



The official showdaily of IMTEX 2017

**DAY 5** | MONDAY, JANUARY 30, 2017











## **G-Series**

## Precision at the highest level



#### **GROB Machine Tools India Pvt. Ltd.**

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#### A promising future with the G-series

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The proven 5-axis simultaneous technology with horizontal spindle position enables you to machine parts of various sizes and materials in a flexible and failure-free way while offering maximum stability of the machine.

Fast chip-to-chip times and the innovative further development of our spindle technology guarantee a high economic efficiency and productivity.

The GROB G-series – for the most versatile machining possibilities.



























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PUBLISHED BY









#### **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. Japanese company, the JTEKT group, recognized this need gap and since the past several years has supplied machines to India. Seeing India as an important destination for machine tool consumption, the company has partnered with other companies to fulfil 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). Masakazu Isaka, Executive Vice President & Member of the Board, JTEKT, says, "By the year 2000, 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)."



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#### High-end Machining Solutions

#### अभिनव संचय द्वारा स्थिरता

विनिर्माण क्षेत्र की सफलता मशीनी उपकरण क्षेत्र के आत्मिर्भर होने की क्षमता पर निर्भर है |

भारत अभी भी मशीनी उपरण की मांगो को पूरा करने के लिए आयात पर निर्भर है। इस मशीनी उपकरण की यह कमी को जापानी कंपनी, जेटीइकेटी गृप ने परखा और उमे पूरा करने के लिए पिछले कई सालों से यह कंपनी भारत को मशीन की आपूर्ति कर रही है। मशीनी उपकरण High-end Machining Solutions

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製造業的成功取決於工具機機部門的自 我維護的能力。

● 印度目前為止仍然依靠進口來 滿足其工具機的需求。日本公司 JTEKT集團認識到這樣需求與供給的 差異,並且自幾年前開始已經向印度 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 Bedarf zu erfüllen, setzt Indien nach wie vor auf Importe. Das Japanische Unternehmen, die JTEKT-Gruppe, erkannten

To be continued on 6







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The GL4E is the company's new high-end CNC Angular Wheel Head Grinding Machine unveiled at IMTEX 2017

Since then, the companies began a joint venture-Toyoda Micromatic Machinery India Pvt Ltd-to manufacture the CNC Cam lobe Grinder GC20M-25S to cater to needs of the two-wheeler sector. "The product though made in India for the Indian market has also been supplied to markets in Thailand and Indonesia." informs Mamoru Nagasawa, Managing Director, Toyoda Micromatic Machinery India Pvt Ltd.

#### Home-grown technologies

Another innovation from the JV company is the high-end CNC Angular Wheel Head Grinding Machine GL4E that has been launched at IMTEX 2017. The machine has been developed considering the growing need for flexibility to accommodate fast change and smaller space requirements.

"JTEKT and TMI understands Indian Customer's need for high end machines better and will start manufacturing in India accordingly. Thus, we developed GL4E in India. Except the grinding wheel Head of GL4E, which have some patentrelated manufacturing restrictions, all its other components are made in India," informs NK Dhand, Chairman,

It is not only the machine tools, the JTEKT Group, as a whole, is in-line with the 'Make in India campaign' with several of its other companies that manufacture in India and supply to global markets.

के उपभोक्ता के स्वरूप में भारत को एक अहम स्थल जानकर इस उद्योग की ज़रूरतों को पुरा करने के लिए इस कंपनी ने अन्य कंपनियों के माथ भागीदारी की है।

#### भागीदारी के माध्यम से मूल्य सृजनः

ऐसे एक रिश्ते का उत्तम उदाहरण याने जेटीइकेटी की माइक्रोमॅटीक ग्राइंडींग टेक्नोलोजीझ (एमजीटी) के साथ की हुई दशक पुरानी भागीदारी। जेटीइकेटी के कार्यकारी उपाध्यक्ष एवं वोर्ड के सदस्य, मसाकाझ् इसाका कहते हैं, "वर्ष 2000 तक जेटीइकेटी ने भारत में कई मशीन विठाएं । हमारे भारतीय ग्राहकों को समयसर सेवा देने के लिए हमें भारत से एक विश्वसनीय भागीदार की तलाश थी और हमने माइक्रोमॅटीक ग्राइंडींग टेक्नोलोजीझ (एमजीटी) के साथ हाथ मिलाया ।"

तव से कंपनी ने दोपहिया क्षेत्र की सीओनसी कॅम लोब गाईन्डर जीसी20अम25अस इस ज़रूरत को पूरा करने के लिए टोयोडा माइक्रोमॅटीक मशीनरी इन्डिया पा लि नामक संयुक्त उद्यम का आरंभ किया।"उत्पाद हालांकि भारतीय वाज़ार के लिए भारत में बनाए गए हैं, लेकिन इनकी थाईलेंड और इंडोनेशिया के वाजारों में भी आपूर्ति की गई है," टोयोडा माइक्रोमॅटीक मशीनरी इन्डिया प्रा लि के प्रबंध निदेशक ममोरू नगासावा ने जानकारी देते हुए कहा ।

#### देसी प्रौद्योगिकीयाँ

इस संयुक्त उद्यम ने इमटेक्स 2017 में और एक नवीनता का प्रक्षेपण किया और वह है उच्चतम सीएनसी ॲन्यलर व्हील हेड गाइन्डिंग मशीन जीएल4इ।इस मशीन को तेजी से परिवर्तन को समायोजित करनेवाला लचीलापन तथा कम अंतरिक्ष की जरूरत की बढ़ती मांग को ध्यान में रखते हुए बनाया गया है।

"जेटीइकेटी और टीओमआय भारतीय ग्राहकों की उच्चकक्षा मशीन की मांगों को बहेतर समझतें हैं और भारत में तदनुसार विनिर्माण का आरंभ किया जाएगा। इसलिए हमने जीओल4इ को भारत में वनाया। जीओल4इ के पीस पहिया सिर के अलावा, जिसमें पेटेंट संबंधी निर्माण प्रतिबंध है, अन्य सभी घटकों को भारत में बनाया गया," अमजीटी के अध्यक्ष, अन के धंड ने वताया।

केवल मशीनी उपकरण ही नहीं, विल्क जेटीइकेटी गुप, संपूर्ण स्वरूप से अपनी अन्य कंपनीयों के साथ, जो भारत में विनिर्माण कर वैश्विक बाज़ारों को आपूर्ति करती हैं, सभी 'मेक इन इन्डिया मुहिम' के साथ चल रहें है।

的重要使用國,該日本公司並與其他 公司謀求合作,以滿足此一領域的工 具機需求

#### 通過合作創造出更大的價值

一個實際這樣的例子是在已經有十 年長期合作的JTEKT與MICROMATIC 關於研磨技術(MGT)。 JTEKT執. 行副總裁兼董事會成員MASAKAZU ISAKA說: "到了2000年, JTEKT 在印度直接安裝了機器,並為印 度客戶提供及時的服務,我們 在印度尋找可靠的通路夥伴 GRINDING 與MICROMATIC TECHNOLOGIES(MGT)攜手合

從那時起,公司開始成立了一家合 資企業 - 豐田MICROMATIC機械印 度有限公司 - 製造CNC凸輪研磨機 GC20M-25S,以滿足兩輪機車部 門的生產需求。 豐田MICROMATIC 機械印度有限公司董事總經理 MAMORU NAGASAWA告訴記者: 原先供應印度市場生產的印度生產的 產品,也開始供應給泰國和印度尼西 亞的市場。

#### 自主技術

合資公司的另一個創新例子則是,已 經在IMTEX 2017年由JV公司所推出的 高端數控角輪頭CNC磨床機台系列 GL4E。該車床已經開發,考慮到靈活性的不斷增長的需求,開發出適應 更快速變化和更小的擺放空間雲求 "JTEKT和TMI了解印度客戶對高端機 器的需求與日俱增,並且相應地將 盟始在印度本地生產。 因此,我們 在印度開發GI 4F系列。 除了GI 4F 的砂輪頭,有一些專利相關的製造上 限制,所有其他零組件都是在印度製 诰"MGT主席NK DHAND談到。 我們所生產的已經不僅僅是工具機 本身, JTEKT集團就是一個連動的整 體,與印度製造採取行動的幾個其他 公司在印度製造和供應到全球市場是 採取一致步伐的。

diese Marktlücke und seit den vergangenen Jahren, haben Maschinen nach Indien geliefert. Indem Indien als wichtiges Ziel für Werkzeugmaschinenverbrauch gesehen wird, hat das Unternehmen mit anderen Unternehmen zusammengearbeitet, um die Marktlücke der Industrie zu erfüllen.

#### Wertschöpfung durch Partnerschaften

Ein Beispiel für eine solche Beziehung ist die jahrzehnte alte Partnerschaft JTEKT hat mit "Micromatic Grinding Technologies (MGT)". Masakazu Isaka, Vorstandsmitglied, JTEKT sagt: "Bis zum 2000 hatte JTEKT eine Reihe von Maschinen in Indien installiert, um unseren indischen Kunden rechtzeitig. zu bedienen, suchten wir einen zuverlässigen Partner in Indien und sind mit Micromatic Grinding Technologies (MGT) zusammengekommen. "

Seitdem haben die Unternehmen ein Joint Venture-Toyoda Micromatic Machinery India Pvt Ltd gegründet. Das Joint Venture diente der Herstellung der CNC-Nockenwellenschleifer GC20M-25S, um die Bedürfnisse der Zwei-Räder-Sektor gerecht zu werden. "Das Produkt, das in Indien für den indischen Markt hergestellt wurde, wurde aber auch an die Märkte in Thailand und Indonesien geliefert", erklärt Mamoru Nagasawa, Geschäftsführer, Toyoda Micromatic Machinery India Pvt Ltd.

#### Heimische Technologien

Eine weitere Innovation der JV-Firma ist die CNC-Winkelschleifmaschine GL4E die auf der IMTEX 2017 vorgestellt wurde. Die Maschine wurde unter Berücksichtigung des wachsenden Bedarfs an Flexibilität entwickelt, um schnellen Wechsel und kleineren Platzanforderungen gerecht zu werden.

'JTEKT und TMI verstehen den Bedarf des indischen Kunden für High-End-Maschinen und werden mit der Fertigung in Indien entsprechend anfangen. So entwickelten wir GL4F in Indien. Außer dem Schleifscheiben-Kopf von GL4E, die einige patentbezogene Herstellungsbeschränkungen haben, werden alle anderen Komponenten in Indien hergestellt ", erklärt NK Dhand, Chairman, MGT

Nicht nur die Werkzeugmaschinen, sondern auch die JTEKT-Gruppe stehen in Finkland mit der Kampagne "Make in India" mit mehreren anderen Unternehmen, die in Indien produzieren und auf globalen Märkten beliefern







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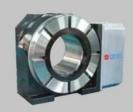


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### Liquid Tool Competence **AT WORK**

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

Source: Magic Wand Media In-



if every element in manufacturing was looked at with an investment view. Thereby, 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 fluids have 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 8-15% by bringing in the holistic viewwith 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," avers Gupta

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



### 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 I td. 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 1981, and since have continued to improve upon this to bring versatility and ease of use to the production floor. Our latest offering Mazatrol 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, endto-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.

## SOLUTIONS



#### **SPECIAL MACHINES**



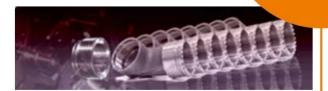
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**Global Outlook** 

## **"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," divulges 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



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

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

Remarking on the lessons Indian machine tool makers could learn from their Japanese counterparts, Ishimaruputs, "Afterthe 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."

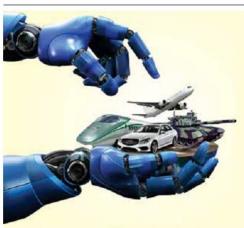
Japan could in turn benefit from adopting technology concepts from India, Ishimaru concedes. "In India where IT software technology is highly developed, there are many engineers are working on the development of superb software," he notes, concluding his comments with, "There is a vast possibility to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

グローバル的な展望

## **インドのエン** 壮大なソフ

#### 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 は再定義生産が世界の製造方法 を変えています。



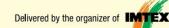
#### **Empower Manufacturing**

**Experience Delhi Machine Tool Expo 2017** 











Indian Machine Tool Manufacturers' Association



## <sup>'</sup>**ジニアズ** トをを開発する

「製造プロセスとサービスを物事のインターネット(IOT) そして人工知能(AI)で最適 化させるのが注目です。」と 石丸様は日本の工作機械シナ リオを紹介しました。

添加剤製造(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5アクスルマシニングセンタ等を述べました。「日本の工作機械工業会は積極的に新技術の

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 日本の対応相手に学べるもの について石丸様は言いました・

た: 「第二次世界大戦後、日本の 工作機械業界は産業界、学界 と公共部門の間の協力と協調

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 中に提供しています。」

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

す。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技術を日本の作機械に加える可能性はあました。



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.

Zero-Point Clamping System

Low Pressure Work Support

Andreas Maier Workholding Technology Pvt Ltd www.amf.de Hall 2B, Booth A103



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Lubricants

#### **CUTTING FLUIDS**

#### for Titanium

## Machining of titanium alloys needs cutting fluids with some high lubricating properties.

The technical characteristics of titanium make it ideal for modern applications in the bio-medical to aerospace sectors. But titanium and its alloys have a low thermal conductivity, and they do not absorb heat during machining. So the

cutting fluids require high-cooling properties to evacuate the heat. Stabilis 9230 from Motultech is a high performance fine emulsion soluble concentrate that has a right quantity of base oil and high performance complex ester. It has been especially designed for specialised machining operations and demanding markets such as the aeronautical one.

This product is answering the more demanding HSE legislation. It is free of: bactericide, isothiasolinone, DEA, chlorine, nitrite, sulfur, phosphorus additive, formaldehyde and formaldehyde releaser.

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.

Motultech
www.motul.com
Hall 3C, Booth C104



Metrology

## When Touch is not **ENOUGH**

#### The first gauge that is able to merge technical knowhow in precision measurement and touch technology.

The combination of technical know-how in machine gauging and touch technology has produced the G25 probe—which is able to do both part surface scanning and touch for part positioning and measurement.

With this probe a continuous surface scanning and a part check/positioning can be performed simultaneously with the same gauge. Source: Marposs India PytLtd 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 fixtured in case rework is required.

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- > Thermal behaviour of Spindle and Linear axes
- > Laser system and ball bar for machine calibration
- Performance evaluation test rigs
- > Spindle assembly as per ISO standard
- Guideway Cover (2g, 120m/min)
- Electrohydraulic exciter Machine Dynamic analysis
- > Latest international standards on machine testing







www.amttf.in | director@amttf.in



## 2<sup>nd</sup> Symposium on SMART MANUFACTURING

"Evolving the Factory of the Future"

24-25 February 2017
BIEC Conference Centre, Bangalore

#### **Presentation Topics**

- > Industry 4.0 'Future of Manufacturing'
- ➤ Industrial Internet of Things (IIoT)
- > Enterprise Manufacturing Intelligence Big Data analytics, Data acquisition, Data Security etc.
- ➤ Connected Factory
- > Manufacturing Plant Integration
- > Pneumatics on the Network
- > Smart & Cost Effective Automation
- > Smart Logistics
- > Smart Maintenance

#### **Event Highlights**

- > Interactive sessions, case studies and panel discussions by renowned industry experts
- > **AUTOMATION BUZZ** A display of automation components & systems, Robots, Vision systems, Actuators, Drives and Controllers, software and a host of automation solutions in manufacturing



For more details, contact:

Mr. Abhishek on 080- 66246829 / 6665 Mobile: +91 9886611007 or Email : abhishek@imtma.in

Registration for participation must be made <u>Online only.</u>
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**CNC Lathes** 

#### **INNOVATION** is key to Success

Key to growth and success in customising solutions as per customer's process specific requirements.

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.



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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 Quattro Turn 4-Axis Vertical Lathe, which is exclusively designed to achieve high productivity. It is fitted with two turrets 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/grooving at two different places can be done simultaneously using these two turrets," informs Subramanian. The foot print of the machine is small requiring minimum floor space, but can accommodate shafts up to 500 mm.

#### Promoting skill development

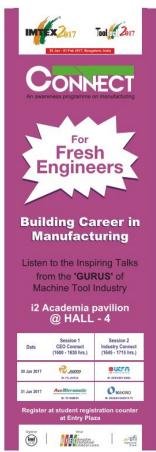
The company is a firm believer promoting talent and employability



'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. Elaborating on a project that they heavily invest in, Subramanian voices, "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, CIPET, etc."



#### **PMT Machines Limited**

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Smooth Process Support Software can integrate your machines and processes for higher productivity





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- Essential functions for increased ease of programming









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remains one of the major external sales' destinations."

Filip Geerts, Director General, CECIMO

Global Outlook

#### **FORGING**

## Strong **Bonds**

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. represents15NationalAssociations 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.



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 exchange of knowledge

Hard Part machining seminar

Source: CNC Times Pvt Ltd

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

Explaining the sentiment further, Wanikar 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, will 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.

CNCtimes.com is the right place for companies who want to

simplify their marketing

process and reach their

customers." Niraj M Wanikar,

Managing Director,

**CNC Times Pvt Ltd** 

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."

Knowledge Session

#### **EXPANDING** the Mind!



Bharat Fritz Werner (BEW) concluded with its threeday, invitation only lecture series on 'Leveraging Research for Innovative Manufacturing' on January 29, 2017. Prof Dr D Sadagopan, Director, IIIT - 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** www.bfwindia.com Hall 1A, Booth A102

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

**European Committee** For Cooperation of the Machine Tool Industries

in 2010," shared Greets.

(CECIMO) www.www.cecimo.eu Hall 1B, Booth I104







## IF TIME IS MONEY

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The revolutionary **4 AXIS CNC LATHE** is a dream come true. It turns, drills and taps. All at half the time!



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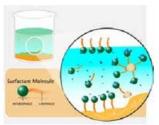
GEDEE WEILER



#### Metal Working Fluids

#### Cleaning Without **COMPROMISE**

HAKUPUR cleaners from Zavenir Daubert harness the power of multi-functional power surfactants (combination of non-ionic and cationic surfactants) to deterge versatile organic and inorganic soils. The dynamics of this range of cleaners induces a superb cleaning



Source: Zavenir Daubert India Pvt Ltd

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 superb cleaning 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.

Zavenir Daubert India Pvt Ltd www.zavenir.com

## Hall 3B, Booth B109

#### **Grinding Solutions**

#### Integrated dressing with **WIRE EROSION**

Fritz Studer AG brings a brand new dressing device to the market, which uses the wire erosion principle and is completely integrated into the grinding machine and its control system. With STUDER-WireDress, The grinding wheel never has to be removed for dressing. Thanks to the high proportion of grain space, the wheel is very free cutting. This allows much more grinding oil to enter the grinding slot, enabling a high feed with



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

less workpiece deflection. Very complex contours can also be dressed at shorter intervals. As the user can fully utilise the advantages of metal-bonded grinding wheels during rough and fine grinding, the dressing system pays for itself in less than a year. Feeds of 15 to 25 mm/min can be achieved when dressing a typical metal bond.



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.

GROB machines are extremely beneficial, especially when profiling complex areas of the component, reducing manufacturing costs making our prices economical to our customers," declares Rakesh Chopdar, Owner & Managing Director, AZAD Engineering Pvt Ltd. "As a precision component manufacturing company,

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

The company uses GROB 5-axis 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 voices, "It is fully capable and rigid machine with simultaneous 5-axes 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 5-axes 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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- High precision and high accuracy machine for machining complex components.

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VISIT US @ HALL: 2A STALL: A106













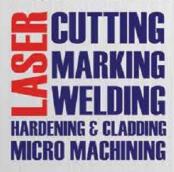
Winners will be selected through a DAILY LUCKY DRAW at 4:30 PM Hall No. 2A Booth No. A112



### PLEASE FILL IN YOUR DETAILS AND ANSWERS BELOW

1. Which organization has installed highest number of Bearing Automations and Marking Systems Globally?

2. How many States does India have?



(ALL FIELDS ARE MANDATORY)

NAME :	
DESIGNATION:	
COMPANY NAME:	
LOCATION:	<u></u>
EMAIL ID:	
CONTACT NO:	
ANSWER 1:	
ANSWER 2:	



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Hall No. 4, Stall No. C125

























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