



CONCURRENT SHOW



26 JAN - 1 FEB 2017

SHOW DAILY

The official showdaily of IMTEX 2017

DAY 5 | MONDAY, JANUARY 30, 2017

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Indian Machine Tool
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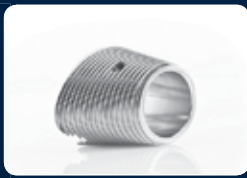
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Smart Indian Choice

PLUS HIGHLIGHTS OF THE DAY

- Presentations on Academia Research Projects
2:30 to 3:30 pm, Hall 4



High-end Machining Solutions

Sustainability through CUMULATIVE INNOVATION!

The success of the manufacturing sector is dependent on the machine tool sector's ability to be self-sustaining.

India still relies on imports to meet its machine tool demands. Recognizing this need and since the past several years, supply in India to India. Seeing India as an important destination for machine tool sales, implicit, the company has partnered with other companies to fulfill the need of the industry.

Value creation through partnerships

An example of one such relationship is the decade old partnership JTEKT has with Micromatic Grinding Technologies (MGT). Masayuki Isaka, Executive Vice-President & Member of the Board JTEKT, says, "By the year 2020, JTEKT had a number of machines installed in India, to provide timely service to our Indian customers, we were looking for a reliable partner in India and joined hands with Micromatic Grinding Technologies (MGT)."



High-end machining solutions in India year by year

High-end Machining Solutions

अभिनव संघर्ष द्वारा स्थिरता

विनिर्माण क्षेत्र की सफलता नवीने उपकरण क्षेत्र के अभिनव संघर्ष से सम्मान प्राप्त होगी।

भारत अभी भी मशीन टूल की वजह से पूरा अपने कारोबार पर निर्भर है। इस खोजने उपकरण क्षेत्र का हमें को ज़रूरी होगा, लेकिन हमें पूरा ने भारत और ज़रूरी करने के लिए, 2020 तक भारत में एक कंपनी बनाने की योजना को शुरू करने के लिए। हमें उपकरण

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持續地透過經驗的累積來進行創新！

製造業的成功取決於工具機廠商們的自我突破的能力。

印度目前截止仍然依靠進口來滿足其工具機的需求。日本公司 JTEKT 集團認識到這樣需求供給的落差，於 20 年前開始已將向印度供應機器、看到印度作為工具機消耗

High-end Machining Solutions

Nachhaltigkeit durch KUMULATIVE INNOVATION

Der Erfolg der Fertigungsindustrie hängt von der Nachhaltigkeit des Werkzeugmaschinensektors ab.

Um sein Werkzeugmaschinen-Umfeld zu erfüllen setzt Indien nach wie vor auf Importe. Das japanische Unternehmen, die JTEKT-Gruppe, erkennt

To be continued



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Source: Rajat Modi/ET

“Our belief is that we need a sustainable long term way to generate added value for our customers and create long term partnerships with customers, employees & channel partners.”

Punit Gupta
Managing Director
Blaser Swisslube India Pvt Ltd

Blaser Swisslube India Pvt Ltd
www.blaser.com
Hall 3A, Stand A119

Metalworking fluid

Liquid Tool Competence
AT WORK

Punit Gupta, Managing Director, Blaser Swisslube India Pvt Ltd shares his views on the way Blaser Swisslube works towards creating a new dimension in productivity and profitability improvement.

The new industrial era puts an emphasis on creating an ecosystem in manufacturing, where every element in manufacturing has to contribute toward higher productivity and process security. This can be witnessed at IMTEX. As a globally active and focused company, we have geared up to collaborate with our customers, and we are excited to take up new projects, execute as partners and generate added value for our customers through Liquid Tool, informs Managing Director, Blaser Swisslube India Pvt Ltd, Punit Gupta.

A new viewpoint

It could be interesting to see how companies could enhance productivity

if every element in manufacturing was looked at with an investment view. Therefore, letting all elements in manufacturing generate returns on investment rather than being looked at as expense. With years of focused engagement with the metal working operations in the manufacturing industry, Blaser Swisslube has developed the concept of Liquid Tool—a new dimension in productivity & profitability. Metalworking fluid here often been neglected and considered as a necessary evil, however, this perspective has been turned around with the Liquid Tool concept. With this concept, there is a possibility of enhancing the tool life by 20–40% and also increasing productivity to the tune of 6–15% by bringing in the holistic view with Liquid Tool and collaboration.

Long-term strategy

“The Government of India wants the manufacturing industry to grow in India and contribute further to the GDP. It is only possible when the manufacturing sector is at a high level of competitiveness. Our strategy is a perfect fit in this direction, and we feel happy that we have a constant working relationship with our customers and not one that ends in a sale,” says Gupta.

Source: Rajat Modi/ET



Visitors at the Blaser Swisslube booth check out the latest products.



IIOT

Source: Rajat Modi/ET

Providing the
RIGHT SUPPORT!

Yamazaki Mazak has been participating at IMTEX for several editions, bringing to the forefront innovation and service that allows their customers stay ahead of the game.

Pramod Kore, General Manager, Service & Tech Support, Yamazaki Mazak India Pvt. Ltd. believes that IMTEX is an ideal platform to showcase innovations, services and communicate key messages to the market. It is for this reason that company follows a philosophy of only participating in shows when they have new innovations or products to showcase.

Mazak has always been a forerunner in innovation. Pramod advises, “We set a precedent in CNC development with the introduction of our MAZATROL programming language in 1981, and since have continued to improve upon this to bring versatility and ease of use to the production floor. Our latest offering, Mazak SmoothX enhances extreme productivity advantages to the most demanding machining operations.”



“Mazak is the only company in the imported category of machines who has the facility to repair all kinds of spindle used on Mazak machines.”

Pramod Kore, General Manager, Service & Tech Support, Yamazaki Mazak India Pvt Ltd

Preparing for the revolution

With the onset of the Industrial Internet of Things (IIoT) leading the way into the next Industrial Revolution, manufacturers must consider the best way to secure the big data that will come from connecting their devices to the Internet.

Mazak SmartBox, a revolutionary launch platform for easy and highly secure entrance into the IIoT, is one of the offerings the company is offering. It is a scalable, end-to-end solution that connects manufacturing equipment, including machines, software and

other devices, to a factory's network and allows the free flow of information to management systems,” informs Pramod.

“At Mazak, we help our customers to gain the competitive advantage through unmatched service support,” shares proudly Pramod. The company knows the high price of down time and hence offers unmatched service and part support to its customers through its wide network. Furthermore, in order to support customers in quick and affordable way Mazak India has setup a spindle repair facility.

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Visit BFW Stall @ IMTEX 2017 (Hall-1A, Stall No. A-102) to know more about
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Global Outlook

"INDIAN ENGINEERS Developing Superb Software"

India and Japan have a history of mutually benefiting industrial collaborations, and the machine tool industry stands to gain from the synergies. Speaking for Japan Machine Tool Builders Association (JMTBA), President Yoji Ishimaru looks to IMTEX 2017 with much hope and optimism.

The Japan Machine Tool Builders Association (JMTBA) is an industrial collective dedicated to taking on scientific and technological challenges, and promoting Japanese machine tool industry globally. Sharing his perspective on attending the 2017 edition of IMTEX, JMTBA President Yoji Ishimaru says, "India has the highest economic growth rate at present, and machine tool demand here is expected to continuously expand in the future. In recent years, the investment of Japanese machine tool manufacturers in India has increased remarkably."

On new technologies

The machine tool industry is in a transformational phase, with new machines and technologies redefining the way production happens globally. "Optimizing the manufacturing processes and services by making full use of Internet of Things (IoT) and Artificial Intelligence (AI) is the focus," declares Ishimaru, describing the machine tool scenario in Japan. Delineating further trends, he mentions Additive Manufacturing

(AM), 3D printers, Automation / unmanned technology utilizing robots, Precision processing technology such as 5-axis machining centers and turning centers among others. "Japanese machine tool

manufacturers are actively working on the development of these new technologies," he adds, "and can provide high performance machines that respond to the development of Indian civil demand."

Mutual gains

Reflecting on the lessons Indian machine tool makers could learn from their Japanese counterparts, Ishimaru puts, "After the Second World War, the machine tool industry in Japan has greatly developed through the cooperation and collaboration of industry, academia and public sector. Japan has also developed world-leading high performance machines and now offers them to manufacturers worldwide."

Japan stands to gain benefit from adopting technology concepts from India, Ishimaru concludes. "In India where IT software technology is highly developed, there are many engineers are working on the development of superb software," he notes, concluding his comments with, "There is a vast possibility to incorporate Indian IT technology for Japanese machine tools."



In recent years, the investment of Japanese machine tool manufacturers in India has increased remarkably."

Japan Machine Tool Builders Association (JMTBA), President Yoji Ishimaru

グローバルな展望

インドのエン 壮大なソフ

インドと日本は昔より産業界で協力しあい相互利益を得ました。工作機械業界もこのシナジー（相乗効果）で上昇することができます。これにて、日本工作機械工業会（JMTBA）の会長石丸洋次はIMTEX 2017に対して希望と楽観傾向をもっています。

● 日本の工作機械工業会（JMTBA）は科学と技術的な挑戦に挑み、日本の工作機械を世界的に応える共同の産業会です。IMTEXの2017版に出展されるJMTBA会長石丸洋次は、「現在、インドの経済成長率が最も高い。なによりも工作機械の需要は将来にも拡大すると期待できます。近年、日本の機械製造業者のインドへの投資は非常に増加しています。」と述べました。

新技術

工作機械業界は現在変換段階に入りました。新しい機械と技術は再び製造業が世界の製造方法を変えています。



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エンジニアズ トを開発する

「製造プロセスとサービスを物事のインターネット (IoT) として人工知能 (AI) で最適化させるのが迫目です。」と石丸様は日本の工作機械シナリオを紹介しました。密加削製造 (AM)、3Dプリンタ、オートメーション/無人ロボットを利用した技術、精密加工技術、例えばアクセルマシンニングセンターやターニングセンターなどを述べました。「日本の工作機械工業会は積極的には新技術の開発に取り組んでいます。」と付け加え、「高性能マシンをインドの市民需要に提供できます。」

互恵

インドの工作機械メーカーは日本の対応相手に争べるものについて石丸様は言いました。「第二次世界大戦後、日本の工作機械業界は産業界・学術と公共部門の間の協力と協調にて大発展しました。日本はまた、世界トップレベルの高性能マシンを開発し、現在世界中に販売しています。」

一方、日本もインドの技術コンセプトを採用して利益を得ると石丸様は認めます。「インドでは高度化したITソフトウェアの技術が開発されていま

ず、多くのエンジニアがスーパーソフトウェアの開発に取り組んでいる」と述べ、最後に「インドのIT技術を日本の工作機械に加える可能性は大きいです。」と述べて締めました。



「近年、日本の機械製造業者のインドへの投資は非常に増加しています。」

日本工作機械工業会 (JMTBA) 会長
石丸洋二様

Japan Machine Tool Builders Association (JMTBA)
<http://www.jmtba.or.jp>
Hall 1B, Booth 105

Workholding Technology

Low Pressure Work Supports

Extra support in hydraulic fixtures prevents sagging and vibration of work piece.

Andreas Maier, Workholding Technology Pvt. Ltd. (AMF) has launched Low Pressure Work Supports for use in hydraulic fixtures. Work supports or support elements are used as an extra support to prevent sagging and vibration of work piece, thus improving the quality of work piece machined. These come with several salient

features: body made out of steel, hardened, support plunger with internal thread, case hardened and ground, element designed for high load capacity with low height, wiper to protect against dirt and coolant, oil supply via external thread or manifold possible and very high support force, ensures optimum manufacturing quality.



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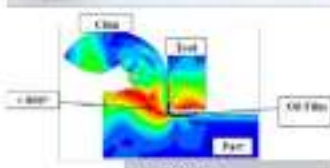
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With this probe, continuous surface scanning and a part check/positioning can be performed simultaneously with the same gauge. The compact sized gauge has been designed for gear grinding applications, but thanks to its extreme versatility can be used on many machine tools, such as sharpeners and machining centres. In fact, it is possible to perform pre and post process checks directly inside the machine. The product was developed in order to gauge parts on machines while still fixed in case rework is required.

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Gedee Weiler Pvt Ltd, a manufacturer of CNC and Conventional lathes, believes that in order to be sustainable, providing customisable solutions for customers is essential.

"IMTEX has always been a platform for global players to showcase some of their latest technologies to the Indian Machine Tool Users," avers K. Subramanian, Vice President - Marketing & Sales, Gedee Weiler Pvt Ltd.

On display

At the show, the company is displaying 11 machines from seven product lines, out of which four are unique machines that are only manufactured in India by Gedee Weiler.

One of the innovative solutions on display at its booth is the Quadra Turn 4-Axis Vertical Lathe, which is exclusively designed to achieve high productivity. It is fitted with two turners that can be simultaneously operated for machining shafts and other chucking parts. "While first tool does the roughing operation, the other tool can follow the roughing tool for the finishing operation. Similarly, threading/grinding at two different places can be done simultaneously using these two turners," informs Subramanian. The foot print of the machine is small requiring minimum floor space, but, can accommodate shafts up to 300 mm.

Promoting skill development

The company is a firm believer promoting talent and employability



'Skill in India' is going to be the most important factor for India's manufacturing success."

**K. Ganapathi Subramanian,
VP-Marketing & Sales,
Gedee Weiler Pvt Ltd**

through Skill Flabouring on a project that they heavily invest in, Subramanian avers. "Projects like 'Skill in India' are important factors for India's manufacturing success. And, we have been contributing to the programme by supplying our high precision manual lathes to leading institutes like IIT, OPJF, etc."



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“For CECIMO, India remains one of the major external sales destinations.”

Filip Geerts, Director General, CECIMO

Global Outlook

FORGING Strong Bonds

18

CECIMO, the European Committee For Cooperation of the Machine Tool Industries, is confident that the mutually beneficial relationship that the EU and India share will only grow as the years progress.

Founded in 1950, CECIMO represents 15 National Associations of machine tool builders of Europe. The association has repeatedly participated at IMTEX and believes that the event has great relevance to the metal cutting industry, not only in India but also worldwide. Speaking on this year's agenda, Filip Geerts, Director General, European Committee for Cooperation of the Machine Tool Industries, asserts, "IMTEX 2017 is the perfect setting to discuss overall challenges, analyse global economic developments and tighten bilateral bonds."

Bilateral learning

India's industrial development makes the country an important trade partner for the European machine tool sector. The Indian industry predominantly sources machine tools from CECIMO countries. India ranks as the third major Asian client, the seventh most important customer and the eighth supplier for CECIMO.



CNCtimes Pvt Ltd
www.cnc-times.com
Hall 3B, Booth A137

Networking Portal

ONE STOP SHOP for B2B solutions

CNCtimes.com, for the first time, is participating at IMTEX 2017 as an exhibitor. The company is excited to be a part of this event as it is in alignment with the company's philosophy of channelizing resources.

IMTEX always brings together industry giants and thought leaders from the manufacturing sector from India and abroad. "Dissemination and exchange of knowledge

takes place here; this is at the core of CNCtimes' vision," avers Niraj M Wankar, Managing Director, CNC Times Pvt Ltd.

Explaining the sentiment further, Wankar voices "CNCtimes.com is a portal that provides machine tool companies with multiple channels for increasing their market visibility on a single platform."

Solutions galore

The website has different sections that make it easier for companies to list, buy, sell, showcase and even knowledge share. For instance, the 'Surplus Corner' helps companies sell their used machines. The 'Outsourcing Corner' allows procurement options for work orders and resources. One

of the more unique features of the portal is the 'Placement Cell' section, which runs on an intelligent algorithm to match the right candidate with the right job opportunity. Companies can post placements, and candidates can apply online as well.

Apart from these extensive sections, the portal also has case studies, technical articles, and blog posts from some of the well-known experts in this industry.

On a concluding note, he advises, "What makes CNCtimes.com different from other sites is that we are using the power of a single platform that will allow B2B companies from the manufacturing space to fulfil their needs and connect with people and organisations from anywhere in the world very easily and quickly."



Red Bull Energy Drink

Source: CNC Times Pvt Ltd

European markets are increasingly interested in Indian machine tools. "The 60 percent rise of machine tools imported by CECIMO countries from India in the period 2013-2015 is almost twice the value than in 2010," shared Geerts.

European Committee For Cooperation of the Machine Tool Industries (CECIMO)
www.cecimo.eu
Hall 1B, Booth I104

Knowledge Session

EXPANDING the Mind!



Bharat Fritz Werner (BFW) concluded with its three-day, invitation-only lecture series on "Leveraging Research for Innovative Manufacturing" on January 29, 2017. Prof Dr D Sengupta, Director, IIT - Bangalore, spoke on the topic of "Artificial Intelligence and Robotics for Manufacturing 4.0". He informed the audience on how Manufacturing 4.0 will transform the industry going forward, and how the artificial intelligence structure will assist in the creation of networks, enabling machines with the capability to learn, reason and act based on the information gathered during an industrial process.

Bharat Fritz Werner (BFW)
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MACHINING TIME COMPARISON

BOLT

253 mm (30mm dia)



The 8 lengths can be performed in 100.1 seconds with the Quattro Turn 350

On conventional CNC Lathe **186 Sec**

On 60W QT CNC Lathe **102 Sec**

- Balanced cutting by two tools at the same cutting point

MACHINING TIME COMPARISON

COUNTER BALANCE

253 mm (30mm dia)



On conventional CNC Lathe **134 Sec**

On 60W QT CNC Lathe **80 Sec**

- Simultaneous CNC machining of ID and OD for thin walled components

QT 350 TM (Optional variant)

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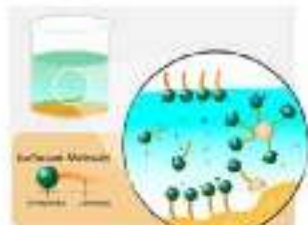
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effect without compromising on the critical factors for industrial applications such as foaming, where bubbles or drops are rapidly generated and need to be stabilised. The benefits include supercleaning effect, no foaming even at high pressures, better surface preparation for rust protection and longer bath life. Benefits include: Reduction of tool wear, optimisation of surface finishes, better release of tramp oils and better product shelf life owing to high bio-stability and stability.



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www.zavenir.com
Hall 3B, Booth B109

Grinding Solutions

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United Grinding Group AG
www.grinding.ch
Hall 3A, Booth B107



GROB Machine Tools India Pvt Ltd

GROB Machine Tools India Pvt Ltd
www.grobgroup.com
Hall 3A, Booth B108

Component Manufacturing

SOLUTIONS for Profitability

For GROB Machine Tools India Pvt Ltd, their customers success is of utmost importance to them. Read on to know how they worked closely with one customer to give them the best technology for their needs.

steve to make every part with the highest quality showcasing engineering excellence and accuracy," he informs.

The company uses GROB Sixaxis machining centres for manufacturing a variety of parts from materials such as stainless steel, aluminium, and titanium and heat resistant super-alloys for the aircraft, radar control & power generation sectors.

More than a machine

Speaking on the machine characteristics, Chopdar notes, "It is fully capable and right machine with simultaneous 5-axis machining that delivers 4-micron positioning accuracy, 2-micron repeatability in a compact and rugged package. The GROB G Series is the ideal machine tool to face the challenges of modern manufacturing."

Chopdar is extremely satisfied with GROB's machine and service, and believes that the solutions provided have enhanced their profitability. He states, "Together with GROB Sixaxis machining centres and AZAD process expertise, our company's components are earmarked for excellence, we emerge as a supplier with innovative and productive solutions to various OEM requirements across the globe."

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(ALL FIELDS ARE MANDATORY)

1. Which organization has installed highest number of Bearing Automations and Marking Systems Globally?
2. How many States does India have?

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HX Series
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3000 sqm