible with new apps and a 15-inch LCD vertical touch panel screen. The SPEEDIO U500Xd1 offers highly efficient machining in various industries, from Automobile, General Machinery, Medical, to Aircraft.



**Yamazzen Machinery & Tools India Pvt Ltd**  
www.yamazzen.co.in  
Hall & Stall: 4/B-116

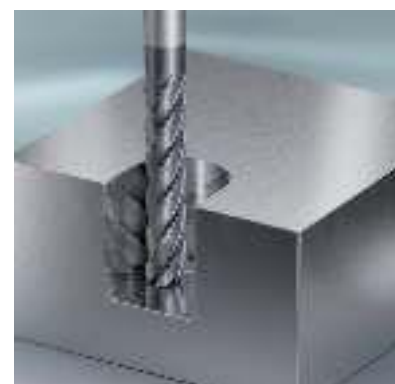
Source: Yamazen Machinery & Tools India Pvt Ltd

**CARBIDE MILLING CUTTERS**

## CARBLoop from LMT Tools

**W**ith the CARBLoop, LMT Tools is expanding its extensive tool portfolio to include solid carbide milling cutters that have been specially developed for trochoidal milling. Thanks to its maximum depth of cut (3 x Ø and 5 x Ø) and ideally matched geometry, the new trochoidal milling cutter guarantees outstanding cutting performance, the shortest machining times, and long tool life. Production costs can thus be drastically reduced. One characteristic feature is the completely newly developed chip breakers, which are arranged offset to each other. The chip breakers reduce the chip volume by half and ensure smooth chip evacuation even at high cutting values. Depending on the diameter, the tools have up to 14 chip breakers.

cutting speeds and guarantees maximum metal removal rates as well as tooth feeds. Another advantage is the 2 mm longer cutting edge. It is available in two variants: as CARBLoop STEEL for the application range ISO-P and ISO-K as well as CARBLoop INOX for the machining of ISO-S and ISO-M materials.



**LMT Tools**  
www.lmt-tools.com/en  
Hall & Stall: 3A/B-110

Source: LMT Tools

**CLAMPING SYSTEMS**

## Hydro Grip Reduction Sleeves from Lexis

**L**exis Tooling Systems Pvt Ltd (LTSPL) is a pioneer in Precision Products and a globally trusted brand with a perfect combination of human, machine, and environment. With the perfect blend of Indo-US technology, Lexis is one of the leading global manufacturers in designing, production, quality, and marketing of a wide range of state-of-the-art precision-engineered Collets and Tool Holding Systems offered in India and abroad with international standards.

cost, and lesser downtime of the machine. Lexis Hydro Grip Reduction Sleeves are designed and must be used of the exact size as they do not have a collapse range like ER Standard Collets. Suitable for high-precision applications, run out controlled and certified less than 5-micron accuracy.



**Lexis Tooling Systems Pvt Ltd**  
lexistooling.com  
Hall & Stall: 5/C-125

Source: Lexis Tooling Systems Pvt Ltd

## Making Engineers Industry Ready

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- Product Optimization through Finite Element Methods (FEM) (Duration 6 Weeks)
- Master class in Implementing Industry 4.0 in Manufacturing – A Hands-on approach (Duration 4 Weeks)

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**INDUSTRY 4.0**

## Offering Smart Solutions

**Smart Factory Solutions provider S2V2 INC. acknowledges IMTMA's endeavor to provide an opportunity to startups...**



**S2V2 INC.**  
www.s2v2.in  
Hall & Stall: 1B/A-134

Virendra Rale, CEO, S2V2 INC., is thankful to IMTMA, for offering a unique platform of IMTEX to startups. "This is my first IMTEX exhibition, and we were able to get full order books as well as promising leads for the next year," he shares.

### Company's strengths

The company focuses on products in Industry 3.3/3.5, 4, and 5.0,

which are not yet in India. "Unlike smart manufacturing, Industry 4.0 digitizes machine materials and methods and sends them to the user's system. We recently entered the Indian market and found that a lot of data was coming, but most of it was dumped or deleted due to a lack of support," he explains. "In India, production, planning, quality, and WIP are not covered in any ERP, so many people maintain this data in Excel and update the figure in their ERP at the end of the day. We collect production, quality, manpower, and material handling data, process it, and use business intelligence (BI) algorithms to generate tons of reports the management wants, all of which can be available on users' mobiles as 'Dashboard Software' that updates data every 30 seconds so users can see real-time data. So that's our strength and where the industry is currently going," Rale adds.

**SD**

**ZERO-POINT CLAMPING TECHNOLOGY**

## Zero-Point-Systems from AMF

The patented and globally accepted AMF – Zero-Point-Systems are used for set-up-time reduction in CNC metal cutting as well as non-metal cutting fixtures. Apart from fixture clamping, direct clamping of huge workpieces with ZPS avoids additional fixturing and distortion-free machining of 5 sides in a single set-up, which also increases the quality of machining and saves a lot of setting/clamping time. ZPS is also used for grinding, assembly, turning, EDMs and additive manufacturing (3D printing), etc. Repeatability is within 0.005 mm. Clamping modules have high holding and pull-in/locking forces. The module is opened pneumatically with 5 bar or hydraulically with 50 bar and mechanically self-locked. The clamping module connection can be disconnected once the clamping is achieved. Mechanical clamping and mechanical de-clamping modules are also available. The weight-carrying capacity of modules is up to 6 tonne. Locating and clamping is done in one step. Blow-out is in-built and



Source: AMF

is a standard option in all modules to prevent heavy chips from falling on modules. A special conical pull stud screw helps the loading and unloading of fixtures easily without any collision even beyond 45 deg. Multiple balls help clamping circumferentially to counter-cutting forces from 360 deg. It is compact in design and has less number of parts. Friction-less sliding of parts increases the life of the product. A wide range of clamping modules from dia 18 mm-148 mm, pulling force from 0.1 kN-40 kN, and holding force from 1 kN-105 kN is available.

**SD**

**ANDREAS MAIER Workholding Technology Pvt Ltd**  
www.amf.de  
Hall & Stall: 2B/A101-B

**TURNKEY CNC SOLUTIONS**

## Putting Success in Motion

**First-time exhibitor ANCA Motion in India showcases related products for grinding and automation, as well as live demonstrations aimed at new customers.**



Source: Magic Wand Media

ANCA Motion controls innovations company, ANCA Motion, is excited to meet new customers, including OEMs, System Integrators, and End Users. "This is the first show for ANCA Motion in India," says Rahul Diwan, Business Development Manager,

ANCA Motion. "We have planned an advertisement through Fair Guide at a key location and have also planned through social media and in-person emailers."

### On display

The company is displaying turnkey CNC solutions and automation

**ANCA Motion**  
www.ancamotion.com  
Hall & Stall: 4/A-155

equipment with IIoT features and Industry 4.0 readiness. "As this is the exhibition focused on the metal cutting applications, we are showcasing related products of grinding and automation in IMTEX 23 & Tooltech 2023 and Digital Manufacturing 2023," says Diwan. The products showcased include \*CyGrind, a turnkey CNC solution for grinding OD, ID, Non-Round, and CAM Grinding that comes with a high-performance, flexible, and intuitive CNC system and software \*ANCA Motion's CNC Systems with five axes or more for Indian industry applications \*LinX® S series Linear Motors for machine tool applications, which are high-precision Tubular Linear Motors with precision to the tune of nanometers and \*LinX® M series Linear Motors

for automation in machine tool applications. These are energy-efficient, high-speed, and environment-friendly linear motors. "We also have two high-end laser cutting applications, namely 2D Cut Master and Tube Cut Master," he further mentions. "The details of these can be collected through the QR code on the booth displays."

### Live demos

CyGrind is one of the products that is being demonstrated live. "The customers can see, operate, and experience a highly interactive user interface with ANCA Motion CyGrind," Diwan adds. "The demo is with a CNC system of AMC6, Servo drives, Motors, Touch Panel, and Remote Pendant." Other demonstrations include an inverted pendulum's key features and strengths of the LinX® S series, allowing customers to see, experience, and correlate their applications, as well as showcasing LinX® M with an interesting demo of V-Bot with two Tubular Linear Motors LinX® M, demonstrating its accuracy and speed.

**SD**

**MILLING MACHINES**

## CNC Milling Machine Gantry Type

**M**ulti Axis CNC is engaged in the manufacturing of Gantry type CNC Milling Machines



Source: Multi Axis CNC

**Multi Axis CNC**  
[www.multiaxiscnc.co.in](http://www.multiaxiscnc.co.in)  
Hall & Stall: 5/C-115

in the range 2500 mm, 3000 mm, and 4000 mm with Fanuc or Mitsubishi controller using BT40/BT50 type tool with 5.5/7.5/11.0 kW spindle power. The company's machines are widely used in boilers, shipmakers, forging industries, foundry, sheet metal dies, ceramic dies, pattern making, general CNC milling, etc. Located in Bhiwadi-Delhi, NCR, the company is also into high-speed CNC engraving, CNC die & mould milling, customized machines for shoe industries, stone routers, etc.

**FIRE SUPPRESSION SYSTEM**

## Fire Identifying Solution from WEFIRE

**A** CNC machine using neat cutting oil as a coolant is highly vulnerable to a fire outbreak. The solution is to identify and mitigate the fire risk at its source i.e. detect and suppress the fire as soon as it starts. Fire usually erupts into an inferno when not tackled early on.



**Warrier Electronics - WEFIRE**  
[www.wefire.in](http://www.wefire.in)  
Hall & Stall: 4/C-124

WEFIRE's critical equipment fire suppression system is the ideal solution to a CNC fire. WEFIRE system's fire detection equipment is installed within the CNC, giving one the highest margin of safety. This is, in turn, integrated with an active fire-extinguishing gas cylinder, which activates the gas discharge automatically as soon as a fire is detected in the machine, thereby knocking it down very early at its source. The environment-friendly gas Viz Novec 1230 has a shelf life of over 15 years and, thus, offers one a value-for-money fire suppression system. WEFIRE system can also be integrated with a CNC or building fire alarm system.

Source: Warrier Electronics - WEFIRE

**TURNING MACHINES**

## Polygon Turning Machine

**T**rishul Machine Tools Pvt Ltd is in the business of manufacturing Polygon Turning machines for over 20 years. It has mastered the process including the machining of super alloys like Duplex, Super Duplex, Inconel, Monel, and Titanium. Polygon Turning is a generation process. The tool and the job rotate simultaneously. The locus

of the point of contact of the two interposing circles is an 'ellipse' of minor diameter equal to the across flat size of the component and the major diameter equal to twice the tool diameter and across flat size of the polygon. Unlike in turning, where the disturbing forces are generally uniform throughout the process, in the Polygon Turning operation, the disturbing forces vary from point to

point on the surface being machined owing to the varying dynamic geometry of the tools. The varying chip thickness is another important factor contributing significantly to the disturbing force. Under these circumstances, the stability of clamping and the natural stiffness of the part being machined have to be essentially rigid enough to resist the disturbing forces induced by the cutting action.



Source: Trishul Machine Tools Pvt Ltd

**Trishul Machine Tools Pvt Ltd**  
[www.trishulmachine.com](http://www.trishulmachine.com)  
Hall & Stall: 5/A-111

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**ICEX SPAIN TRADE AND INVESTMENT**

# Toward a Common Vision



Source: Magic Wand Media

The Spain Pavilion in IMTEX 2023 & Tooltech 2023 is organized by ICEX Spain Trade and Investment, in collaboration with Advanced Manufacturing Technologies (AFM) Cluster. ICEX Spain Trade and Investment promotes foreign investment in Spain and provides services to help Spanish companies in their process of internationalizing. And, AFM Cluster is the organization that represents the

interests of advanced and digital manufacturing in Spain. The Spain Pavilion includes the following seven participating companies: Ekin, FAGOR AUTOMATION, IBARMIA, JUARISTI, CORREA, SHUTON, and ZAYER.

## Strong ties between the countries

Spanish companies in the advanced manufacturing sector have a solid presence in India. Some of them



Source: ICEX

» After four years of absence due to the pandemic, we expect the 2023 edition of IMTEX & Tooltech to be a great opportunity for companies and investors to meet again in person which will certainly help the decision-making process in terms of buying and possible collaborations.«

**Vanesa Álvarez Franco**  
Economic & Commercial  
Counsellor  
ICEX

have been established through subsidiaries for many years. In 2021, exports to India represented 5.42 percent of the total Spanish exports of machine tools. Also, Spain is the European Union's third most important producer and exporter of machine tools and is ranked ninth in the world.

"The year 2021 was of recovering sales figures and particularly attracting new orders. The advanced manufacturing and machine-tool sector in Spain closed 2021 with a turnover of €1,571.20

million, representing an increase of 18.66 percent in 2020, recovering a significant portion of what was lost due to the pandemic," she adds. The machine tool orders in the same year increased by almost 30 percent above 2019 figures (+69.2% with respect to 2020).

**SD**

**ICEX**  
www.icex.es  
Hall & Stall: 4/A-127

**FIBER LASER MACHINES**

## ECO MAX for Metals and Non-Metals

The 20W Fiber Laser Machine from Stamp 'It Robotai & Solutions comes with the company's own Elec-

tronic Cards (Mother Board) and own STAMPSOFT Software. The fiber laser marking machine is the most accepted technology among the laser marking systems due to its versatility, minimal maintenance, and nil requirement of consumables. The machine is used for metals as well as non-metals and is used to mark barcodes, serial numbers, QR codes, personal details, graphics, etc. Also available are 20W, 30W, and 50W laser machines with a standard window size of 110 mm x 110 mm and an optional window size of (70 x 70 mm, 150 x 150 mm). Three models of the machine are available: Desktop Model, Table Top Model, and Model with an Enclosure.

**SD**



Source: Stamp 'It Robotai & Solutions Pvt Ltd

**Stamp 'It Robotai & Solutions Pvt Ltd**  
www.marknstamp.com  
Hall & Stall: 2A/B-102

**COOLERS & CHILLERS**

## FREDDO from U-Tech

U-Tech Group has been associated with well-known international brands of coolers and chillers for many years and has sold around 100 coolers and chillers in the Indian market. To provide Indian customers with a range that suits Indian conditions, U-Tech has now started manufacturing its own FREDDO range of coolers and chillers for machine tool and industrial applications. U-Tech has been exporting this for some time and now offers it to Indian customers. Typical models are stand-alone, with or without tanks and immersion types. They are available in a wide range starting from a small 800 Kcal capacity. The models are available for either spindle cooling or chilling of coolants. Considering typical

machine tool applications, these are available for use either with straight-cutting oil or water emulsion coolants. U-Tech designs these products keeping in mind users' needs and applications and manufactures them using the best material to ensure quality and reliability. A few models of the new range are on display at U-Tech's booth for visitors to see.

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Source: U-Tech Associates

**U-Tech Associates**  
www.u-techindia.com  
Hall & Stall: 5/B-120

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