



International Machine Tool &  
Manufacturing Technology Exhibition

**JANUARY 19 - 25, 2023, BANGALORE, INDIA**

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DAY 2 • FRIDAY, JANUARY 20, 2023

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### ON THE GROWTH PATH

# Making Wide Strides

The inaugural day of IMTMA's flagship event IMTEX 2023 & Tooltech 2023, along with Digital Manufacturing 2023, was the spectacle of the manufacturing industry's remarkable grit and grace. The showcased path-breaking innovations that have put India on a pedestal reflected our resolute spirit in the face of the recent crisis.



Source: Magic Wand Media

The 20<sup>th</sup> edition of IMTMA's flagship international machine tool and manufacturing technology exhibition IMTEX yesterday had a befitting start to it as the industry veterans physically came together for its ceremonial inauguration. Apart from the show's comeback, they rejoiced at IMTMA's completion of 75 glorious years.

The exhibition was inaugurated in the presence of industry veterans including the Guests of Honor Gopal Subramanyam, Chairman, SKF India and Kamal Bali, President & Managing Director, Volvo Group India; Jamshyd N Godrej, Chairman, Exhibitions – IMTMA; Ravi Raghavan, President, IMTMA; Rajendra Rajamane, Vice Presi-

dent, IMTMA and Jibak Dasgupta, Director General & CEO, IMTMA.

### In the spirit of success

In his welcome address, Godrej applauded the Indian Machine Tool industry for achieving global recognition and congratulated IMTMA on the completion of its 75 years journey.

To be continued on 4 ▶



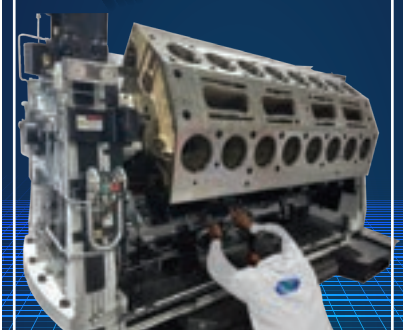
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Forward Together™



Source: Magic Wand Media



Source: Magic Wand Media



» We are in the right space at the right time. In the next 20 years, our journey will be fueled by our young talents. More international investments will come to India. Better policies are creating the avenue for the same.«

**Kamal Bali**  
President & Managing Director  
Volvo Group India

» The Indian Machine Tool industry's growth rate is at 6 to 7 percent, which is a good sign for its growth. However, it must grow at 8 to 10 percent. We all have to get prepared now to cope with the pressure of large-scale orders in the coming days.«

**Jamshyd N Godrej**  
Chairman  
Exhibitions – IMTMA

» All governments are stressing infrastructure projects which can open up opportunities. Hence, machine tools manufacturers should not limit their focus just to the Automotive industry.«

**Gopal Subramanyam**  
Chairman  
SKF India

Raghavan joined in to acknowledge IMTMA's efforts and the Indian Machine Tool industry for making waves globally. "IMTMA has built up many international associations. Their representatives are visiting this IMTEX. Many machine tools start-ups are showcasing their innovative products in this edition. Keeping in mind the expansive nature of the Machine Tool industry and the inclu-

sion of fields like Machine Learning (ML), Industrial Internet of Things (IIoT), Data Science, etc., this time we have included exhibitors from those areas too," he added. Subramanyam, in his address, said that the Machine Tool industry needs to explore new arenas like the Infrastructure sector which may pave the way for future growth. Bali gave a broader perspective of the Manufacturing industry. He said that the next decade belongs to India. He called upon the industry to adopt best practices and build partnerships with global entities. "India witnessed marvelous export growth last year. As the Indian Manufacturing industry is on the growth path, the Machine Tool industry will also grow."

### Releases and awards

The IMTMA publications – 'Comprehensive Report on Indian Metalworking Machine Tool Industry 2023' highlighting the current demand trends in the machine tool industry, IMTMA Members' Directory 2023, and Exhibition

Source: Magic Wand Media



Source: Magic Wand Media



Catalogue on IMTEX 2023 – were released at the inauguration. The IMTMA Premier Outstanding Entrepreneurship Award in memory of Vinod Doshi was conferred on

Rajendra Rajamane, and L Krishnan, Past President, IMTMA, was awarded the IMTMA BFW Lifetime Contribution Award in memory of H.R. Gupta.

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**STALL** : A113 - Hall 1A

**DATE** : 19<sup>th</sup> - 25<sup>th</sup> Jan - 2023

**TIME** : 10.00 am - 6.00 pm



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# Going from Strength to Strength

**Yamazaki Mazak Corporation is about to start manufacturing machines in Pune, India. With the new factory in the country, Mazak will have 11 production bases all over the world—five in Japan and six overseas. Company President Takashi Yamazaki shares more on the significant news...**



(L-R): Anil Bhardwaj, Managing Director, Yamazaki Mazak India Pvt Ltd; Vivek Sharma, Chairman, Yamazaki Mazak India Pvt Ltd; Mr Takashi Yamazaki, President, Yamazaki Mazak Corporation, along with his colleagues addressing the press conference at IMTEX 2023.

**Y**amazaki Mazak Corporation is a reputed leader in the manufacture of advanced technology solutions including multi-tasking, 5-axis, milling, turning, and automation. The company has had remarkable growth in India since it commenced

its operations in the country in 1998. It has been successfully providing Total Customer Solutions in the Indian market, while relentlessly adding milestones in its growth journey here. From a small team in Chinchwad, Pune that was formed to offer after-sales support, the company has grown exponentially in terms of sales, service, and application network all over India.

## The Mazak India growth story

In 2011, the company moved to its new Technology Center in Sanawadi, Pune sprawled over a luxurious five-acre area, which today has the most advanced machines installed for live demonstration and training purposes. The facility also houses an Online Support System, a state-of-the-art Spindle Repair Facility, and a National Parts Center. Its other five technical centers are in Delhi, Ahmedabad, Bangalore, Chennai, and Coimbatore. The backbone of the Yamazaki Mazak success story in India is a highly trained manpower for providing turnkey solutions and after-sales service.

The company has a strong customer base, ranging from OEMs to Job Shops on a pan-India basis. Mazak offers over 200 varieties of products in the Indian market, including Multitasking, Automation, Horizontal Machining Centers, Vertical Machining Centers, and Turning Centers.

## Growing in strength

The new factory in Pune is yet another proverbial feather in Mazak's hat. It is in the advanced stage of construction and will be operational in March 2023.

Mr Takashi Yamazaki, President, Yamazaki Mazak Corporation, shares what prompted the company to start a manufacturing plant in India, especially in Pune, "We started our operations in India 25 years ago in 1998. We chose Pune as our base because of a strong engineering industry presence and our existing customers. In 2011, we opened a big Technology Center to give support to our customers. We have a strong team in Pune and, hence, the city was the natural choice as the base for the manufacturing plant."

The company will start with Vertical Machining Centers in the first phase. "The investment in the first phase of the Indian factory is approximately ₹240 crore. The site area is 23 acre and the total floor area is 23,130 sqm," he adds.

## Demand for Indian machine tools to go up

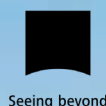
When asked which new (sunshine) industry sectors in India look most promising in terms of generating maximum revenue over the traditional industry sectors, Mr Yamazaki replies, "Currently, in India, a wide range of industries, including automobiles, agricultural machinery, and aircraft, continue to actively invest in equipment as the domestic demand expands. Especially in recent years, as the supply chain of the manufacturing industry has been reviewed worldwide, semiconductor investment in India has been active. Combined with these trends, the demand for machine tools is expected to increase over the medium to long term."

Mr Takashi Yamazaki has been visiting India extensively for the past 25 years and is well-versed with the Indian industry. His personal admiration of the Indian engineering talent, ingenuity, and sincerity of the workforce make India very close to his heart.

**SD**

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**MULTI-TASKING MACHINES**

## High-Productivity Multi-Tasking Machine MT200



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www.meibanengg.com  
Hall & Stall: 5/B-103

**M**T200 is an ultimate multi-tasker with opposed twin in-line spindles. It comes with Turning and Milling capabilities, all combined in one machine. The machine can be configured with 2 or 3 Turrets. It comes with a 'Y' axis on all Turrets and has a Live Tool function on all turrets and stations. This offers flexible automation with bar work and chuck capabilities. The operator can realize two tools in a single cut.

The programmer can use various cutting variations available to use 2 turrets or 3 turrets with Y-Axis for the best cutting process in turning and milling simultaneously. MT200 offers process integration to complete the work in one set-up. Small and large workpieces up to 200 mm can be accommodated. Large-sized bar feeders up to 80 mm are an option. Selectable spindle drive motors and speed ranges are available from 11 kW/15 kW-18.5 kW as options. A high-speed 3 axes CNC Gantry Loader is an additional advantage for non-stop production. The loader can help in handling heavier parts. Suitable applications vary from automotive to non-automotive and cover Hydraulics, Pneumatic, Aerospace, Medical, Oil & Gas, Precision Engineering, Die & Molds, etc. Some typical components include Shafts, AC compressor cylinder blocks, Parts for CNG fittings, Differential cases, etc. **SD**

**GRINDING MACHINES**

## The All-Rounder HELITRONIC RAPTOR

**T**he HELITRONIC RAPTOR from WALTER is a flexible and universal tool-grinding machine specially designed for the grinding and re-sharpening of rotationally symmetrical tools for the metal and wood industry. The specialized equipment of the HELITRONIC RAPTOR optimizes the important equipment options so that the HELITRONIC RAPTOR is targeted at the re-sharpening sector of rotationally symmetrical tools, in which one usually does not require a large variety of automation or automatic tool support systems or an automatic change of grinding wheels but still requires a high degree of flexibility in the working area for large and diverse types of tools. Tools with a maximum diameter of 320 mm and a maximum length of 280 mm, including end-face operation can be ground with the HELITRONIC RAPTOR. For the automatic loading of up to 500 tools, an optional top loader, integrated into the working area, is available.



**United Grinding India LLP**  
www.grinding.ch  
Hall & Stall: 4/C-115

Further equipment features are: Low vibration, solid grey cast iron, gantry-type construction; 11.5 kW spindle motor; Grinding software HELITRONIC TOOL STUDIO; and options such as Top loader, Glass scales, Torque drive for the A-axis, Probe for measuring the grinding wheels, and Manual support steady rest. **SD**

Source: United Grinding India LLP

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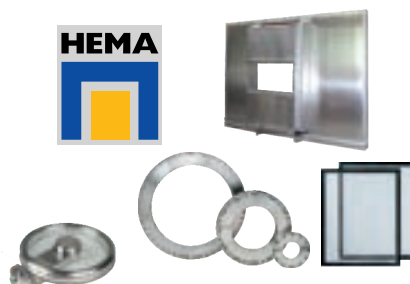
**IMTEX 2023**



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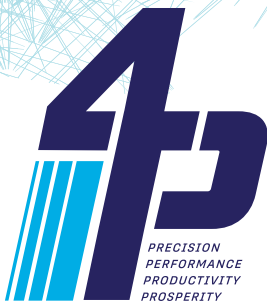
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## VACUUM CLAMPING SYSTEMS

### Vacuum Clamping Plates by AMF

**A**MF Vacuum clamping systems are used in the wood, plastic, glass, ferrous and non-ferrous metal industries for quick clamping and simple machining. And also to clamp workpieces for engraving, grinding, assembly, and polishing, etc. They are best suitable for plates to be machined or processed. If a plate is clamped, all 5 sides can be machined in a single set-up, including holes or pockets if any.

In vacuum clamping, a pressure differential is created, which presses the workpiece against the clamping plate. Thus, the workpiece

is pressed against the vacuum table. The sliding surface of the workpiece depends on its surface structure, the pressure differential, and the area on which the vacuum acts. More the contact area, the more the holding forces.

All surfaces of an object are subjected to an even pressure of approx. 1 bar by the surrounding atmosphere. The integrated Venturi nozzle or an external vacuum pump then removes some of the air from under the workpiece being held, thus removing part of the pressure load on that surface. What remains is a one-sided pressure on the top surface of the workpiece, whose size depends on the degree of the vacuum. Generally, it is 0.7 - 0.8 bar.

It is also possible to integrate the Vacuum clamping into the AMF Zero-Point-Clamping system, size K20. The sizes of plates available are min 150 x 150 mm, max 600 x 800 mm in a standard range. Bigger sizes on request.



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

Source: ANDREAS MAIER Workholding Technology Pvt Ltd

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## GEAR UNITS

### Gear Units for All Situations

**E**ppinger has the right product for every situation in the coaxial or angular arrangement between input and output.

#### Coaxial gear units

Eppinger's low backlash planetary gear units are designed for use in simple positioning tasks up to highly dynamic applications. They can be used both in intermittent and continuous operations. Planetary gear units have a small outer diameter; due to the cascading of the gear stages, the overall length of multi-stage planetary gear units is higher compared to cycloidal gear units. The company's cycloidal gear units meet the highest demands in terms of rigidity, torsional backlash, and

torque in the smallest installation space. They have a more compact design compared to planetary gear units. However, the diameter of the gear unit housing is increased compared to a planetary gear unit.

Types of Coaxial gear units available for different application needs include:

- Planetary Gear Units: PE/PF/ PA/ PT/ PS/ PR/ PX
- Cycloidal Gear Units: C1T/C1F/C1Q /C1R /C3Q /C3R /C6F/C7R/C8R

#### Angular gear units

The robust bevel gear units are extremely compact, thanks to their monolithic housing. These gear units have a maximum gear ratio of  $i=5$ . If a larger gear ratio of  $i=5$  to  $i=90$  is required, single- and two-stage hypoid gear units are the right choice. The highest torque densities are achieved with the company's functionally designed angular planetary gear unit series, starting with a gear ratio of  $i=3:1$  up to  $i=5500:1$ .

- Bevel Gear Units: BM/BT
- Hypoid Gear Units: HT/SHT
- Angular Planetary Gear Units: PBE/PBF/PBA/PHT/PHR/PHX



**Eppinger Tooling Asia Pvt Ltd/ ESA Eppinger GmbH**  
www.eppinger.de  
Hall & Stall: 2B/B-101

Source: Eppinger Tooling Asia Pvt Ltd

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## Making Engineers Industry Ready

### Career oriented courses for Engineers

- Hands-on Training on Machine Tool Design - CNC GPM / SPM (Duration 8 Weeks)
- Finishing School in Production Engineering (Duration 6 Weeks)
- Hands-on Training on Industrial and Machine Automation for Digital Manufacturing (Duration 6 Weeks)
- 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)

#### Whom it is applicable

- Fresh engineers seeking a career in manufacturing industry
- Engineering students in Pre final / final year
- New hires in industry
- Engineering students looking for internship

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## FLAT DRILLS

### Flat MultiDrill for Cylindrical Surfaces

**C**onventionally, when machining holes on inclined surfaces, cylindrical surfaces, and other non-flat surfaces, a flat base is first formed with an endmill in a process known as spot-facing, after which a drill will be used to make the hole. The Flat MultiDrill MDF series, with a unique high-rigidity design, directly and efficiently machines holes on sloping and cylindrical surfaces, as well as holes that require flat bottoms, such as bolt seats, and reduce burrs during drill retraction. Shorter machining times and process integration contribute to lowering the machining cost per component. With this series, an even wider range of drilling applications can be achieved.

Advantages of the Flat MultiDrill MDF series include:

**High Efficiency & Cost Saving:** Direct drilling with Flat Drills on inclined surfaces, cylindrical surfaces, and other non-flat surfaces, elimina-

tes One Pre Tool (End Mills or Spot Face) and reduces time and cost.

**Reduction of Burr at Hole Exit:** Flat Drills reduce the exit burr up to 1/3<sup>rd</sup> as compared to Normal Cone Type Drills.

**Wide Application Range:** It can be used in a variety of drilling applications due to its 180° point angle and provides efficient spot facing, drilling in non-horizontal surfaces such as inclined, cylindrical, and interrupted surface drilling.

**Excellent Hole Quality:** Wide flute shape along with a highly polished surface helps in very good chip evacuation and provides excellent hole quality.



**Motherson Techno Tools (JV with Sumitomo Electric)**  
www.mothersontools.com  
Hall & Stall: 4/B-143

Source: Motherson Techno Tools

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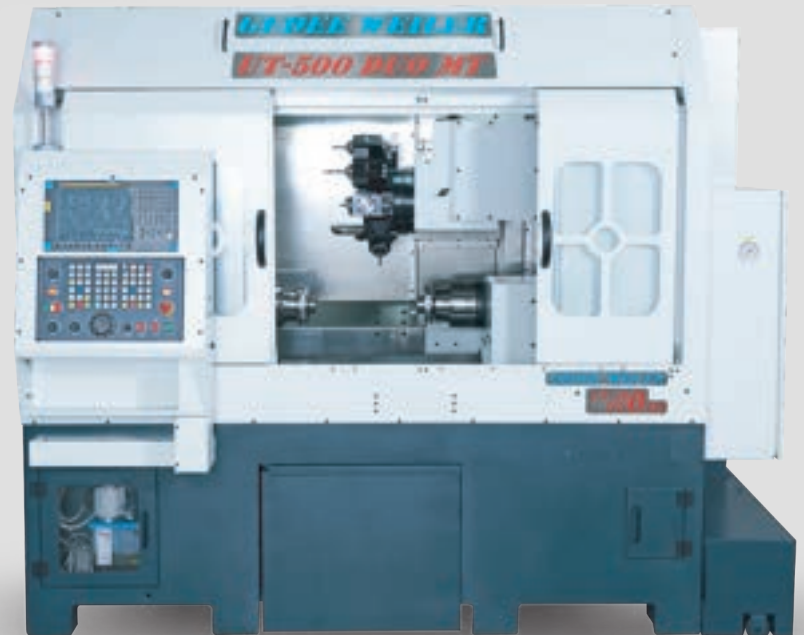


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# Tapping Opportunities

**C Renganathan, Director, Chennai Metco Pvt Ltd, attests to the fact that there is a never-seen-before enthusiasm in the exhibitors and visitors alike at IMTEX 2023 & Tooltech 2023, which is happening after a gap of four years.**



Source: Magic Wand Media



Source: Magic Wand Media

» This edition of IMTEX & Tooltech has been keenly awaited both by exhibitors and visitors. Their interest to showcase their offerings is apparent and there is some kind of hunger in the visitors to explore before they acquire what they need.«

**C Renganathan**  
**Director**  
**Chennai Metco Pvt Ltd**

“This edition of IMTEX & Tooltech has been keenly awaited both by exhibitors and visitors. Their interest to showcase their offerings is apparent and there is some kind of hunger in the visitors to explore before they acquire what they need,” says C Renganathan, Director, Chennai Metco Pvt Ltd.

“As an exhibitor, we have made all possible efforts to ensure more and more visitors come to our booth. We mainly bank on the high-quality decision-makers who make it a point to go around at IMTEX. We expect this to happen effectively in this edition too as the Indian industry also is looking up as of now,” he adds.

## Best on display

Chennai Metco is showcasing the following in this edition of the show:

- Automated Carbide Rod Cutter
- Abrasive Cutting Machine – Large, High-Speed Precision Cutter
- Abrasive Cutter – Medium, Mounting Press Twin H Auto
- Bainpol Automatic Double Disc Polisher
- Bainpol VTD Manual Polisher
- Microscopes
- Image Analysis Software and
- Micro Hardness Tester.

Live demonstration of the above products is happening in the company booth. The event being on metal cutting, the company is displaying its new advanced Automated Carbide Rod Cutter. “We are emerging as the most preferred supplier of this specialized machine in this part of the world. The cutting tool industry can benefit by sourcing the machine indigenously and gain price and support advantage,” he adds. **SD**

**OPTICAL 3D CMM**

## When Every Second Counts

**A**TOS ScanBox is a super-fast optical 3D coordinate measuring machine for first-article inspections and serial quality control. Automated optical 3D measuring machines accelerate processes, identify sources of error at an early stage, and ensure one's competitiveness.

ATOS ScanBox is intelligent enough to program itself, cutting the rigor out of one's measurement process. Its superfast speed ensures high throughput of inspection, reducing the chances of producing non-conforming parts.

### 5 reasons for automated quality assurance

**Shorter measuring times:** Particularly for parts with complex geometries or free-form surfaces, ATOS ScanBox yields 50-80 percent faster full-field measurements.

**Easy operation:** One can plan one's measurement sequences with just a few clicks and perform them with a fully automated procedure in the



Source: APM Technologies 3D Pvt Ltd

**APM Technologies 3D Pvt Ltd**  
www.apmtech.in  
Hall & Stall: 2B/A-111

virtual measuring room (VMR) in GOM Inspect Pro.

**Numerous applications:** The various ATOS ScanBox systems for different part sizes are complete systems that can be placed directly on the shopfloor saving ways, time and costs.

**Effective analysis tool:** GOM Inspect Pro automatically generates GD&T information as well as trimming and hole positions and is considered the industry standard for metrology software.

**Powerful in many industries:** ATOS ScanBox has established itself worldwide as the preferred measuring system for production control in a wide range of industries. **SD**

**CNC INTERNAL GRINDERS**

## FIG Series from PMT Machines

**F**IG Series machines can perform several grinding operations like Internal, Front Face, Back Face, and O.D.

The Grinding operation happens in a single set-up. Components can range from 4 mm to 500 mm ID and weigh up to 500 kg. Wheel spindles are available belt-driven to the latest HF type, power up to 40 kW, and suitable for wheels A12O3 to CBN Grinding. The dressing of the wheel could be a single-point dresser, blade type, or rotary dresser.

The machine configuration available could be a basic model with a 2-axis, single spindle to a multi-axis and multi-spindle complex grinding center. Machines are precise in all respect with basic high-quality input components from world-renowned makers for key parts. The latest TPM concept is adapted for 24x7 production with SQC.

PMT has very vast experience in making workholding and fixtures with



Source: PMT Machines Ltd

**PMT Machines Ltd**  
www.pmtmachines.com  
Hall & Stall: 2A/B-112

complete tooling-up solutions under one roof. Workholding solutions may vary from the basic pull-down chuck to diaphragm chuck, double concentric, window type, cassette, shoe centerless, expanding mandrel, and with the latest features of poke-yoke or air seat check.

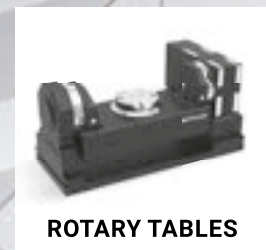
FIG Series machines are mainly used for grinding Automobile Transmission Parts, Fuel-Injection Parts, Bearings, Railways, Hydraulic, Cutting Tools, Steering Axels Parts, Defense, and Textile Industries. **SD**



# TOOL HOLDERS

## HIGH-QUALITY PRODUCTS FOR YOUR APPLICATION PROCESSES

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**VISIT US AT**



**HALL 2B, BOOTH B101**

**CASE STUDY**

# Protecting the Environment



» Blasocut 4000 has saved 1.5 million litre of coolant being disposed of. In addition, it has a monetary saving of ₹75 lakh towards disposal and zero refilling cost, amounting to a saving of ₹36 lakh in these 15 years.«

**Satish Patil**  
**Deputy General Manager - Manufacturing**  
**Fiat India Automobiles Pvt Ltd**

Fiat India Automobiles Pvt Ltd was established as a joint venture between Fiat Chrysler Automotive and Tata Motors Ltd in 2007. The plant is located at Ranjangaon near Pune with a state-of-the-art manufacturing facility for passenger vehicles like Fiat Jeep, Tata Nexon, Tata Altroz, etc.

In 2007, Fiat was looking for a reliable coolant partner for large central coolant systems to the machine engine block and head. After thorough research, Fiat decided to start a partnership with Blaser Swisslube. Fiat's machine shop has sophisticated – World-Class Manufacturing

(WCM) processes for producing engine blocks, heads, and crankshafts. For machining these important engine components, the coolant is fed through large, centralized coolant systems. The central coolant system tank sizes are 300,000 lt and 260,000 lt each for the engine block and the head. The team at Blaser filled these central systems with Blasocut 4000 Strong after a thorough analysis. Blasocut 4000 Strong, a coolant out of Blaser Swisslube's Blasocut line, is still stable and running smoothly for 15 years. The sustainable Blasocut Bio-Concept technology has contributed to achieving a robust machining process, high productivity, and better quality. Blasocut 4000 Strong is a water-miscible, mineral oil-based, high-performance cutting fluid. It is a high-performance cutting fluid for heavy-duty machining of cast iron, steel, and aluminum alloys. It shows excellent cutting performance due to EP additives. It is a mild formulation without bactericides that has good stability. It is used for the toughest machining operations. Its other benefits include extended sump life, low disposal

costs, and good human and skin compatibility. Blasocut lubricating fluids do not contain EP additives, which include sulfur, chlorine, zinc, phosphorus, boron compounds, nitrite, nitrite releasers, formaldehydes, formaldehyde releasers, amines, diethanolamine, nitrosamine, silicone, heavy metals, PCP, PCB, PCT, TCDD or other dioxide containing substances.

## Going green

Zero disposal in 15 years—this contribution towards a greener planet is immense and unmeasurable. It has saved 1.5 million litre of coolant being disposed of. In addition, it has a monetary saving of ₹75 lakh towards disposal and zero refilling cost, amounting to a saving of ₹36 lakh in these 15 years. Pramod Khot, Vice President, PWT, Manufacturing Head, Fiat India Automobiles Pvt Ltd said, "We are highly happy with the association. The collaboration of 15 years is a result of trust and strong commitment from both sides to deliver the best and safest to the industry and the environment."

**Blaser Swisslube Solutions Pvt Ltd**  
www.blaser.com  
Hall & Stall: 1B/A-111

**Company Name:** Fiat India Automobiles Pvt Ltd

**Award Category:** Sustainability

**Industry:** Automotive

**Production:** Vehicles

**Application:** Machining

**Material:** Aluminum, alloy steel

**Objective:** Robust coolant system

In 2007, Fiat was looking for a reliable coolant partner for large central coolant systems to the machine engine block and head.

**Solution:** Blasocut 4000 Strong, a coolant out of Blaser Swisslube's Blasocut line, is still stable and running smoothly for 15 years. The sustainable Blasocut Bio-Concept technology has contributed to achieving a robust machining process, high productivity, and better quality.

**Blaser Technical Consultant:** Gopal Dhole





## We help you win – now and in the future.

Decades of machining experience have taught us there are complex correlations between chemistry and mechanics. Profit from our knowledge to optimize your processes, keep them stable and quickly resolve issues.

**Meet us at our booth A111 in hall 1B.**  
**It's worth it.**





**CUTTING TOOLS AND HARD MATERIAL SOLUTIONS**

# Adopting New Paradigms in Manufacturing

**CERATIZIT showcased its comprehensive range of products and solutions, focusing on Sustainability, Automotive Solutions, Digitalization, and Industry 4.0 solutions, on the first day of IMTEX 2023 & Tooltech 2023 and Digital Manufacturing 2023.**

Source: Magic Wand Media



The CERATIZIT stall was inaugurated by H.E. Peggy Frantzen, Ambassador of the Grand Duchy of Luxembourg, accompanied by Thierry Wolter, Member of Executive Board, CERATIZIT Group; Dr Uwe Schleinkofer, Director of R&D, CERATIZIT Group; and Anil Kumar, Managing Director, CERATIZIT India.

## Broadening horizons

The company manufactures indexable inserts, tool holders, solid carbide, and PCD tools in India at two plants in Bengaluru and one in Kolkata. CERATIZIT in India is also addressing the needs of global clients while meeting Indian clients' requirements. Against this backdrop, Kumar says, "We have an aggressive investment

plan for expansion and, over the past year, have continued to make total investments of over ₹100 crore in India for upgradation and expansion." Wolter remarked that internationalization is an essential topic and that while Europe has a strong position as a supplier today, Asia and the United States still offer significant growth potential in the next few years. "We

are already the world's fourth-largest carbide manufacturer and are closing in on third place. However, in order to maintain this position in the coming years, we must expand disproportionately in Asia and America. Of course, to some extent, organically. But, if the general conditions are favorable, I can see one or two acquisitions," he adds.

## Focusing on digitalization

The CERATIZIT Group leads the metal cutting industry's digitalization with its modular monitoring and assistance system, ToolScope, a unique and comprehensive Industry 4.0 solution. Tool monitoring and control solutions like ToolScope provide greater transparency for machining processes and can boost process efficiency and reliability through real-time process parameter analysis and adjustment. **SD**

### CERATIZIT Group

[www.ceratizit.com](http://www.ceratizit.com)  
[www.cuttingtools.ceratizit.com](http://www.cuttingtools.ceratizit.com)  
Hall & Stall: 3A/A-114

## HORIZONTAL MACHINING CENTERS

### HX 500 for Heavy Components

Jyoti has developed a state-of-the-art HX-Series of Horizontal Machining Centers to match the demand of multiple face machining operations in a single set-up with high accuracy and precision for heavy components like Gear Box Casing, Engine Head, Engine Cylinder, Valve Body, and Pump Body, etc. and for the machining of components in multiple stacking with higher rigidity and

productivity. A wider T-Base structure provides structural stability for moving columns that helps in vibration-free cutting. The column of the machine comprises a step-up base construction, resulting in better load distribution. The triangular column construction ensures high rigidity under higher cutting parameters. ATC of the machine has a servo-driven bi-directional magazine, which takes the shortest path. The ATC is located outside of the machine area, which allows the machine and the ATC to operate simultaneously. With a Geared Head as an option, one can perform large-size milling and heavy boring with high cutting parameters where high torque is required. Circular entry Auto Pallet Changer with load-carrying capacity in the range of 400 to 800 kg and a Rotary table with 1° indexing offers higher productivity. **SD**

Source: Jyoti CNC Automation Ltd



**Jyoti CNC Automation Ltd**  
[www.jyoti.co.in](http://www.jyoti.co.in)  
Hall & Stall: 5/B-112

## COORDINATE MEASURING MACHINES

### For Absolute Versatility and Flexibility

ZEISS CONTURA enables one to be prepared today for the measurement requirements of tomorrow. The new generation is equipped with multi-application sensor system

(mass) technology and, thanks to a common interface, enables simple switching between different sensor technologies in just a few simple steps.

There are innovative options such as measuring in four axes using a flexible rotary table and an automated probe changing system or the HTG option (for larger temperature ranges). ZEISS CONTURA combines the performance of tactile and optical measurement tasks on a single device: from 2D image sensors to chromatic white light sensors to triangulation lasers.

With the ProMax E option, ZEISS offers an automated probe-changing magazine to guarantee the complete measuring volume during the changing process. It automatically moves into the measuring range and replaces the probe systems safely and accurately. **SD**



### Carl Zeiss India (Bangalore) Pvt Ltd

[www.zeiss.com/metrology](http://www.zeiss.com/metrology)  
[www.zeiss.co.in](http://www.zeiss.co.in)  
Hall & Stall: 2B/A-101

Source: Carl Zeiss India (Bangalore) Pvt Ltd



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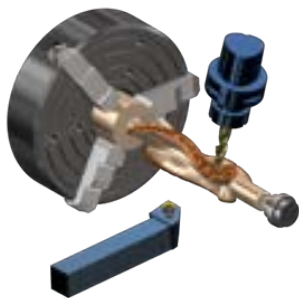
## Streamlining Machining Processes

**M**astercam Mill-Turn is a specialized software solution designed to streamline high-power multi-stream machine centers for improved performance and safety in manufacturing. These multitasking CNC machines reduce the need for multiple setups, manual part handling, redundant fixturing, and idle time, leading to increased productivity. Using proven milling and lathe toolpaths from Mastercam, this software simplifies the programming process for mill-turn machines with job setups tailored to the specific

machine in a shop. It offers optimization, synchronization, and visualization in a single platform, as well as automation to easily manage complex operations between multiple machine data streams. This allows for efficient milling, turning, and drilling operations with fewer setups at high speed, and the ability to program simple lathes in addition to complex machines. Mastercam Mill-Turn also includes a set of routines to program complex parts and test cutting strategies in a single environment before starting machining. It offers a range of features to ensure safety and quality, including automated job setup, intelligent, stock-aware toolpaths, powerful Gantt- or Tree-style synchronization, intuitive part handling tools specific to the machine, and full machine simulation with accurate visual feedback. The software also supports powerful multi-axis cutting and provides a custom machining environment where the machine configuration and limits are captured and displayed graphically.

**SD**

Source: Mastercam India



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

**INTERNATIONAL ASSOCIATION - AMT**

## Capitalizing on Opportunities

**Douglas Woods, President, AMT, believes that the potential in a market with almost 1.4 billion people attracts investors looking to expand into the Indian market and leverage opportunities with unique Indian manufacturing technology companies.**

**D**ouglas Woods, President, AMT – The Association For Manufacturing Technology, expects that IMTEX 2023 & Tooltech 2023 and Digital Manufacturing would follow the other very successful manufacturing technology events held in 2022. “We have seen that there is a strong desire to be at events like this to evaluate the latest advances in manufacturing production solutions, as well as to network and meet with industry leaders and peers to share ideas, learn about new techniques, and look for opportunities to partner or collaborate,” he states.



Source: AMT – The Association For Manufacturing Technology

### American companies at IMTEX 2023 & Tooltech 2023

There are more than 30 American companies participating in the show. There are a dozen AMT member companies exhibiting in the AMT USA Pavilion located in Hall 4. Several others are exhibiting on their own through their Indian subsidiary and still others with their agents or distributors. All these companies have made an investment and commitment to the local market and would like to increase their footprint in India. Many, he adds, are analyzing their sales channels in India and would be interested in talking to qualified distributors or agents.

The US manufacturing technology companies are particularly adept and adroit in utilizing innovative new technologies in their products and services. This tends to offer a unique range of manufacturing technology products and services to potential end users in the Indian market. So, whether it is machine tools, metrology, robotics, automation systems, software platforms, additive manufacturing, tooling, fixturing, or even manufacturing as a service (MaaS)

» India consumes about US\$ 2 billion of machine tools every year and almost half of this is imported. With the US accounting for less than 10 percent of the imported manufacturing technology, there is plenty of room for American producers to expand and capitalize on the opportunities within the booming manufacturing sector in India.«

**Douglas Woods**  
**President**  
**AMT – The Association For Manufacturing Technology**

platform, AMT members bring unique integrated technology solutions to the market.

### Give and take

According to Trade Data Monitor (TDM), the source AMT uses for global trade data, during the period from January 2021 to October 2022, India imported US\$ 160 million worth of machine tools from the US. During this same period, it exported US\$ 54 million to the US.

**SD**

**AMT – The Association For Manufacturing Technology**  
www.amtonline.org  
Hall & Stall: 4/B-130

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“Showcasing Excellence in Manufacturing”

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- HAL • Tata Steel • BEL • INDO-MIM • Rane TRW • L&T MHPs
- Cummins • Adler Mediequip • Mekhos Technology and many more...

Rush your entries by  
**30 April 2023**

**Contact:**  
**Abhishek** M: +91 9844294387 E: abhishek@imtma.in  
**Madan** M: +91 7899437625 E: madan@imtma.in  
For more details logon to: [www.productivity.imtma.in](http://www.productivity.imtma.in)



WALTER TOOL GRINDING MACHINES

# RISE AND GRIND

Hall 4,  
Booth C115



The specs and capabilities differ, but the core benefit of WALTER tool grinding machines is universal: state-of-the-art Tool Studio software for your most challenging applications. Unlock new levels of productivity from your tool grinding, eroding and measuring machines. **See them up close at booth C115.**



MÄGERLE | BLOHM | JUNG | STUDER | SCHAUDT | MIKROSA | WALTER | EWAG



## AQUEOUS CLEANERS

### X-CLEAN™ from Zavenir Daubert

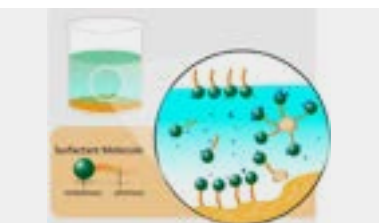
**X**-CLEAN™ is based on the latest Surfactant Technology to strike a fine balance of ingredients, structure, and polar character of a cleaner to meet specific requirements of industrial applications. This technology harnesses the abilities of Powerful Surfactants (combinations of non-ionic and cationic surfactants) to deterge versatile organic and inorganic soils by reducing the surface tension by adsorption at the liquid-gas interface. This dynamism induces superb cleaning effect without compromising on the critical factors for industrial applications such as foaming where bubbles are

rapidly generated and need to be stabilized. Corrosion prevention, biostability, and pH buffer stability properties are introduced through the addition of various specialized additives specially designed to meet BS-VI emission standard's requirements. Special Combined Effect Action enables X-CLEAN™ cleaners to combine the power of emulsification (carrying off the soil/dirt from the components) and then demulsification (separating soil/dirt from cleaner to its surface for skimming) even at lower temperatures compared to conventional cleaners. This gives opportunities to substantially reduce the energy cost per component in parts cleaning.

#### Benefits

- Power Surfactants – Superb cleaning effect;
- Latest Surfactant Technology – No foaming even at high pressure;
- Special Additives - Better surface preparation for rust protection;
- Combined Effect Action - Longer bath life.

**SD**



**Zavenir Daubert India Pvt Ltd**  
www.zavenir.com  
Hall & Stall: 4/A-154

Source: Zavenir Daubert India Pvt Ltd

## LAUNCH - TOOL HOLDING SYSTEMS

### powRgrip from REGO-FIX

**R**EGO-FIX AG Switzerland, innovators of ER technology and global leaders in advanced toolholding, are the trendsetters since mid-seventies. With tool changeouts in under 10 seconds and TIR of under 3 µm, powRgrip handles everything from high-speed milling and drilling to coolant-free cutting.

#### Features include

- Reduced vibration for longer cutter life and lower overall

tooling costs • 1,100 Nm of clamping torque • Z-level adjustment repeatability within 10 µm • 5-year/20,000-cycle warranty • A non-hydro/non-heat, purely mechanical clamping • Clamping diameters of 0.2 mm to 25 mm with Carbide/Steel/HSS Shanks • Clamping of Cylindrical/Weldon Flats • Highest Clamping torque coupled with anti-vibration allows higher MRR.

**SD**

**REGO-FIX AG, Switzerland**  
www.rego-fix.com  
Hall & Stall: 3A/C-110



Source: REGO-FIX AG, Switzerland

## CYLINDRICAL GRINDERS

### STM OCA3235 Grinder

**S**&T Machinery as a leading manufacturer of world-class cylindrical grinders, in association with Palmar Taiwan, customizes cutting-edge grinders for its customers at a reasonable price.

The company serves industries including Automotive, Aerospace, Medical, Mechanical Parts, Green Energy, and so on.

STM produces grinders with Meehanite massive base and advanced hydrostatic guideways. Precision wheel spindle with hydrostatic bearing ensures no metal-to-metal contact by delive-

ring sub-micron accuracy and durability. The swing over table is of 320 mm and Admit between center is 350 mm. The wheel thickness is up to 150 mm single plunge for a critical profile.

STM team closely works with its customers through a detailed trial which helps to develop customized grinders to meet the cost per part target. It integrates intelligence like position probing, in-process gauging, acoustic sensor, and dynamically balanced wheel, which always ensures a stable process beyond customer expectations.

The company looks to it that every single grinder is carefully manufactured and thoroughly tested before it is shipped out. As a result, STM has been able to deliver more than 40 customized cylindrical grinders within a short span of four years.

With overall India coverage for sales and

service network, STM provides quick post-sales and service support.



Source: S&T Machinery (P) Ltd

**S&T Machinery (P) Ltd**  
www.stmcnc.com  
Hall & Stall: 1A/A-117

## WELDEXPO

Exhibition for Welding, Cutting & Joining

Held concurrent with



19 - 23 January 2024  
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Bangalore - India

Bringing Together Welding Technologies.  
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Organised by  
**IMTMA**  
Indian Machine Tool Manufacturers' Association



In Association with  
**IWI INDIA**  
Indian Welding Institute

Venue



www.weldexpo.in



**FIXTURES AND WORKHOLDING EQUIPMENT**

# Forms and Gears Showcases SmartFix 4.0

**Forms and Gears, one of Asia's oldest and best-known fixture-building companies, has its spotlight on its revolutionary innovation SmartFix 4.0 at IMTEX 2023 & Tooltech 2023 and Digital Manufacturing.**



**RV Forms and Gears**  
[www.rvformsandgears.com](http://www.rvformsandgears.com)  
[www.formsandgears.com](http://www.formsandgears.com)  
Hall & Stall: 1B/B-108

SmartFix 4.0 is the world's first-ever Industry 4.0 solution for Fixtures, Workholding, and special equipment. Industry 4.0 is the ability of machines, devices, sensors, and people to connect and communicate with each other. Industry 4.0 is considered to be the 4<sup>th</sup> Industrial revolution and SmartFix 4.0 is that revolution in the Fixture building business. The company has also been honored with the CII Innovation Award for the breakthrough product. SmartFix4.0 is jointly developed by Forms and Gears and its JV partner ASM Technologies, a Bangalore-based public limited company specializing in Product Engineering, Data Analytics, and Artificial Intelligence.

SmartFix4.0 is a Precision Workholding Device with the ability to collect, transmit, and analyze data in a useful format for the end-user. Developed for the first time in the world, it takes Workholding devices and Fixtures into the digital and cyber space. As the Fixture is in continuous contact with the component, it is the ideal device to collect and analyze data at the component level.

Sensors to monitor vibration, pressure, sequence of clamping, component presence, etc. are mounted on the fixture. And sensors to monitor oil levels, oil contamination, and temperature are mounted on the powerpack. The high volume of data collected from these sensors is continuously transmitted wirelessly to the cloud where it is parsed and stored for analysis.

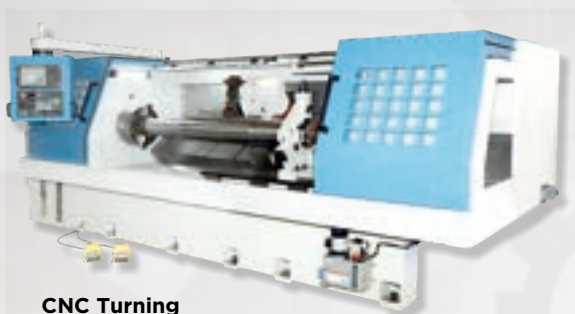
Safety alerts like pressure drop sensing, sequence off sensing, and high vibration sensing can be interfaced with the machine to switch the machine off in case the preset limits are breached. Upper and lower limits can be set based on shopfloor conditions. Analytics like tool wear analytics, cost per component, and operator efficiency analytics give valuable insights to the management to reduce costs, increase productivity, and enhance quality.

**SD**



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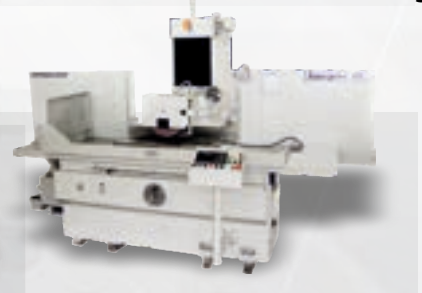
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STALL NO. B 112**



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**ROTARY TABLES**

## FIBROMOD for Complete Machining Process

With the new FIBROMOD modular rotary table series, FIBRO India Precision Products' FIBROMOD modular rotary table series covers a wide range of machining requirements in one system. The use of standardized components and well-thought-out use of interfaces offers one the optimum drive variant with a high level of flexibility depending on the application. The service-friendly design of the series also enables easy accessibility and individual adjustments. The FIBROMOD is characterized by high precision and enormous rigidity in machining processes. Thanks to

the modularity, the product focus can be placed on the highest speeds and acceleration with extremely fast positioning times or high-precision positioning depending on the application. Due to different combination options, FIBROMOD rotary tables can also be used as a fourth or fifth axis. They are, therefore, suitable for complex requirements such as simultaneous, multi-sided, and turning operations. The unique hydraulic clamping concept of the FIBROMOD offers three functions within the same installation space: Pressure less open | Pressure less clamped | Emergency stop function The 'pressure less open' function is actively clamped with hydraulic pressure so a pressure less clamp is always open. The 'pressure-less closed' function generates a residual holding force in the pressure-less state via a spring package; this force holds the rotary table in position even without clamping pressure. **SD**



**FIBRO India Precision Products Pvt Ltd**  
www.fibro-india.com  
Hall & Stall: 4/B-135

Source: FIBRO India Precision Products Pvt Ltd

**TWIN SPINDLE MACHINING CENTERS**

## Gemini Series from AMS

The new era has seen continuous demand from customers to improve machine accuracies, productivity in terms of machining cycle time, and the need for an automation interface. To meet the demands of the customers, AMS has developed a few special machining centers. Distance between two spindles varies from 250 mm to 550 mm. The machine is equipped with an unloading tray and conveyor where the machined components are automatically transferred outside the machine, allowing the operator to focus only on loading. Hence, halving the load-unload time.



Source: Ace Micromatic Group

**Ace Micromatic Group**  
www.acemicromatic.net  
Hall & Stall: Hall 5,  
Ace Micromatic Group Pavillion

### Benefits of Gemini Series

- Two parallel spindles can machine two identical workpieces at once;
- Large reduction in the cost per component due to reduction in cycle time per component;
- Optimal reduction when multiple components are machined in each cycle;
- Two times the productivity within a footprint only slightly larger than that of a single spindle machine;
- Reduction in manpower requirement, resources, and maintenance cost;
- Reduction in power consumption;
- Offers a perfect balance of productivity and economy;

- Ideal for high-volume production of identical components;
- Also available with a rotary-type pallet changer to mask component load-unload time;
- Can be given with rotary tables on either pallet to further enhance productivity by reducing set-up times.

Gemini Series include BT-30 models that include Gemini mini S, Gemini mini, and Gemini mini L. BT-40 models include CMV-350, Gemini Jr, Gemini Jr XL, Gemini XL, and Gemini 460 XL. BT-50 models include Gemini Max and Gemini Max 550. **SD**

**LAUNCH - CHIP CONVEYORS**

## INVERSO Scraper Chip Conveyor

U-Tech is proud to display INVERSO, its new Chip Conveyor that is suitable for all types of chips – long, bushy, small, metallic, non-metallic, and even floating chips. Unlike normal scraper conveyors, INVERSO has an intermediate

platform for chips to settle down – even the floating chips – which are then scraped by the scrapers. Coolant flows down and escapes into the coolant tank. Any fine dust or chips that go to the bottom of the conveyor are removed by the scrapers while moving in the opposite direction. Optionally, a rotary drum filter is also available to trap fine chips and dust up to 180 micron before the coolant enters the coolant tank. With this option, this conveyor becomes very versatile to work with any type of chip and also filters the coolant down to 180 micron.

Though the concept is new, it is already being used by many machine builders in various forms. U-Tech is displaying the product in a live demo at its booth. **SD**



Source: U-Tech Associates

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

## Forming the Future of Manufacturing

Asia's Largest Exhibition on Metal Forming and Manufacturing Technologies



International Forming Technology Exhibition

Concurrent shows



International Exhibition of Dies & Moulds, Forming Tools, Machine Accessories, Metrology and CAD / CAM



International Exhibition on Digital Manufacturing Technology



Exhibition for Welding, Cutting & Joining

In association with



**19 - 23 January 2024**

Bangalore International Exhibition Centre (BIEC), Bengaluru



Indian Machine Tool Manufacturers' Association

Venue



www.imtex.in





FROM FAR & WIDE

# Fostering Indo-German Ties



Source: Magic Wand Media

Having experienced a high quality of trade show visitors in the previous edition of IMTEX, Bettina Hainzlschmid, Manager, Trade Fairs & Exhibitions, Bavaria International, says, "This is what expect from IMTEX 2023 & Tooltech 2023 and Digital Manufacturing 2023: a large number of highly skilled professionals visiting the show to refresh existing relationships and establish new ones."

## Together to grow

**J.N. Eberle & Cie. GmbH:** The comprehensive metal band saw

program offers the right tool for all saving applications.

**FlexiCAM GmbH:** With constant innovative additions to its products and a commitment to quality, FlexiCAM has kept itself at the forefront of CNC technology.

**GMN Paul Müller Industrie GmbH & Co. KG:** The company in Nuremberg manufactures high-precision ball bearings, machine spindles, freewheel clutches, non-contact seals, and electric drives.

**HAMUEL Maschinenbau GmbH & Co. KG:** Its optimized CNC machining centers process steel, cast materials, titanium, Inconel, light

metals, and composite components with sustainability, energy efficiency, and cost efficiency.

**Hufschmied Zerspanungssysteme GmbH:** Its strength is advising customers on how to optimize manufacturing processes with high-precision instruments like milling cutters and drills.

**JAKOB Antriebstechnik GmbH:** It manufactures a complete range of couplings for servo drive technology.

**Mimatic GmbH:** The mimatic® brand is known worldwide for its high-quality integrated system solutions for machining.

**Open MIND Technologies AG:** It provides optimized CAM systems with several innovative features to improve programming and machining performance.

**OTT-JAKOB Spanntechnik GmbH:** It specializes in the manufacture of tool clamping systems for machine tools.

**Schwegler Werkzeugfabrik GmbH & Co. KG:** It manufactures customized cutting tools for drilling, milling, reaming, and sinking operations and produces solid carbide



Source: Bayern International

» Companies continue to focus on trade shows, and now is the time to use their platform again for customer and partner relationships, business expansion, and market exploration. Especially after a four-year break, it is important that we now are back to further strengthen Indo-German cooperation.«

**Bettina Hainzlschmid**  
Manager Trade Fairs & Exhibitions  
Bavaria International

**Bayern International**  
[www.bayern-international.de/en/](http://www.bayern-international.de/en/)  
Hall & Stall: 2B/B-115

and PCD cutting tools for a wide range of global customers.

**Wanderer Maschinen GmbH:** It is a producer of special purpose machines, thread milling and hobbing machines, and gantry-type and portal milling machines. **SD**

## Measures 4 Times Faster



Visit us at:



**Hall : 2B**

**Stall: A111**

**19 - 25 January 2023**

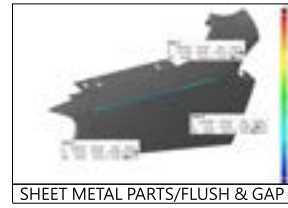
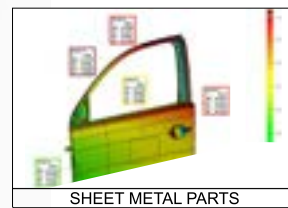
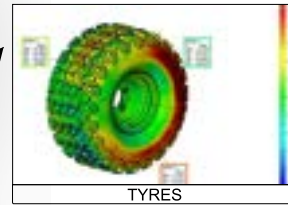
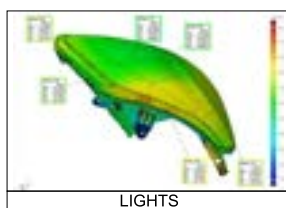
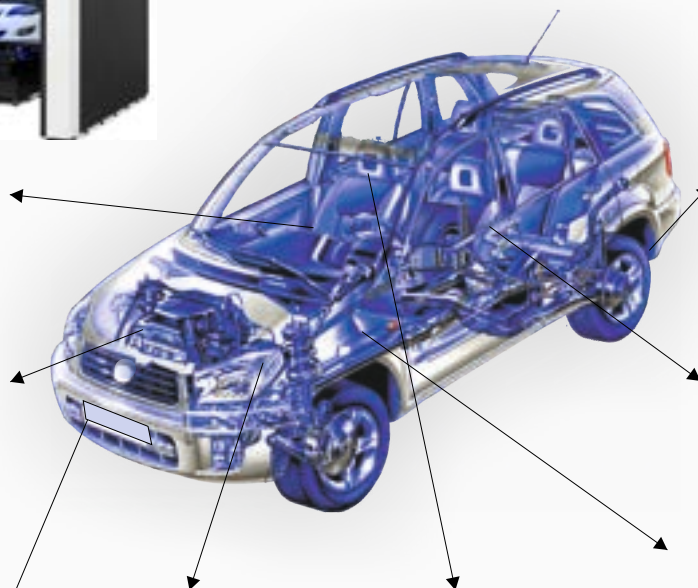
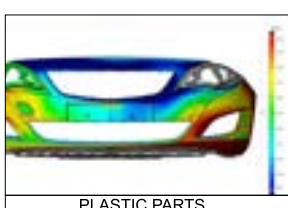
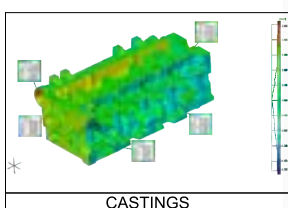
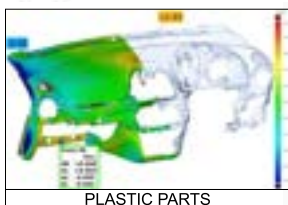
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**INDIAN MANUFACTURING PROWESS - LAUNCHES**

## LMW Launches Innovations

LMW unveiled four of its new products on the first day of IMTEX 2023.

**JD 1:** The high-speed drill tap center has a direct drive spindle BBT 30 and a speed of up to 24,000 rpm. The machine has a rigid structure with a wider working

area. It is suited for components for electronic segments such as mobile cases, laptops, and tablets.

**S Turn 1:** The state-of-the-art turning machine has a maximum turning dia of 320 mm and a maximum turning length of 400 mm. The machine comes with an 8-station hydraulic turret, a spindle speed of 4500 rpm, and a spindle power of 5.5/7.5 kW.

**Gigaturn 1:** The optimal large-diameter turning center, with a

maximum turning diameter of 510 mm and a maximum turning length of 640 mm, comes with 12-station turret, a rigid fixture for stable turning, and a customized EOS screen.

**JH500:** It is a world-class horizontal machining center.

**SD**

**Lakshmi Machine Works Ltd**

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

Hall & Stall: 5/B-107

## Path-Breaking Products from Ace Micromatic Group

**Ace Micromatic Group**

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

Hall & Stall: Hall 5

Ace Micromatic Group Pavillion



Source: Ace Micromatic Group

## UCAM Unveils Manufacturing Solutions

UCAM launched its new line of rotary tables, the 'Q Series', which includes the URQ-180, URQ-200, URQ-250, UDDRI-T300/60LP, USSR-200qTN, ULSP-200qTN, and UMTL-140Mq.

The company also launched the VAJRA-130, the latest version of its 7-axis CNC gear hobbing machine which exemplifies its commitment to producing high-quality, durable, and reliable machines. It is built with the finest materials and rigorously tested to withstand the demands of modern manufacturing. The VAJRA-130 is constructed with high rigidity and is specifically designed to achieve high accuracy, high production output, and high speed.

**SD**

**UCAM Pvt Ltd**

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

Hall & Stall: 1A/A-102



Source: Magic Wand Media

## Jyoti CNC Presents Future Manufacturing Trends

**Jyoti CNC Automation Ltd**

[www.jyoti.co.in](http://www.jyoti.co.in)

Hall & Stall: 5/B-112



Jyoti CNC Automation has launched new revolutionary products for different industry segments, addressing the future trends in manufacturing. Each of the products offers unique technological advantages with respect to reliability, productivity, and precision.

The models include ABX 40, VST 160, HP 5000, and DXG 100 SP.

**SD**

Source: Jyoti CNC Automation Ltd



The following products from the Ace Micromatic Group companies launched yesterday at IMTEX 2023 take innovation to the next level.

**Ace Designers' AMT-i 1500S:** The machine has a B axis capability with a swivel of +/- 120 deg. The roller gear cam on B-axis eliminates backlash for high-rigidity and high-power cutting. Also, high-accuracy B-axis positioning with a minimum Indexing increment of 0.0001° is possible.

**amace Solutions' STLR 400:** It features 410/410/450 mm build volume, dual full scan field lasers with a whopping 1Kw laser power each and many unique, patented features. The machine can be witnessed printing Live on all days of the expo along with multiple industry-specific case studies of AM applications.

**AMG-mIoT:** It is a technology platform that can be leveraged by customers, machine manufacturers, and service providers to drive digital transformation in manufacturing, enabling them to deliver increased productivity and profits. It can acquire data from heterogeneous assets across multiple manufacturers using several technologies.

**Wire Arc Hyb-AM Machine Series:** The 850V Hyb-AM is a cutting-edge addition to AMS product line. It boasts a revolutionary wire Arc type metal deposition system that greatly enhances the speed in the additive process and enables the production of highly precise parts in one setup.

**SD**



## TOUCH PROBING SYSTEMS

# Marposs Introduces Ultra Wideband Technology

**With the Ultra Wideband technology, Marposs can place itself at a higher level of transmission than the standard, offering a new solution unmatched in terms of performance and reliability.**



Marposs Ultra Probing System is the new touch probing system with Ultra Wideband technology, a real revolution for the machine tool industry.

The main objective of the touch probing systems is to optimize the production process of the machine tools, increasing both quality and quantity: the automatic detection of the machines axes' position offers advantages in terms of positioning and control of the workpieces, directly in the machining center and the milling machines. For this reason, the probes are mounted directly on the machine spindle. Therefore, a wireless signal transmission is necessary, typically based on the 2.4 GHz frequency band.

In recent years, there has been an exponential increase in Wi-Fi devices within production plants, including smartphones, tablets, modems, automatic elevators, and other material handling systems. This leads to saturation of the 2.4 GHz band with the inevitable presence of noise and interference, affecting the reliability of wireless probing systems, causing downtime and decreasing the quality of the production process.

## Revolutionizing the machine tool industry

Marposs Ultra Probing System is the new touch probing system with Ultra Wideband technology, a real revolution for the machine tool industry. Its most important

feature is the use of a different transmission range: in Ultra Wideband, no other physical signal can interfere with the Marposs device, which means no interference and no machine downtime. In addition, the system also features many improvements in its design. The anchor is the receiving antenna with an ultra-compact design that makes installation easier and faster. It also has 3 LED indicators. The anchor is connected to the machine's CNC by a wired cable. In all systems, the connection is a weak point due to the sealing in a wet area which depends on proper mounting and then directly on the ability of the operator. Marposs Ultra Probing System introduces a new generation of wireless connectors with an extreme level of sealing due to its design, which does not depend on external operations. The new Marposs APP, which allows system setup and real-time monitoring, combined with diagnostic and service operations, makes the system fast and easy to use. **SD**

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

## TURNING CENTERS

# LMW's Gigaturn 1

LMW Machine Tool Division has introduced an optimal large diameter turning center with a maximum turning diameter of 510 mm and a maximum turning length of 640 mm. The machine comes with 12 stations turret, a rigid fixture for stable turning, and a customized EOS screen. It has a wide chip disposal area for easy maintenance.

The company has established a pan-India network of sales and services that caters to every industrial city in India. The Machine Tool Division provides integrated solutions for various industrial needs in Automobile, Aerospace, Die & Mould, Defence, Pumps & Valves, Railways, Medical Equipment, Forging, General Engineering, etc. LMW also provides automation solutions such as Simple loaders, Gantry systems, and Robots that are tailored to meet customer requirements. **SD**



**Lakshmi Machine Works Ltd**  
www.lmwcnc.com  
Hall-5, Stall: 5/B-107

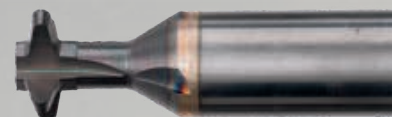
Source: Lakshmi Machine Works Ltd



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# JOBBER EVO SERIES



**2 AXES HORIZONTAL CNC LATHE**

**JE 06 XL/LM  
JE 08 XL/LM**

## FEATURES & SPECIFICATIONS

CAPACITY	JE 06 XL/LM	JE 08 XL/LM
Max. turning diameter	Ø320 mm	
Max. turning length from chuck jaw face *	Ø300 mm	Ø400 mm

\* Considering standard chuck size



**Large Ø550 mm**  
swing over bed diameter



**Heavy duty Hydraulic Turret**

8 Station Standard  
12 Station Optional

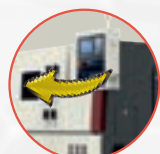
Spindle bearings configured for  
**High Axial & Radial Stiffness**



Spindle Nose	<b>A2-5</b>
Spindle motor power	<b>5.5 kW (cont.) 7.5 kW (15 mins.)</b>

### GUIDEWAY OPTIONS :

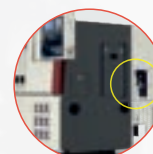
<b>XL</b>	Hardened & ground box type guideways
<b>LM</b>	Linear motion guideways



**Swivelling Console**



**Multiple utility options**



**Easy access to machine accessories & mechanical controls**

