



26 JAN - 1 FEB 2017

# SHOW DAILY

The official showdaily of **IMTEX 2017**  
**DAY 6** | TUESDAY, JANUARY 31, 2017

For Private Circulation Only

**PUBLISHED BY**  
  
Indian Machine Tool  
Manufacturers' Association

**VENUE**  
 Bangalore  
International  
Exhibition Centre

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## IMTEX

26.01. - 01.02.2017,  
Bangalore, Hall 3A,  
Booth B107



# Solutions for precision machining

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Indian Machine Tool Manufacturers' Association

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Bangalore International Exhibition Centre



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More details on: Page 26 | +91 9925031495 | mkt@sltl.com

### Multiple Solutions

## Innovative Solutions for the GLOBAL MARKET

UCAM with its two emerging verticals Nimble Electric and Nimble Machines are aligned to cater to and support the machine tool through their high precision niche product offerings. Read on to know more about the company's outlook on success and technology.

UK UCAM understands that the need of the hour for customer is the continuous reduction of 'Cost per Component'. Industrial Internet of things' and matching Analytics, as applied to Machine Tools, will make a significant impact in helping customers overcome present day barriers and reduce costs steeply," asserts Managing Director, UCAM Pvt Ltd, Indradev Babu. It is for this reason that company has a range of high-end and high precision products for 4th - and 5th axis Operations

### Innovation for need

UCAM's hugely successful products are a natural result of its capacity for high end innovation. Babu informs, "Most



UCAM India Pvt Ltd  
www.ucamind.com  
Hall 2A, Booth A102



Innovative Solutions showcased by UCAM

Source: Magic Wand Media Inc

### Multiple Solutions

## Innovative Lösungen für den INTERNATIONALEN MARKT

UCAM, mit Ihren zwei neuen Technologien „Nimble Electric“ und „Nimble Machines“ sind vorbereitet, die Werkzeugindustrie mit Ihrem hochpräzisen Nischenprodukt zu unterstützen. Um mehr zu erfahren lesen Sie weiter.

Es ist UCAM bewusst dass heutzutage die Wünsche der Kunde sind Reduzierung der Kosten pro Bauteil, industrielle Internet of Things und Analytik in Bezug auf der Werkzeugindustrie. Die verfügbare Lösungen werden ein große Auswirkung auf der Kosten und Verminderung der Hindernisse in der Industrie führen, sagt Geschäftsführer Indradev Babu, UCAM Pvt. Ltd. Für diese Gründe hat die Firma eine Reihe von Hochleistung und hochpräzise Produkte für 4. und 5. Achse Bearbeitung.

### Innovation für den Bedarf

Der Erfolg der UCAM Produkte ist ein

To be continued on 6 ▶

### Multiple Solutions

## वैश्विक बाज़ार के लिए अभिनव उपाय

यूसीएएम अपनी नीबल इलेक्ट्रिक एवं नीबल मशीन्स, इन दो उभरती हुई लंबस्वरूप उच्चपरिशुद्ध विशिष्ट उत्पाद के माध्यम से मशीनी उपकरण की सेवा में तथा उसके समर्थन हेतु गठबंधन कर रही है. कंपनी का सफलता एवं प्रौद्योगिकी के प्रति दृष्टिकोण जानने के लिए आगे पढ़िए।

यूसीएम इस बात से अवगत है कि ग्राहकों के लिए 'प्रति घटक मूल्य' में घटौती करना यह समय की मांग

### Multiple Solutions

## 全球市場的創新解決方案

UCAM及其兩個新興垂直整合產品供應鏈NIMBLE ELECTRIC和NIMBLE MACHINES以其通過驗證的高精密度的利基產品來提供工具機的匹配和相關支援。透過閱讀，讓我們來了解更多關於公司的成功和技術的展望。

UCAM公司了解到，客戶對每小時的時間成本需求是“單位零組件成本”的持續降低。如果工業製造採

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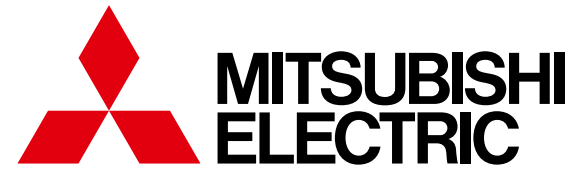


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## FEATURES

- Easy access to Robot rear side by enlarging the area (J1 Axis)
- No Blind area behind the Robot

## BENEFITS

- Short cut motion realises shortening cycle time
- Increase flexibility for Robot layout
- Increased Space Efficiency



## APPLICATIONS

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- Material Handling • Dimensional Measurement (Gauging) • Assembly (Component Assembly)
- Automated Screw Assembly

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[www.mitsubishi.in/fa/factory-automation.php](http://www.mitsubishi.in/fa/factory-automation.php)

Contact Person: Madhusudhanan.N.S  
Mob.No: +91 95 91 92 18 26





“The machines we manufacture are universal and can be fine tuned with options, attachments, automation and tooling up, to meet the requirements of various segments.”

**Indradev Babu**  
Managing Director  
UCAM Pvt Ltd



Source: Magic Wand Media Inc

है। “मशीनी उपकरण के संदर्भ में चीजों का औद्योगिक अंतराजाल तथा अनुकूल विश्लेषणविद्या को लागू करने का गहरा प्रभाव ग्राहकों की वर्तमान दिनों की बाधा दूर करने में तथा तेज़ी से लागत कम करने पर पड़ेगा और इससे ग्राहकों की मदद हो पाएगी।” यूसीएएम प्रा लि के प्रबंध निदेशक इन्देव बाबुने दृढ़तापूर्वक कहा। इसी वजह से कंपनी ने 45वीं अक्ष संचालन में उच्च लक्ष्य तथा उच्चपरिशुद्धता के उत्पादों की एक श्रृंखला रखी है।

### आवश्यकता के लिए नवीनीकरण:

यूसीएम के वेहद सफल उत्पाद अपने उच्चलक्ष्य नवाचार क्षमता का एक स्वाभाविक परिणाम है। बाबु ने जानकारी देते हुए कहा, “हमारा विकास ज़्यादातर हमारे वफादार ग्राहकों के लिए, भारत के तथा विदेश के मशीनी उपकरण निर्माणकर्ताओं के लिए है, जिन्होंने हमें उनके लिए रचना, विकास तथा आपूर्ति करने का अवसर दिया। आज हमारे कई विशेष उत्पाद यूरोपीयन मशीनी उपकरण निर्माणकर्ताओं के लिए मापदंड बन चुके हैं।”

बाबु ने आगे बताया, “डायरेक्ट ड्राइव टिल्टिंग रोटर क्लव यह यूरोपीयन मशीनी उपकरण निर्माणकर्ताओं के ग्राहकों के उपाय के विकास का एक अभिनव उदाहरण है। हमें इस बात का गर्व है कि प्रदर्शन तथा गुणवत्ता के मामले में उनकी उच्च अपेक्षाओं को पूरा करने में हम सक्षम रह पाए। यह डायरेक्ट ड्राइव टिल्टिंग रोटर क्लव निंबल इलेक्ट्रीक के टोक मोटर्स के साथ बनाया गया है। इस उत्पाद की विशेषता यह है कि इसका इस्तमाल इसे 45वीं अक्ष टिल्टिंग टेबल पर तथा मौजूदा 3 अक्ष मशीन पर एक ‘बढ़ती’ के रूप में किया जा सकता है तथा 5 अक्ष मशीनों के में एकीकृत भी किया जा सकता है।

### नई रचनाएँ:

यूसीएम की नई लंबस्वरूप निंबल मशीन ने नए उत्पादों की एक श्रृंखला लाई है, जैसे कि अेनओअेच 250 की सीअेनसी गीअर होवींग मशीन। इस मशीन को ‘प्रति भाग अति कम लागत’ को वास्तविकता में लाकर इस तरह विकसित किया गया है कि जिससे ग्राहकों को अपने दाम का मूल्य मिले।

यह कंपनी बहुमुखी अनुसंधान एवं विकास क्षमता से सुसज्ज है और अपना रचना विभाग भी है। निंबल मशीन तथा निंबल इलेक्ट्रीक के उत्पादोंसहित अन्य उत्पादों की श्रृंखला वास्तव में ‘मेक इन इंडिया’ की भावना को सच कर रही है।

उपकरणों और मशीनों के विकास के लिए, निंबल इलेक्ट्रीक ने नए उत्पादों की एक श्रृंखला लाई है, जैसे कि अेनओअेच 250 की सीअेनसी गीअर होवींग मशीन। इस मशीन को ‘प्रति भाग अति कम लागत’ को वास्तविकता में लाकर इस तरह विकसित किया गया है कि जिससे ग्राहकों को अपने दाम का मूल्य मिले।

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From page 1 ▶

of our developments are for our loyal customers, machine tool builders in India and abroad, who have given us the opportunity to design, develop and supply to them. Today many of our special products have become standards for European Machine Tool Builders.” Babu further adds, “The new ‘Direct Drive Tilting Rotary Table’ is an example of innovation for developing a solution for their European machine tool building customer. We are proud to be able to meet their high expectations in terms of performance and quality. This Direct Drive Tilting Rotary Table is built with Torque Motors from Nimble Electric. The specialty of this product is that it can be used as an ‘add on’, on the 4th & 5th axis tilting table, on an existing 3-axis machine, or it can be directly integrated into the 5-axis machines”.

### New Designs

UCAM’s new vertical—Nimble Machines—has also brought about a new product line, the NOAH 250 Series CNC Gear Hobbing Machine. The machine has been developed to deliver value to the customer by making ‘lowest cost per part’ a reality.

The company is equipped with versatile R&D capability and has an in-house Design Department. Its range of products, including those of Nimble Machines and Nimble Electric are really true to the spirit of ‘Make in India’.

Ergebnis der hochgradigen Innovationen. Babu sagt, „Fast alle unsere Entwicklungen sind für unsere loyale Kunden, Werkzeug Hersteller in Indien und im Ausland. Die Kunden haben uns die Möglichkeit gegeben neue Designs zu entwickeln und zu liefern. Heute sind viele unsere Sonderprodukte Standards für die europäische Werkzeug Industrie.“

Zusätzlich sagt Babu, „Die neue „Direct Drive Tilting Rotary Table“ ist ein Beispiel der Innovation die für die europäische Werkzeugindustrie entwickelt wurde. Wir sind drauf stolz dass wir hohe Erwartungen an der Leistung und das Qualität liefern können. Die Direct Drive Tilting Rotary Table wird mit Drehmomentmotoren von Nimble Electric gebaut. Die Besonderheit dieses Produktes ist, dass es als “add on”, auf dem 4-ten und 5-achsigen Kipptisch, auf einer bestehenden 3-Achs-Maschine oder direkt in die 5-Achs-Maschinen integriert werden kann.“

### Neue Designs

UCAMs neue Vertikal-Nimble Maschine hat auch zu einer neuen Produktlinie eingeführt, der CNC-Verzahnungsmaschine aus der NOAH 250 Serie. Die Maschine wurde entwickelt, um den Kunden einer „geringste Kosten pro Bauteil“ Möglichkeit zu bieten. Das Unternehmen ist mit vielfältigen F & E-Fähigkeiten ausgestattet und verfügt über eine eigene Designabteilung. Die Produktpalette, einschließlich der von Nimble Maschinen und Nimble Electric, entspricht wirklich dem Geist von ‘Make in India’.



Increases Productivity & Profitability,  
Cost effectively.

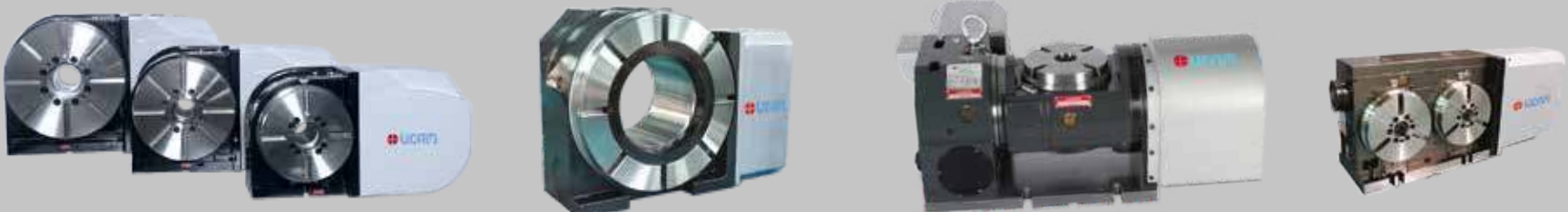
# Tilting Rotary Table



**Made in India. For the World.**

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## 4th & 5th Axis Solutions



Visit us at Hall 2A, A-102 to explore more.





**Ace Micromatic Group unveiled its latest range of new machines in the presence of industry stalwarts**

**Laser Technologies**

# The Revolution of ROTATION

**Bearings play a critical and major role in our daily lives, but most of us are unaware of this. Here's an overview of their importance and omnipresence...**



**Sahajanand Laser Technology Ltd**  
www.sltl.com  
Hall 2A, Booth A112

Bearings are used in most products that we take for granted. For instance, they cut down friction resulting in the smooth acceleration of automobiles, and the silent running of our ceiling fans. The anti-friction bearing has played a significant role in enhancing the mobility of society in the last century.

Bearings are available in a wide variety and specially designed to handle radial loads, thrust load, or a combination of the two and are used in sectors such as automobiles, aerospace, railways, and many more.

**India overview**

The first manufacturing unit of bearing industry in India was founded in 1955, since then the industry has witnessed remarkable growth. In 2015, the demand for bearings was estimated to be about 48 percent and 52 percent for the automotive and industrial sectors, respectively.

World over, there are approximately 2,00,000 types of bearings available, and from those around 30,000 varieties are used in the Indian manufacturing industry. The demand though high is a stark contrast to the amount of bearing

varieties being produced in the country (650-700 varieties), leaving no other option other than to import.

Owing to the demand, one of the challenges faced by the industry is the production of forged or fake products, price rise in raw materials, and cost issues from Indian suppliers.

**Laser solutions for bearings**

To combat these challenges, SLTL has introduced customised technologies for the bearing industry encompassing marking, cone measurement, oil slusher system and others. These solutions can work with bearings of any type, width and diameter. The rotary and x-y solutions are handy while marking the larger bearings. The dual laser marking system allows for 3G marking with a vision system as well as marking on the flinger shield. The system is also capable of simultaneously marking and imprinting a brand name and serial number with the indexing mechanism enabling reduced downtime and increased productivity. The company integrates the Poka Yoke mechanism, so that bearings that are used in all applications can be easily identified.

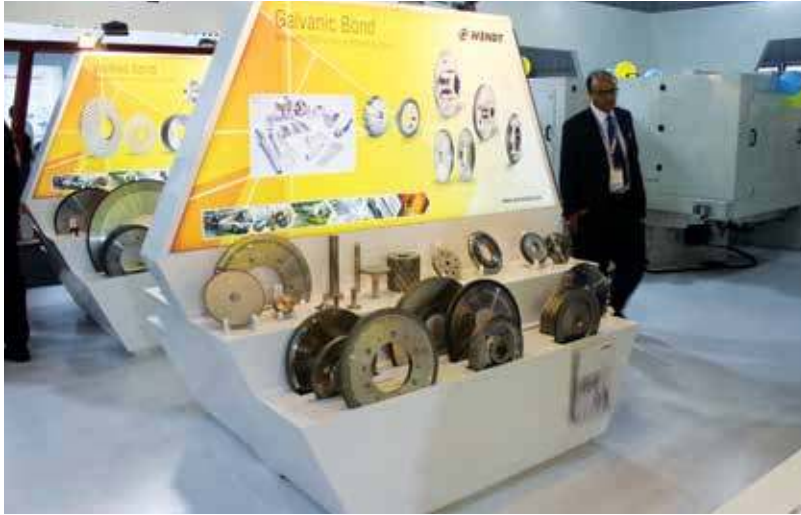


CNC Grinding

# PRECISION, Perfected

A leading manufacturer of Super Abrasive Grinding wheels (Diamond and Cubic Boron Nitride), Special Purpose Grinding Machines and tools, Wendt India boasts of functionally superior Products & Services for Grinding and Machining Hard-To-Process Materials. Their booth at IMTEX 2017 featured a range of grinding wheels and tools, besides some new CNC machines for precision grinding, profiling, dressing, and honing applications. Some of the new machines unveiled at the show have already been ordered by international buyers.

Source: Magic Wand Media Inc



Wendt India's trusted range of super abrasive grinding wheels and tools on display at their booth at IMTEX 2017. The company offers functionally superior Products & Services for Grinding and Machining Hard-To-Process Materials.



Masayuki Matsuoka, Dept Head/Sr General Manager, Toyota Tsusho unveiling the Twin Hone, a precision CNC twin spindle vertical honing machine. This 5-axis machine with Siemens 828D control system is based on MS fabricated structure and features a belt driven/integral honing spindle with adjustable spindle speed.




Precision profiling & dressing machine Precidress was unveiled by Jeffery S Wirth, Manager - Vitrified Products, Continental Diamond Tool (CDT). Designed for dressing and profiling of straight and convex diamond or CBN grinding wheels mounted on wheel pack, the WDM series machines have recently been booked by an Austrian and Chinese company.




Precigrind, a precision CNC cylindrical grinding machine was unveiled by Ramakant Reddy, Managing Director, LMT FETTE (India) Pvt Ltd. A 3-axis machine with Siemens 828D controls for precision grinding of circular parts, it comes with customised tooling and tailor made diamond/CBN/abrasive wheels for specific applications

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 Hall 4, C125



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Buyer Seller Meet

Source: IMTMA

## BRINGING GLOBAL BUSINESS Contracts to India

The first ever international buyer-seller meet generates influx of business enquiries.

The first ever Reverse Buyer Seller Meet (RBSM) organised by IMTMA and EEPG India ended on a high-note. The event that ran from January 26-29, 2017, and held concurrently with IMTEX 2017, generated a large number of potential business enquiries.

Over 55 potential buyers of machine tools from target overseas markets (19 countries) participated in the meet to explore mutual business opportunities with the Indian machine tools and accessories manufacturers. The delegates were greeted and addressed by IMTMA members—V Anbu, Director General, IMTMA; Shailesh Sheth, Past President, IMTMA; R Seshagiri, Deputy Regional Chairman (South), EEPG India; and TK Ramesh, Chairman, Export Development Cell, IMTMA, at the inaugural session held on January 27, 2017.

B2B meetings were arranged between the buyers and many of the Indian machine tool and accessories manufacturers, viz., Ace Designers, Grind Master Machines, Trishul Machine Tools, Jyoti CNC Automation and Wendt India, to name a few. Facility visits of companies in and around Bengaluru were also arranged for some of the buyers.



### Global Outlook

## LEARNING from examples!

Innovative technologies must be incorporated to ensure growth..

IMTEX has grown into one of the major players among international manufacturing events. "We look forward to seeing the technologies demonstrated there and gaining a sense for the current state of India's manufacturing industry," informs Douglas Woods, The Association of Manufacturing Technology, USA. AMT has a tech centre in Chennai and is also hosting a country pavilion

at IMTEX, through which it is connecting with its members with their Indian colleagues and potential customers.

### Mutual learning

The IIoT is bringing about opportunities and challenges at a pace faster than ever before seen, and it's affecting every aspect of manufacturing. "Embracing the opportunities in digital manufacturing will be important for all manufacturers. The Indian manufacturing industry can benefit by putting its efforts and attention toward this digital shift, and continually developing solutions to mitigate its risks," avers Woods. There's a lot to learn from India as well, "With India's tech-savvy culture and workforce, we are interested to see new innovations particularly in terms of large volumetric machining, nanotechnologies, multi-tasking and multi-function machines," voices Woods.



**"We look forward to discovering innovative new technologies or concepts we have not seen at other events."**

*Douglas Woods, The Association of Manufacturing Technology, USA*

**AMT- The Association For Manufacturing Technology**  
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Event

Source: IMTMA

# GOLF TOURNAMENT @ IMTMA

IMTMA held its first ever Golf Tournament at the Prestige Golfshire Club, Bengaluru, on January 29, 2017, for exhibitors at IMTEX and Clients of BIEC to celebrate 10 years of the premium exhibition complex. The event was graced by luminaries from Purshoatam Co Pvt Ltd, Dee-Kay Clutches Pvt Ltd, International Association of Exhibitions & Events, R E Rogers India Pvt Ltd, and Toyota Kirloskar Pvt Ltd. It was Manpreet Sachdeva, CEO, Dee-Kay Clutches who won the tournament, while his daughter Jasmine claimed the runner-up prize.



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Grinding Technology

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# Turning Products Range



## VTL Technologies by Turning Length

TECH	400	550	700	800	900	1200	1600
Turret Type							
Milling Head Type							
Ram Type							

## HTL Technologies by Turning length

TECH	BRAND	300	400	500	700
Compact Turning	Orbitur				
Turn Mill Technology	Helix				
Heavy-Duty Turning	Rhino				

Visit us @ Hall-1A  
Stall No. A-102



Clamping & Gripping

Source: Magic Wand Media Inc

## PRODUCT OPTIMISATION KEY to Efficient Manufacturing

Intelligent products are drawing the interest of Indian customers.

This year at IMTEX 2017, SCHUNK is showcasing artificial intelligence based components. The topic of interest for the manufacturing sector seems to be Industry 4.0. Expounding on the conundrum whether the India will embrace the next industrial revolution without having fully incorporated Industry 3.0, Satish Sadasivan, Managing Director, SCHUNK Intec India Pvt Ltd, reasoned, "More than implementing the solutions immediately, the Indian customers are more interested in understanding the future scenario of manufacturing in

the era of Industry 4.0." Explaining how the revolution is impacting the industry, he added, "For India, a majority of the machine tool sector comprises SMEs. For these companies, the implementation of Industry 4.0 will not be an overnight upgradation. Robot integration and automation will be inevitable if one wants to be competitive, but the process will happen over time," he added.

### Optimising process lines

Shedding light on the cost aspect of adopting the fourth generation of

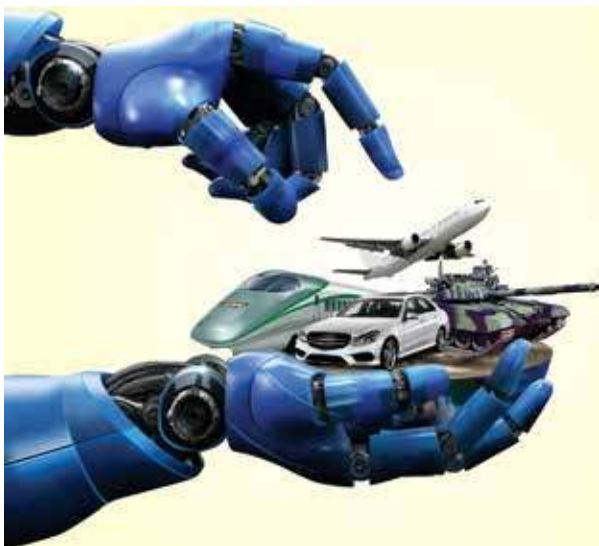
manufacturing, Sadasivan, pointed out, "The basic Industry 4.0 is already here. Some of the products that we already have in our country are Industry 4.0 ready. There is no cost challenge up to that point. When you go for a complete revision, say in next five years, then there may be some initial investment. However, most of the projects that we have done in 2016 are not by deploying new capital but through product optimisation."



**“The biggest interest has been on the downtime killers, and so far around 70 percent of the enquiries are from South India.”**

**Satish Sadasivan  
Managing Director  
SCHUNK Intec India Pvt Ltd**

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**DRIVE SHAFT**  
157 mm



**MACHINING TIME**

On Traditional CNC Lathe	<b>42 Sec</b>
On <b>GDW CNC Lathe</b>	<b>23 Sec</b>

**MOTOR SHAFT**



**MACHINING TIME**

On Traditional CNC Lathe	<b>186 Sec</b>
On <b>GDW CNC Lathe</b>	<b>102 Sec</b>

**YOKE**



**MACHINING TIME**

On <b>GDW CNC Lathe</b> (From Raw part to finished part in a single setup)	<b>90 Sec</b>
---	---------------



**PISTON ROD**



**MACHINING TIME**

On <b>GDW CNC Lathe</b> (Turning, thread rolling & flat milling in single setup)	<b>60 Sec</b>
---	---------------

**KICK SHAFT**



**MACHINING TIME**

On Traditional CNC Lathe	<b>134 Sec</b>
On <b>GDW CNC Lathe</b>	<b>80 Sec</b>

**PULLEY**



**MACHINING TIME**

On Traditional CNC Lathe	<b>313 Sec</b>
On <b>GDW CNC Lathe</b>	<b>172 Sec</b>

**SHAFT**



**MACHINING TIME**

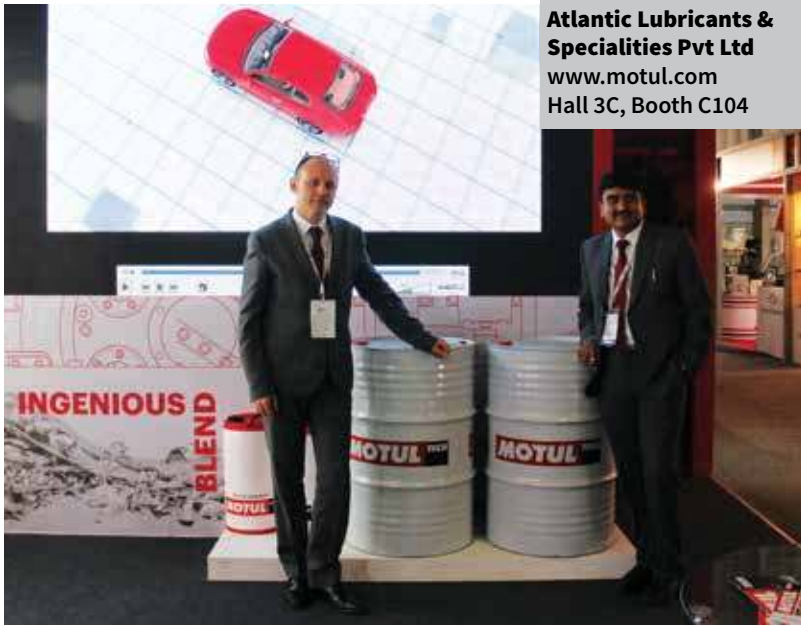
On Traditional CNC Lathe	<b>572 Sec</b>
On <b>GDW CNC Lathe</b>	<b>314 Sec</b>

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www.motul.com  
Hall 3C, Booth C104

Source: IMTMA

Metalworking Fluids

# PRIORITISING Process Enhancement

The choice of lubricants can impact process and businesses in enduring, positive ways

The face of what lubricants can do for a process is evolving. "Indian customers are changing their outlook;

they no longer mind spending a little more on lubricants if it helps them save in the long term, in terms of safety,

“The potential of the Indian market for metalworking and machining can be seen by the participation at IMTEX.”

Olivier Vergnes, COE, Motul Tech Coordinator, Marketing Manager

“The platform IMTEX provides us with is growing exponentially. Our enquiries are coming from several high-end and alternative industries such as rock climbing.”

Yatendra Kumar, Business Head, MOTUL TECH India

efficiency, lowering consumption and maintenance costs," observes Olivier Vergnes, COE Motul Tech Coordinator, Marketing Manager.

Agreeing with the sentiment, Yatendra Kumar, Business Head - Motul Tech India, adds, "There is also greater environmental sensitivity as more Indian manufacturers are exporting to Europe and the US. They have higher compliance demands. They are even voluntarily prioritising green practices, even without government intervention, whether to earn carbon credits or get green certification."

This enhanced environmental awareness is not limited to OEMs, even SMEs are investing more in environmental compliance. "About 80% of our business comes from SMEs," informs Kumar. Their water-soluble lubricants have a high traction in Indian market.

Lube legacy

Since its inception, over 160 years ago, Motul Tech has remained in the lubricants business. "We are a family owned company, and because of our unique focus on lubricants, we have long-running relations with our customers," says Vergnes.

The company has plans to dispense their vast knowledge of lubricants to the market. "We have plans to create a Motul Tech school, which will allow us to share our knowledge about lubricants with our sales force, distributors, and customers," appraises Vergnes, "It should start within the year."

Workholding Equipment

# Compact CNC Tilting Table

UCAM's Mint Tilting Rotary Table allows higher cutting parameters and reduces cycle time.

The URH-320i-TN Mint Tilting Rotary Table from UCAM is a compact CNC Tilting Rotary Table of diameter 320 mm with a swing of diameter 400 mm. The tilting rotary tables can be used for machining of larger size components onto a smaller machining centre where the standard tilting rotary tables cannot be used owing to size constraints. The load carrying capacity of 110 kg in the horizontal position and 70 kg in the vertical position and Clamping torque of 600 Nm and 950 Nm for Rotary Axis and Tilting Axis respectively allows the user to use higher cutting parameters during the operation thus reducing the cycle time. With a tilting range of ±110° the component can be positioned to any compound angle for machining.



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Machining

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As the manufacturing world evolves with each passing day, the demands for small parts are only going to go up. Whether it is producing that intricate mobile casing or a complicated electronic cover; few machines promise you the quality, speed & reliability of the BFW Mach 32. Speed, accuracy & flexibility are the defining attributes of the Mach; which is capable of rapid rates up to 60 m/min and maximum spindle speeds of 24,000 rpm. The machine also comes with a very compact foot-print and a 20-tools Disc type ATC with a two second tool change time, ensuring continuity of operation for long cycles.

**Bharat Fritz Werner (BFW)**  
www.bfwindia.com  
Hall 1A, Booth A102



**S&T Engineers**  
www.stengineers.com  
Hall 3A, Booth B106

Machinery

Source: Magic Wand Media Inc

# A Plethora of OPTIONS

## Delivering the Right Tools for Efficient Manufacturing

S&T Engineers Pvt Ltd, an engineering marketing company, is presenting new products from its 74 sq mt wide area, hosting seven different stalls at IMTEX 2017. The company is partnered with the likes of Kelch and Bedra, from Germany and Technomagnete from Italy.

Riyaz Husen Malik, General Manager, Accessories, S&T Engineers Pvt Ltd, informs, "In the machine tool segment, we have launched new turn-mill centres, turning centres, a double column machine and auto pallet changer machines. On the accessory side, we have launched magnetic wire holding systems from our Italian partner Technomagnete. A tool presetter from Kelch and an EDM wire-cut machine from Bedra."

### Ideal platform

"The response has been exceptional for us both in terms of visitors as well as enquiries. Our range comprising tool pre-setters, quick fit machines, magnetic wire pulling systems, etc., has a lot of demand in the market," says Malik.

To IMTMA, Industry stalwarts, Our Advertisers, Readers and Well-wishers, We **THANK YOU** profusely for your continued support. – *Magic Wand Media Inc*

	 Hall 3c, Stall C104	 Hall 4, Stall B110	 Hall 4, Stall A120	 Hall 3A, Stall A119	 Hall 2B, Stall B105	 Hall 3c, Stall C104	 Hall 3c, Stall C104
 Bangalore International Exhibition Centre	 Hall 1A, Stall A108	 Hall 1B, Stall E101	 Hall 3A, Stall A108	 Hall 1A, Stall A102	 Hall 2B, Stall A102	 Hall 3A, Stall B105	 Hall 3A, Stall B107
	 Hall 4, Stall A106	 Hall 1B, Stall B101	 Hall 4, Stall C109	 Hall 3A, Stall A120	 Hall 3B, Stall A137	 Hall 2A, Stall A102	 Hall 3B, Stall A112
 Hall 3c, Stall C104	 Hall 1B, Stall I108	 Hall 2A, Stall A112	 Hall 3B, Stall B103	 Hall 3A, Stall B108	 Hall 2A, Stall B103	 Hall 3B, Stall A104	 Hall 6, Stall B101
 Hall 3A, Stall B123	 Hall 6, Stall B101	 Hall 2A, Stall A106	 Hall 4, Stall C125	 Hall 1A, Stall B109	 Hall 7, Stall A105	 Hall 3B, Stall B109	 Hall 3A, Stall B106

Tooling Solutions

# Evolving Needs are a DRIVING FORCE

**With each passing year, customers are looking for complex, reliable and hi-tech solutions. LK Krishnan, Managing Director, Taegutec India Pvt Ltd, sees this as the industry's primary growth driver.**



Indian customers are always migrating and upgrading their products, which necessitates upgrading manufacturing technologies. "Every change in a machined component and material is an opportunity for upgrading tooling solutions," says Krishnan.

**Demand creates opportunity**

This driving factor is what has opened up new avenues for upgrading processes and solutions. "Our partnership with our customers have enriched us," says Krishnan, "and our association has benefitted our customers significantly to improve their productivity and reduce cost."

**Gearing for growth**

Excited about the potential the machine tool sector has for up gradation and innovation,

Taegutec believes that the 'Make in India' initiative is a journey that takes manufacturing to a new level, resulting in the creation of manufacturing hubs as well as new jobs. Krishnan voices, "We are quite excited from our side and are gearing up to meet anticipated new demands from industry so that our solutions are meaningful to emerging needs. We are fully aligned with the campaign and gearing up for the same."

Taegutec is displaying its new generation tools for turning, milling,

drilling, grooving and parting tooling systems. In addition to this, the company is also displaying industry oriented solutions using standard and tailor made products. "These concepts are well proven and have benefitted many of our customers across the globe," says Krishnan.

**Taegutec India Pvt Ltd**  
[www.taegutec-india.com](http://www.taegutec-india.com)  
 Hall 3A, Booth A120

**IMTEX is the ideal platform to enable traditional users to migrate to new generation solutions."**

**LK Krishnan, Managing Director, Taegutec India Pvt Ltd & Past President, IMTMA**

**Jyoti - FIE Awards**



MTX 300 - India's first ever CNC Multitasking Machine, designed and developed for sophisticated engineering applications in the field of Aerospace, Defence, Energy and Automobile - was conferred the FIE Foundation Trust Award for the best machine at IMTEX 2017.

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Metalworking Fluids

# Towards Green Chemistries

**Zavenir Daubert showcases its corrosion protection, metalworking, cleaning and paint shop products at the IMTEX 2017.**

The company specialises in providing value to customers through their proprietary and unique approach of CCPP Solution Engineering. "Through this program, we enable our customers to delegate performance ownership to our expert team," elaborates Balwant Bains, GM - Product Management & Marketing, Zavenir Daubert, "While the customer focuses on core functions, we develop a module to map, study and suggest products, process and technologies used by them."

**Eco-friendly solutions**

The company is displaying the recently introduced Hakuform L-series, which is a fully synthetic

metal working oil to supplement its existing range of non-water-miscible Hakuform-metalworking oils. Some of their exclusive cleaning and paint-shop products is be on display. The HAKUFORM water soluble cutting oils are formulated based on Chlorine-Free Extreme Pressure (EP) additives, like esters, which provide excellent tool life without compromising on environmental norms and risks associated with conventional chlorinated water soluble oils. The KLUTHE Advanced Surfactant Technology creates stable micro emulsions, and enables the action of multi-functional power surfactants to deterge matters like chips or burrs at a faster pace and lower carryover losses.

KLUTHE BIOLIT technology releases active Buffer Biostability ingredients continually at a low concentration to the water-based cooling lubricant producing sterile solutions and emulsions with a long sump life. He asserts that Zavenir Daubert is committed to India and its progress: "While we initially started as importers of best-in-class products from our collaborators, we have started to manufacture a large range of corrosion protection and metal working fluids in our India plant at Binola, Haryana. We are fully aligned with Make-in-India program and wish to bring more product lines to India in near future."



**“As the industry is shifting to green and clean chemistries, we will showcase our strength through our innovative and environment-friendly solutions.”**

**Balwant Bains  
GM - Product Management & Marketing, Zavenir Daubert**

Cutting Oil

## ACHIEVE Excellent Tool Life

**Making cutting oils that are better for machining as well as the environment**

HAKUFORM water soluble cutting oils from Zavenir Daubert are formulated based on Chlorine-Free Extreme Pressure (EP) additives, like esters, which provide excellent tool life without compromising on environmental norms and risks associated with conventional chlorinated water soluble oils. The company's KLUTHE Advanced Surfactant Technology creates stable micro emulsions, and enables the action of multi-functional power surfactants (combination of non-ionic and cationic surfactants) to deterge matters like chips or burrs at a faster pace and lower carryover losses.

Their KLUTHE BIOLIT Technology releases active buffer bio-stability ingredients continually at a low concentration to the water-based cooling lubricant producing sterile solutions and emulsions with a long sump life.



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Country Pavilion - Spain



## Favouring Mutually Beneficial Growth

The member companies of the AFM, the Spanish Association Of Manufacturers of Machine Tools participating at IMTEX 2017 believe that India is an important market and hence have brought with them their offerings and services to forge stronger ties between the two countries.

18

### EKIN

The company manufactures an entire range of broaching products, as well as cutting tools and high precision cold forming tools. With an all-inclusive manufacturing base, the company is flexible and adapts its products to the customers' need.

Hall 1B, Booth B107

### ETXE-TAR GROUP

The Group has committed itself to bring about with adjustable solutions for its partners. It manufactures deep hole drilling centres for oil holes, crankshafts and transmission shafts, flexible crankshaft manufacturing systems, turnkey systems and single machines for connecting rods.

Hall 1B, Booth E105

### FAGOR AUTOMATION

The company has extensive experience in the development and manufacture of products for machine automation and control. It excels by its capability to develop software, and the versatility of its production process offer tailored solutions to its customers.

Hall 1B, Booth D102

### GAMOR

GAMOR manufactures tapping (thread cutting and forming), drill and end-mill grinding and clamping solutions. One of the leading offerings is a hydraulic tapping machine with a capacity to tap from M3 to M130 in one single machine.

Hall 1B, Booth A108

### GORATU

With around 60 years of experience in machine building, GORATU develops a wide range of horizontal, vertical and multi-tasking lathes. The company will be promoting its new GEMINIS GM9 multiprocess machine at IMTEX 2017.

Hall 3A, Booth B103

### IBARMIA

The company manufactures 3, 4 and 5 axes machining centres and moving column machining centres with fixed table. It is partnered with companies in the aerospace sector to create the Centre of Advance Manufacturing for Aerospace in Bilbao.

Hall 1B, Booth B104

### GURUTZPE

Manufacturer of heavy duty CNC lathes heavy that range from Ø700 mm to Ø3000 mm and weigh between 5 and 120 tonne. It also manufactures multitasking machines, turning, milling, boring, bottle boring & other machines.

Hall 1B, Booth E103

### INNOVALIA METROLOGY

The firm offers the best-in-class metrology solutions that integrate traditional metrology with the latest non-contact technologies, from laboratories to production lines.

Hall 1B, Booth B106





**JUARISTI**

JUARISTI manufactures planer type horizontal boring & milling machines, medium & big sizes machining centres, floor type boring milling machines with ram, hydrostatic horizontal floor borers, floor type milling machines, and rotary tables.

Hall 1B, Booth D104

**NICOLAS CORREA**

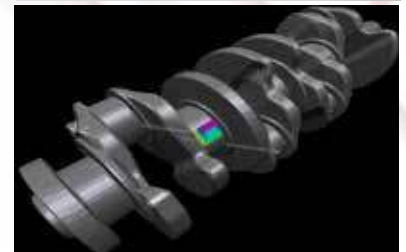
The company designs and fabricates medium and large size milling machines. It is promoting is the FENIX floor-type milling machine with fixed table that can machine medium and large-sized parts up to 20,000 mm in length.

Hall 1B, Booth A106

**SHUTON**

Shuton is Spanish High Precision Ballscrew manufacturer that specialises in design and development of high technology ballscrews that can be used in a range of applications for Injection moulding machines, presses and general Heavy duty applications.

Hall 1B, Booth B105



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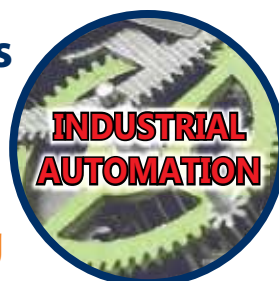


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Turning & Milling

# PROVIDING THE right solution!

**The Indian buyer is now educated and more discerning when it comes to making the best choice for their shop floor.**

Widia is presenting its offerings at IMTEX 2017. The company's new product range includes Victory, a Premium offering in Turning; Hanita End Mills for Aerospace; ClappDiico for aluminium machining; the cloud-based digital platform NOVO for finding the right tooling for machining requirements; and ToolBOSS a one-stop solution for creating secure storage and supply.

Imparting the right knowledge "Widia, with its presence in India for the last 50 years, is well-positioned to serve the Indian Markets with our product offerings in end-markets including aerospace, energy, defence

and automotive and general engineering," states Prashant Shetty, Business Head - WIDIA Products Group.

"Data from previous editions of IMTEX suggests that 46% of visitors have resolved their issues, 36% finalise deals and 32% locate productivity improvement solutions at the event," shares Shetty, "the Indian buyer is now educated and looks for expert opinions from their 'consultants' (suppliers) who advise on how their products are to be used for optimum results. We believe we possess that knowledge."



Source: Magic Wand Media India



**Kennametal India Ltd**  
www.kennametal.com  
Hall 1A, Booth B109

Machining Technology

Source: Magic Wand Media India

## Understanding the CUSTOMERS' VIEWPOINT

**New value added offerings form the thrust of Kennametal's array in this edition of IMTEX 2017.**

"In our businesses of Kennametal Tooling, WIDIA Tooling, WIDMA Machining Solutions and Kennametal Infrastructure product portfolio offerings, we start our interactions with our valued customers by putting ourselves in their shoes, listen to them, understand their needs," shares BC Rao, Managing Director, Kennametal India Ltd. "We at Kennametal, are well positioned to partner with them and are committed to strive hard to work closely with the aim of making them successful in their business in the manufacturing sector"

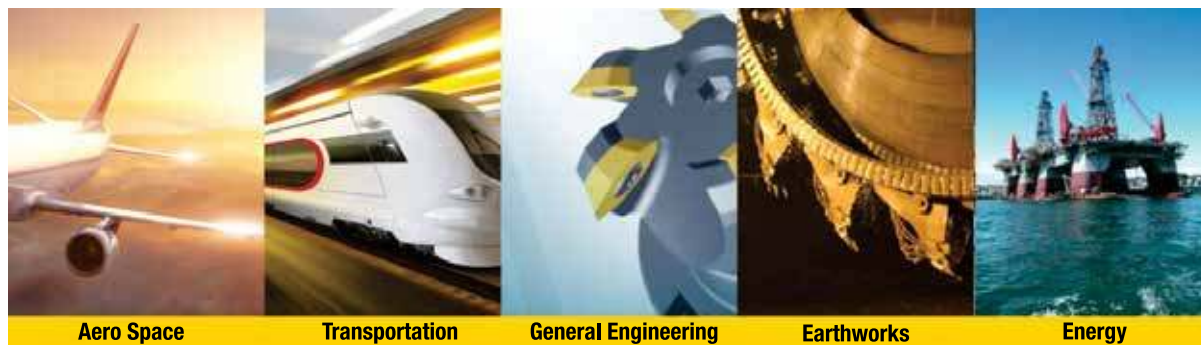
**New innovations**

The company's booth has a line up of new value added offering in wear resistant solutions with dies & wear parts, and WIDMA range of SPM's, Fixtures and Eco grind machines are on display. He endorses IMTEX as the biggest and most popular exhibition in the manufacturing space. "The user industry as well as suppliers look forward to connect with visitors through live demonstrations of products & application offerings," he concludes.

20



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Safety Solutions

# ROBOT AND HUMAN Collaboration on the Shop floor

**Mitsubishi's safety solution enables robots and humans work together in harmony.**

In today's flexible production environments, robots and human operators increasingly work side-by-side. Prime examples of these solutions are Mitsubishi Electric's 6 axis RV-F Series robots and the Scara RH-F Series robots. Their high speed and ease of integration with vision systems and other equipment predestines them for applications in a broad range of lifting, positioning and assembly applications in industries from automotive through food & beverage and packaging. In order to make the human-robot interaction safer, Mitsubishi Electric's integrated (optional) Safety Solution—'MELFA SafePlus' for its MELFA F Series industrial robots—helps manufacturers to boost productivity and lift human-machine collaboration to a new level by allowing the robot to continue operation, within tight constraints, while operators access its work cell.

**Next level safety**

N S Madhusudhanan, Senior Manager – Robotics Business Development, Factory Automation & Industrial Division, Mitsubishi Electric India Pvt Ltd advises on the benefits of the technology: "The new technology limits the speed, range of movement or torque of the robot when safety sensors are

activated, allowing operators to work in close proximity to a moving robot." The solution comes with three main safety functions: Reduced Speed Control limits the robot's maximum speed to less than 250 mm/s when activated, allowing the robot to carry on working but at a safe speed when operators are present. Limited Range Control prevents the robot from entering the part of the work cell accessed by the operator. Torque Monitoring controls the speed and movement of the robot to keep estimated torque in its joints below a pre-determined level. This ensures that the robot will stop safely in the event of a collision with an operator and also protect the equipment.

**Enhancing operations**

The F Series robots are equipped with Safe Torque Off and Safe Stop capabilities, ensuring that motor power shuts off and the robot stops when an error occurs. Madhusudhanan adds, "Expanding on the existing range of safety features of our robots, the new optional safety concept takes this a step further, allowing our customers to integrate robots and human operators in the same production lines with less space, less cost and higher overall productivity."



**N S Madhusudhanan, Senior Manager – Robotics Business Development, Factory Automation & Industrial Division, Mitsubishi Electric India Pvt Ltd**



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- > Enterprise Manufacturing Intelligence – Big Data analytics, Data acquisition, Data Security etc.
- > Connected Factory
- > Manufacturing Plant Integration
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- > Smart Maintenance

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**Mobile: +91 9886611007 or Email: abhishek@imtma.in**  
 Registration for participation must be made Online only.  
 To register logon to [www.imtma.in/ssm](http://www.imtma.in/ssm)

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**Grinding**

## Strengthening SYNERGIES

**Tyrolit India Super Abrasive Tools Pvt Ltd**  
[www.tyrolit.com](http://www.tyrolit.com)  
 Hall 3B, Booth A104

### Tyrolit presents cost effective and productive solutions for grinding applications.

"The Indian industry is very focused on the latest technologies for productivity with improved quality, and all the investments on equipment are made with this consideration," suggests Subrahmanya Kumar V, Country Sales Manager - India, Tyrolit India Super Abrasive Tools Pvt Ltd.

**Optimum solutions**

The company's booth at IMTEX 2017 features Genis 2, a state-of-the-art solution for External Cylindrical Grinding; MIRA ICE, a New Generation Solution for finishing the Gear Profiles; Startec RC, a highly productive solution for Fluting of Round Tools; and Startec XP-F, flexible solution for polishing of flutes of Round Tools are some of the highlights.



**Subrahmanya Kumar V, Country Sales Manager - India, Tyrolit India Super Abrasive Tools Pvt Ltd**

"IMTEX showcases of all the new developments and technology in this field," states Subrahmanya, "and, our expectation is simply to attract many visitors in our booth, communicate the benefits from our latest developments and get acquainted with prospective customers. This is also a great opportunity to strengthen the synergies with related stake holders." "Our focus is to provide cost effectiveness to our valued customers and make them cost competitive by providing optimized state of the art solutions." Subrahmanya Kumar V, Country Sales Manager - India, Tyrolit India Super Abrasive Tools Pvt Ltd



Visitor Insights

Reflections @ IMTEX



This is our first visit to IMTEX. It is a highly impressive exhibition wherein we have seen the brilliant infrastructure, world-class exhibitors and latest technologies. We are especially impressed with our visit to Blaser Swisslube and with The Liquid Tool concept.

Satbir Singh  
Lark Engineering Company India (P) Ltd



Visiting this world-class exhibition at BIEC, was a great experience for us. We came looking for a solution to reduce our overall costs. Having visited the Blaser Swisslube booth and being explained the Liquid Tool Concept, we are eager to collaborate with them.

Uday Pratap Singh  
Growth Shop  
Tata Steel Ltd



We are constantly upgrading our technology, and therefore always looking for innovative technologies. IMTEX gives a great opportunity to explore these possibilities. We visited the Blaser Swisslube booth as we have been associated with them for more than 12 years. We are delighted using the Liquid Tool, which has helped us with green manufacturing and zero disposal..

Avinash Belapurkar  
Bajaj Auto Ltd



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Technocart.com  
www.technocart.com  
Hall 3A, Booth B106



Source: Magic Wand Media Inc

E-commerce

# ONLINE SHOPPING for Manufacturers

**Dedicated e-commerce portal for industrial products of India celebrates completion of two years.**

Technocart.com is a pioneering e-commerce website exclusively for trading a wide range of industrial products for the manufacturing and fabrication sectors. A venture by S&T Engineers, Technocart benefits from two decades of the parent company's experience with reliable & affordable technology and a keen understanding of the needs and expectations of Indian manufacturers.

The product umbrella includes cutting tools, hand tools, power tools, measuring equipment, machinery & spares, electrical & IT accessories, safety & security, pneumatic & hydraulic, as well as maintenance, office products, automobile lubricants and DIY tools.

Since its inception two years ago, the site has gained around three lakh registered users, comprising decision makers and influencers from India's manufacturing scenario. The product catalogue exceeds over one lakh original commodities. "Regular buyers from the site make around 14 percent annual savings on procurement," proclaims S Karthik Swaminathan, General Manager, Technocart.com. The site guarantees genuine products, secure transactions and special packages for bulk orders. Moreover, there is a special offer going on for IMTEX 2017 visitors who register on the site now. Details are available on the portal.



“Regular buyers from the site make around 14 percent annual savings on procurement.”

**S Karthik Swaminathan**  
General Manager  
Technocart.com



Source: Francis & Klein & Co Pvt Ltd



**Liebherr Machine Tools India**  
www.liebherr.com  
Hall 3A, Booth B105

Gear Hobbing Machine

## TWO MACHINES IN ONE

**A gear hobbing machine with a chamfering process reduces cycle times and increases productivity.**

Liebherr hobbing machines are optimised for universal gear applications. These high-performance hobbing machines are productive and best in class for machining single parts as well as high-accuracy parts. The machines are suitable for ring gears and shafts with diameters up to 75 mm and length 75 mm. Its compact design is suitable for small floor spaces. The chip to chip time is less than 3 seconds, making it suitable for high speed hobbing and finish hobbing applications. The gear hobbing machine LC 180 with an integrated Chamfer Cut unit for deburring and chamfering the face edges is based on renowned technology. After hobbing with the usual one-cut strategy, the Chamfer Cut tool additionally generates precise and reproducible chamfers. With this machine even very small chamfer cut diameters are possible (>30 mm) is possible. The machine comes with a stiff fixture for hobbing and an adjusted fixture for chamfering.

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Register at student registration counter at Entry Plaza





**EXCLUSIVE TÊTE-À-TÊTE @ EXPO**

# Impacting the MANUFACTURING SECTOR!

**IMTEX 2017 has been a versatile platform to state-of-the-art technologies related to machine tools. Delegates and Visitors at the event voice their experience.**

### Machine Vendors Intend to Help Skill Development

I am a former staff member of the United Nations, and I worked in different countries for industrialisation and technology transfer. Besides running my own industry, I work for skill development of the SMEs. I came here to promote Modiji's Skill India. I have talked to some manufacturers regarding the need for skill development. My ideology has been highly appreciated by many exhibitors. I'm going to start a Skill Development Centre at Karwar, near Goa. I have received assurance for support from many machine vendors present here.

*Dr. Ganesh P. Rane*  
Chairman / CEO  
RRR Industries, Mumbai



### A Show with Balanced Focus on Machines and Tools

Right from the beginning, we have been participating in all editions of IMTEX. I have seen several Machine Tools fair in different countries. Thus, I feel now this exhibition ground (IMTEX venue) has reached very close to the global standard. The high-end machinery needs high-end tools. In IMTEX 2017, I find a right balance of both – along with good focus on cooling systems. Thus, I say, visiting IMTEX 2017 is really worth it for all technocrats and business decision makers dealing with metal cutting.

*Hermann F. Weiler*  
Chief Patron  
Gedee Technical Training Institute  
Coimbatore



### Touch-Feel Experience Enhances Seller's Confidence

"IMTEX is a very important source of knowledge for us. Here, I saw several new machines and tools. The ideas gathered from here will help me influence our customers in adopting latest technologies. As I deal with tools, to be very specific I have been benefited by TOOLTECH. TaeguTec's new products are on display there. I have been able to physically see them, understand their effectiveness, etc., which will help me in offering the most optimised tools to my customers."

*Ajay Kumar Dube*  
Sales Manager  
Bhatia Associates  
Kanpur



### Excellent CMC and VMC Machines are on Display

"We manufacture auto components. I came here to look at new Computerised Numerical Control (CMC) and Vertical Machining Center (VMC) technologies. I am quite satisfied. The Makino CNC Turning Centre is very good. Also, I have seen 5-axes machinery, which is quite new for me. Overall the arrangement is very good here. The show has provided enough opportunities for me to update myself, and interact with several machine-tool suppliers."

*Pravin Kulkarni*  
Divisional Manager (ME)  
Micro Supreme Auto Industries (I) Pvt Ltd  
Pune



**Yamazaki Mazak India Pvt Ltd**  
www.mazakindia.in  
Hall 3A, Booth A108

### Mutli-Tasking Machines

## Being the GUIDING LIGHT

Source: Magic Wand Media Inc

**Mazak develops advanced machine tools for progress in manufacturing.**

Gone are the days when the world looked at India as a low-cost, bulk manufacturing for auto components designation. It is now being looked at as attractive destination for solutions in high-end sectors such as aerospace. Anil Bhardwaj, Deputy Managing Director, Mazak India analyzing the current market informs, "The face of India is changing and because of government initiatives such as 'Make in India'." Additionally, government policies now make it almost mandatory for commercial aircraft manufacturers to produce 30 percent of the parts inside India. "This has brought about collaboration between foreign and Indian companies that manufacture in India, according to global standards, and sell those products worldwide. This is widening the potential of machine tools for the manufacture of aerospace components," avers Bhardwaj.

### Technology at the forefront

At IMTEX, the company is currently showcasing eight high-end machines to cater to the ongoing needs of the market. Two of the eight machines—the VCP 400 S and QTP 100 S—have been recently launched, while

the other six have been modified with "Smooth Controllers". The company is also showcasing the landing gear used in the aerospace sector that has been manufactured using its multi-purpose machines. "Customers need to enhance productivity, and hence, there is a need for single set-up, multi-purpose high-end machines," states Bhardwaj, "which is why Mazak is committed to its customer's success." To further support their customers, the company has a Technology Centre in Pune that acts as a service, training and repair center.



**“Mazak works hand-in-hand with customers to give them a complete solution.”**

**Anil Bhardwaj**  
Deputy Managing Director  
Mazak India



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Hall No. 2A Booth No. A112



PLEASE FILL IN YOUR DETAILS AND ANSWERS BELOW  
(ALL FIELDS ARE MANDATORY)

1. Who is the world's first manufacturer of Fiber Laser Cutting Machine?
2. Which Indian state has been declared as the Country's first Organic State in 2016?

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ANSWER 2: \_\_\_\_\_

### WINNER OF DAY 5 CONGRATULATIONS!!



Mr. Haris Kumar V.  
Testing Engineer, AMTF, Karnataka



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