

# IMTEX 2017

CONCURRENT SHOW

## Tooltech 2017

26 JAN - 1 FEB 2017

# SHOW DAILY

The official showdaily of IMTEX 2017

DAY 2 | FRIDAY, JANUARY 27, 2017

PUBLISHED BY



Indian Machine Tool  
Manufacturers' Association

VENUE

BIETC Bangalore  
International  
Exhibition Centre

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Bangalore International Exhibition Centre



Approved Event



Plant Manager  
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Hall No. - 3B  
Stall No. - A137

## PLUS HIGHLIGHTS OF THE DAY

- Buyer-Seller Meet: Hall 3C (Rear Side)
- B2B Meeting Slots - 10.30 am - 13.00 pm
- Networking session with international buyers - 10.30 am - 13.00 pm
- CONNECT - i2 Academia Pavilion, Hall 4 - 1600 - 1715 hours
- Safe Driver Inauguration & First day workshop - 1400 - 1500 hours
- Entry Plaza 2 near Technology Centre Gate

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### Innovation Platform

## Setting Higher STANDARDS

IMTEX 2017, the 18<sup>th</sup> edition of the show, and Tooltech 2017 began with an auspicious start at the Bangalore International Exhibition Centre (BIEC) on January 26, 2017. The exhibition was inaugurated by Shri Siddaramaiah, Hon'ble Chief Minister of Karnataka amid an applauding crowd. Highlights from the power-packed opening ceremony...

The inaugural ceremony to one of the largest exhibitions in South and South East Asia was studied with industry leaders, decision makers from across user segments and high-placed government dignitaries.

In his inaugural address, Shri Siddaramaiah, Chief guest and Hon'ble Chief Minister of Karnataka posited, "BIEC hosted this event for the first time in 2007, and ever since, it has been a gateway to attract investments in Karnataka."

DV Prasad, Additional Chief Secretary, Commerce & Industries Dept, Govt. of Karnataka, called to mind the special significance of Bangalore city, "Machine Tools have their cradle in Bangalore; the industry has now matured and contributes to nearly half of the country's machine tool production."

### Committed to progression

The newly constructed 17,500 sq mt



Jamshyd N Godrej, Chairman Exhibitions, IMTMA addressing the audience during the IMTEX 2017 inauguration ceremony.

### Innovation Platform

## उच्च मानक को स्थापित करना

इमटेक्स 2017 की प्रदर्शनी के 18वें संस्करण तथा टूलटेक 2017 की शुभ शुरुवात जनवरी 26, 2017 के दिन बंगलुरु के बंगलोर आंतर्राष्ट्रीय प्रदर्शनी केंद्र (बीआयडिसी) में हुई। यह प्रदर्शनी का उदघाटन कर्नाटक के माननीय मुख्यमंत्री श्री सिद्धारमैया के हाथों प्रशंसा करनेवाले जनसमूह के बीच किया गया। इस बहुगुणी उदघाटन समारोह की विशेषताएँ अब आगे.....

दक्षिण और दक्षिण पूर्व एशिया में सबसे बड़े प्रदर्शनीयों में से एक, इस प्रदर्शनी के उदघाटन समारोह की शोभा उद्योग जगत के नेता, उपयोगकर्ता क्षेत्र

### Innovation Platform

## 設置更高的標竿

IMTEX 2017, 第18屆展覽會, 暨2017年工具機展謹訂於2017年1月26日在班加羅爾國際展覽中心 (BIEC) 隆重開幕。展覽開幕由卡納塔克首席部長 SHRI SIDDARAMAIAH 先生主持, 興高采烈的群眾與光彩奪目的開幕式交織成一副本屆展覽的亮點。

在南亞和東南亞最大的展覽之一的開幕式上, 各個行業的企業領袖, 和來自不同用戶群的決策者和高層政府高層人士, 大家在此盛會上共襄盛舉。

### Innovation Platform

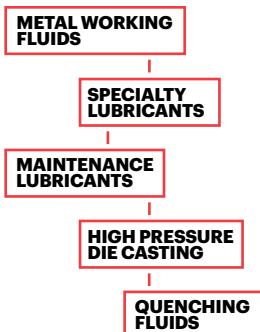
## Erhöhung die MESSLATTE

IMTEX 2017, die 18. Ausgabe der Messe und Tooltech 2017 begann am 26. Januar 2017 mit einem erfolgreichen Start auf dem Bangalore International Exhibition Centre (BIEC) Gelände. Die Ausstellung wurde von Herr Siddaramaiah, der Ministerpräsident von Karnataka eingeweiht. Highlights aus der Eröffnungszereemonie...

Die Eröffnung zu der größten Messe in Süd und Süd-Ost Asien wurde von Branchenführern, Entscheidungs-

To be continued on 6

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# TAIWAN TECHNOLOGY



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## DIE & MOULD SERIES - VH1100

Table Size : 1300 x 630 mm

Travel X / Y / Z Axis : 1100 / 700 / 610



## TURNING CENTERS - MSL200

MSL Series are equipped with high performance linear motion roller guide ways on both X and Z axis which aims to satisfy customers who demand high productivity.



## VL610 HIGH SPEED

Compact high speed machine for die mould fine finishing requirements.

15,000 rpm Direct Drive Spindle



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Capable of delivering high torque load at low speed Ideal for heavy cutting at low speed.

Travel X / Y / Z Axis : 2100 / 1220 / 600

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\*Conditions apply



**HALL 2A STALL NO : A104**



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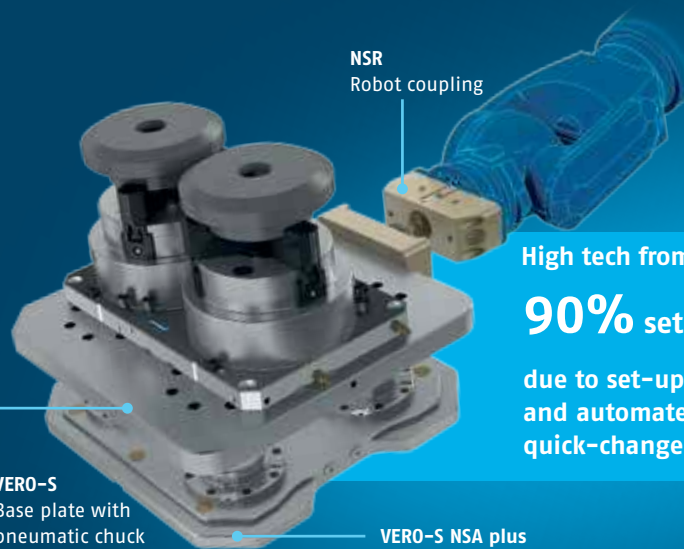
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**90%** set-up time reduction

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VERO-S Base plate with pneumatic chuck

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Clamping pallet with **TANDEM** clamping force blocks



Clamping pallet with **MAGNOS** magnetic clamping technology



Clamping pallet with **ROTA** chuck



Clamping pallet with **VERO-S** double angle tombstone



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Hall 2B | B105 | 26.01.2017 – 01.02.2017 | Bangalore



“About a dozen Czech companies are visiting this prestigious exhibition, whose skill, experience and knowledge perfectly fit needs of the Indian market.”

**Milan Hovorka, Ambassador  
Embassy of the Czech Republic**

From page 1 ▶

hall to compensate the demand for exhibition space was also inaugurated yesterday. Speaking on the prospects of the machine tool industry PG Jadeja, President, IMTMA & CMD, Jyoti CNC Automation Ltd, shared, “Last year, our Prime Minister eased the national policy for capital goods, with a clear objective of tripling manufacturing base to USD 110 billion by 2025. This and the ongoing consolidation in defence and aerospace capabilities, will further increase the need for machine tools with higher capabilities.”

Jamshyd N Godrej, Chairman Exhibitions, IMTMA, added, “In this edition of IMTEX & Tooltech, Visitors will get to see some of the emerging trends like Hybrid machines, 3D printing, Industry 4.0, and many more.” P Ramadas, Vice President, IMTMA submitted, “We assure you of the whole-hearted commitment and support of the Indian Machine Tool Industry to strengthen the Indian industry and bring it at par with international standards.”

### A much-awaited fair

“What makes IMTEX special is the ‘working machines’ that allow thousands of visitors to witness and decide which solutions are best suited to their needs,” informed Dr Naushad Forbes, President, CII.

More than 1000 ‘live’ demonstration of machines will be done at the exhibition, which is expecting a footfall of over 100,000 visitors.

तथा उच्चपदस्थ सरकार गणमान्य व्यक्तियों के निर्णयकर्ताओं से बढ़ गई।

अपने उद्घाटन भाषण में कर्नाटक के माननीय मुख्यमंत्री श्री सिद्धारमैया ने कहा, “बीआयडसी ने 2007 में पहलीवार इस प्रदर्शनी की मेजवानी की थी और तबसे यह प्रदर्शनी कर्नाटक में निवेश आकर्षित करने के लिए एक प्रवेशद्वार बन चुकी है। कर्नाटक सरकार के वाणिज्य एवं उद्योग विभाग के अपर मुख्य सचिव डी वी प्रसाद को बंगलुरु शहर का विशेष महत्व बताने के लिए कहा, “बंगलुरु मशीनी उपकरण का उदगम स्थल है। यह उद्योग अव परिपक्व है और मशीन उपकरण उत्पादन में बंगलोर का योगदान लगभग देश में आधा है।”

### प्रगति के लिए प्रतिबद्धः

जगह की कमी पूरी करने के लिए बनाए गए 17,500 चौ मी प्रदर्शनी स्थल का उद्घाटन भी आज हुआ। मशीनी उपकरण उद्योग की संभावनाओं के बारे में आयएमटीएमए के अध्यक्ष तथा ज्योती सीएनसी ऑटोमेशन लि के अध्यक्ष एवं प्रबंधनिदेशक पी जी जडेजा ने कहा, “पिछले साल हमारे प्रधानमंत्री जी ने विनिर्माण आधार, तीन गुना बढ़ाकर वर्ष 2025 तक अमरीकी डॉलर 110 अरब करने हेतु पुंजीकृत माल की राष्ट्रीय नीती को बदला, साथ ही रक्षा एवं हवाई क्षेत्र के समेकन की क्षमता की वजह से अधिक क्षमता के मशीनी उपकरण की ज़रूरत बढ़नेवाली है। आयएमटीएमए के प्रदर्शनी अध्यक्ष ए जमशीद गोदरेज ने कहा, “आयएमटीएमए और टूलटेक के इस संस्करण में आगंतुक उभरते हुए संकर मशीन, 3 डी छपाई, इंडस्ट्री 4.0 तथा और भी बहुत कुछ देख पाएंगे।

आयएमटीएमए के उपाध्यक्ष और इस विनिर्माण उद्योग के महाप्रबंधक पी रामदास ने कहा, “हम आपको आश्वासित करते हैं कि भारत के उद्योग को मज़बूत बनाने में और उसे आंतर्राष्ट्रीय मानक के बराबर लाने में भारतीय मशीनी उपकरण उद्योग अपना सहयोग देने के लिए प्रतिबद्ध है।

### एक बहुप्रतिक्षित व्यापार मेला

“इमटेक्स को विशेष बनानेवाली एक बात यह है कि ‘सक्रिय मशीन’ को देखने हजारों आगंतुक यहां आते हैं और वें अपनी ज़रूरतों के अनुसार अपने लिए उचित उपाय चुनने का निर्णय ले सकते हैं,” डॉ नौशाद फोर्ब्स, अध्यक्ष, सीआयआय ने जानकारी देते हुए कहा। इस प्रदर्शनी में 1000 से भी ज़्यादा मशीनों को चलाकर दिखाया जाएगा, जिससे एक लाख से भी अधिक आगंतुकों की प्रदर्शनी में आने की उम्मीद की जा सकती है।

कानाटाक प्रमुख अतिथि, ज्योती सीएनसी ऑटोमेशन लि के अध्यक्ष एवं प्रबंधनिदेशक पी जी जडेजा ने कहा, “बीआयडसी ने 2007 में पहलीवार इस प्रदर्शनी की मेजवानी की थी और तबसे यह प्रदर्शनी कर्नाटक में निवेश आकर्षित करने के लिए एक प्रवेशद्वार बन चुकी है। कर्नाटक सरकार के वाणिज्य एवं उद्योग विभाग के अपर मुख्य सचिव डी वी प्रसाद को बंगलुरु शहर का विशेष महत्व बताने के लिए कहा, “बंगलुरु मशीनी उपकरण का उदगम स्थल है। यह उद्योग अव परिपक्व है और मशीन उपकरण उत्पादन में बंगलोर का योगदान लगभग देश में आधा है।”

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### सततता के लिए प्रतिबद्धः

नए निर्माणाधीन 17,500 वर्ग मीटर के प्रदर्शनी स्थल का उद्घाटन भी आज हुआ। मशीनी उपकरण उद्योग की संभावनाओं के बारे में आयएमटीएमए के अध्यक्ष तथा ज्योती सीएनसी ऑटोमेशन लि के अध्यक्ष एवं प्रबंधनिदेशक पी जी जडेजा ने कहा, “पिछले साल हमारे प्रधानमंत्री जी ने विनिर्माण आधार, तीन गुना बढ़ाकर वर्ष 2025 तक अमरीकी डॉलर 110 अरब करने हेतु पुंजीकृत माल की राष्ट्रीय नीती को बदला, साथ ही रक्षा एवं हवाई क्षेत्र के समेकन की क्षमता की वजह से अधिक क्षमता के मशीनी उपकरण की ज़रूरत बढ़नेवाली है। आयएमटीएमए के प्रदर्शनी अध्यक्ष ए जमशीद गोदरेज ने कहा, “आयएमटीएमए और टूलटेक के इस संस्करण में आगंतुक उभरते हुए संकर मशीन, 3 डी छपाई, इंडस्ट्री 4.0 तथा और भी बहुत कुछ देख पाएंगे।

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### एक बहुप्रतिक्षित व्यापार मेला

“इमटेक्स को विशेष बनानेवाली एक बात यह है कि ‘सक्रिय मशीन’ को देखने हजारों आगंतुक यहां आते हैं और वें अपनी ज़रूरतों के अनुसार अपने लिए उचित उपाय चुनने का निर्णय ले सकते हैं,” डॉ नौशाद फोर्ब्स, अध्यक्ष, सीआयआय ने जानकारी देते हुए कहा। इस प्रदर्शनी में 1000 से भी ज़्यादा मशीनों को चलाकर दिखाया जाएगा, जिससे एक लाख से भी अधिक आगंतुकों की प्रदर्शनी में आने की उम्मीद की जा सकती है।

कार्नाटाक प्रमुख अतिथि, ज्योती सीएनसी ऑटोमेशन लि के अध्यक्ष एवं प्रबंधनिदेशक पी जी जडेजा ने कहा, “पिछले साल हमारे प्रधानमंत्री जी ने विनिर्माण आधार, तीन गुना बढ़ाकर वर्ष 2025 तक अमरीकी डॉलर 110 अरब करने हेतु पुंजीकृत माल की राष्ट्रीय नीती को बदला, साथ ही रक्षा एवं हवाई क्षेत्र के समेकन की क्षमता की वजह से अधिक क्षमता के मशीनी उपकरण की ज़रूरत बढ़नेवाली है। आयएमटीएमए के प्रदर्शनी अध्यक्ष ए जमशीद गोदरेज ने कहा, “आयएमटीएमए और टूलटेक के इस संस्करण में आगंतुक उभरते हुए संकर मशीन, 3 डी छपाई, इंडस्ट्री 4.0 तथा और भी बहुत कुछ देख पाएंगे।

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trägern aus unterschiedlichen Sektoren und hochrangigen Regierungschefs besucht

In seiner Eröffnungsrede meinte Shri Siddaramaiah, Hauptgast und Ministerpräsident von Karnataka, dass: “BIEC hat die gleiche Veranstaltung zum ersten Mal im Jahr 2007 veranstaltet, und seitdem hat die Ausstellung, ein Tor für Investitionen in Karnataka eröffnet.” DV Prasad, zusätzlicher Staatssekretär, Wirtschaft und Industrie Ministerium der Karnataka Regierung, erinnert an die besondere Bedeutung der Stadt Bangalore, “Werkzeugmaschinen haben ihre Wiege in Bangalore. Die Industrie ist bereits gereift und trägt zu fast der Hälfte des Landes Werkzeugmaschinen-Produktion.”

### Engagement für das Wachstum

Die neu errichtete 17.500 qm Halle wurde auch gestern eingeweiht. Im Bezug auf die Aussichten der Werkzeugindustrie, teilte PG Jadeja, Präsident, IMTMA & CMD, Jyoti CNC Automation Ltd, mit: “Im vergangenen Jahr hat unser Premierminister die nationale Politik für Investitionsgüter erleichtert. Das klare Ziel dabei ist die Verdreifachung der Umsatz die Fertigungsindustrie und die Steigerung auf USD 110 Milliarden bis 2025. Dies und die laufende Konsolidierung in der Verteidigung und Luft-und Raumfahrt-Sektoren, wird die Notwendigkeit für Werkzeugmaschinen mit höheren Leistungen weiter steigen.

Jamshyd N Godrej, Vorsitz Messen, IMTMA, fügte hinzu: “In dieser Ausgabe von IMTEX & Tooltech werden die Besucher einige der aufkommenden Trends, wie Hybridmaschinen, 3D-Druck, Industrie 4.0 und viele mehr sehen.”

P. Ramdas, Vizepräsident der IMTMA und Geschäftsführer, Ace Manufacturing Systems Ltd, erklärte: “Wir versichern Ihnen, dass die indische Werkzeugmaschinenindustrie die indische Industrie verstärken wird und die Industrie auf internationalen Standards Ebene bringen wird.”

### Erwartete Ausstellung

“Was diese Messe IMTEX auszeichnet, sind die funktionierende Maschinen, die den Besuchern ermöglichen zu beurteilen und zu entscheiden, welche Lösungen für ihre Bedürfnisse am besten geeignet sind”, sagte Dr. Naushad Forbes, Präsident CII. Bei der Messe werden über 100.000 Besucher erwartet und mehr als 1000 Live-Demonstrationen der Maschinen werden auf der Ausstellung durchgeführt.

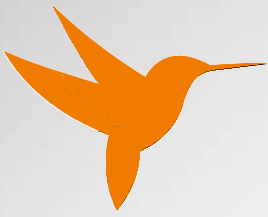
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**RSB Transmission, a global engineering organisation, wanted to optimise its overall costs. They turned to trusted partners Blaser Swisslube for working on a solution. Read on to know more.**

In 1975, two brothers—RK Behera and SK Behera—scripted the story of RSB Transmission at Jamshedpur. It has since grown into a pulsating institution with manufacturing setups at Jamshedpur, Pune, Dharwad, Chennai, Pantnagar, Cuttack, Homer (USA) and Mexico. Developing solutions ranging from design to manufacturing of aggregates and systems for varied industries, the company wanted to

Source: Blaser Swisslube India Pvt Ltd



A view of RSB Transmission's shopfloor.

optimise its overall costs.

### Optimisation plan

Blaser Swisslube, one of its trusted partners, was called in to come up with a plan to help bring up a solution. The team from Blaser India studied the company's full machining process and came up with a process map to make improvements with the 'Liquid Tool proposition'. A few machines were identified for the test. On completion, the productivity of the machining process was improved in the range of 2–18 percent, resulting in a saving of 1.5 million per annum.

### A new outlook

Owing to the use of Blasocut emulsion component rejection on account

of corrosion was also eliminated. With the results attained, RSB Transmission is immensely satisfied with the extensive support being received from Blaser Swisslube's world class laboratory for monitoring of its centralised coolant systems.

### Brining in change

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2. Which Country developed first fiber laser cutting machine in the world?

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ANSWER 1: \_\_\_\_\_

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

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Hall 4, Booth A106

Die & Mould

## Showcasing Home-Grown TECHNOLOGY

**The Die and Mould Industry is becoming competitive, Vikas Taneja, Vice President - Marketing, Jyoti CNC Automation, sheds some light over the sector's current transformation.**

The Die & Mould sector in India has transformed drastically over the last few decades and today comfortably competes in the global market, however, new demand is causing it to up its game. "A huge opportunity exists for the Die and Mould Sector in India as a preferred source of supply for the growing demands from Global automobile, auto component, plastics, electronics Industries. This is also pushing the die and mould industry to adopt newer technologies to produce high quality and high precision moulds to gain the competitive edge," opines Taneja.

Ongoing trends & technologies

Speaking on technology trends in the sector, he adds, "High Speed Machining (HSM) is widely gaining importance as it helps achieve better accuracy and surface finish with reduced machining times. The technologically advanced Machine Tools from Jyoti, incorporating the HSM concept, is helping the Indian Die Mould Industry to competitively meet global challenges."

Describing the company's product selection at their booth, he says, "We are showcasing some of the advanced technology CNC Machine Tools, which are completely designed and manufactured in India. These will be available to the Industry at affordable and sustainable prices, which surely falls in line with the Government's 'Make in India' campaign."



**"A huge opportunity exists for the Die and Mould Sector in India."**

**Vikas Taneja**  
Vice President - Marketing  
Jyoti CNC Automation

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## Global Outlook

## TAIWAN PROMISES

## a better today for India

Taiwan has a penchant of quietly working behind the scenes and emerging with the latest technologies while the machine tool industry of India is growing by leaps and bounds. President, TAMI, C C Wang strongly believes that a collaborative approach between these two countries is bound to mutually benefit the machine tool industry of both Taiwan and India.

 Sharing his views on attending IMTEX 2017, President, The Taiwan Association of Machine Industry (TAMI), CC Wang, highlighted, "India's rapid economic development has increased the demand for machine tools. At IMTEX, Taiwan hopes to explore mutual opportunities to expand their business on the grounds of further cooperation."

## Importance of IMTEX

"IMTEX is illustrious for being the exhibition platform that brings together well-known metal cutting tool machine exhibitionists who look for expanding their businesses in India. We believe through bilateral cooperation between Taiwan and India, both countries can reach a win-win situation," emphasized Wang.

## Taiwan complements Indian initiative

With the IoT, Big Data and Artificial Intelligence-driven technological development, Taiwan has now started the fourth industrial revolution.

"There is a dependence on well-structured frame of machinery industry and information technologies. Taiwan is adept with its exquisite craft technique that reflects on its productivity," elaborated Wang. He further added, "Taiwan is enthusiastic about complementing the "Make in India" initiative by providing an advanced level machine technology momentum to the Indian machine market."

## Bilateral Gains

The Taiwan Custom Statistics report states that India is the 10<sup>th</sup> export country for Taiwan. "As Taiwan's major industry is cutting tools and components and India is a growing economy in this sector, Taiwan is keen to help India augment their machine productivity. This will be a vast opportunity for both countries to complement each others' prospects," stressed Wang.

## Global Outlook

## 台灣為印度承諾一個更好的明天

台灣工具機產業，一直以來默默的耕耘，致力於導入最新的技術，適逢印度的工具機工業正進入快速成長的階段。TAMI的主席，CC WANG堅信，兩個國家之間的合作方式必將使台灣和印度的工具機產業互惠互利。

 並且在此也分享了對於參加IMTEX 2017展覽的看法，台灣工具機產業協會(TAMI)主席C C WANG強調，"由於印度經濟環境正在快速的發展，也帶動了工具機需求的增加。在IMTEX展覽會上，台灣希望通過進一步的合作，讓彼此把握此一機遇，進而拓展整個產業的布局。"

## IMTEX展覽會的重要性

"IMTEX是一個非常傑出的展覽平台，匯集了世界知名的金屬切削刀具機械展覽會，各個公司都在尋求擴展在印度的業務。固我們相信，通過台灣和印度的雙邊合作，雙方可以達成雙贏的局面。"

## 台灣對於印度產業方向的補充事項

伴隨著物聯網，大數據和人工智慧輔助的技術提昇，台灣現在已經進入了第四次工業革命。"對機械工業和信息技術結構良好的框架做為基礎。台灣擅長其精湛的工藝技術，並反映在生產力，"王主席他更進一步的詳細補充道："台灣業界非常熱烈地期盼，能通過向印度工具機市場提供高端先進的機器技術來成就"印度製造"的大國計劃。"

## 雙邊效益

據台灣海關統計報告指出，印度已是台灣第十大出口國。"由於台灣的主要工具機產業屬於切銷工具和相關零組件，而印度正是此一產業需求正在不斷增長的經濟體，台灣非常期盼以此來幫助印度提高機器的生產效率。固這將是雙方之間透過取長補短，抓住彼此大好前景的巨大機會。"

## 引用

"台灣業界非常熱烈地期盼，雙方之間透過取長補短向印度工具機市場提供高端先進的機器技術來成就"印度製造"的大國計劃"



“ Taiwan is enthusiastic about complementing the "Make in India" initiative by providing an advanced level machine technology momentum to the Indian machine market.”

President, TAMI, C C Wang



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Country Pavilion - TAIWAN

# When TECHNOLOGY meets INNOVATION

Around 16 Taiwan-based machine tools and components manufactures have stepped into IMTEX 2017, to share the pie of the fast-expanding Indian market. We had the opportunity to seek their perspectives on the show.



### Carbide Tools

"We can provide industrial solutions and tools to many customers in India. Our objective at IMTEX 2017 would be to get more orders from this trade show and build a strong clientele base. We are showcasing the MU-GMM4000 & MU2-GMA3000 Series that feature a new high quality carbide rod and a control tolerance level of international standards. Also, the newly designed round flute can increase speed of operation with a guaranteed long life."

Hsien-Ning Huang (Mickey)  
Manager  
Echaintool Industry Co Ltd  
Hall 1B, Booth B116



### Coating Technology

"Speed Tiger is a well-known carbide end mills manufacturer in Taiwan. We also have product lines for indexable inserts, chucks and shrink fit systems. We offer the latest coating technology for use on good-quality end mills. Additionally, we are bringing the latest end mills designs to India, which can offer a total solution. We are releasing some new products at IMTEX such as the Sintering System and hope to find reliable agents here to offer our solutions for the Indian market."

Ms. Pearl Wu  
Sales Manager  
Speed Tiger Precision Tool Co Ltd  
Hall 1B, Booth B122



### Linear Actuator

"IMTEX is a highly potential platform in India, where we intend to showcase our latest offerings for the machine tool industry. PMI is devoted to manufacturing ballscrews, linear guideways, ball splines and actuators applicable to every industry. We can provide the best mechanical efficiency and quality service to customers. High rigidity, low noise and thermal control are important factors for a high-lead ballscrew. PMI's End Deflector Series-D type ballscrews have the patented design of plastic circulation system, which achieves the desired result of low audio frequency."

Rajiv Desai  
Superslides & Ballscrews  
Co India Pvt Ltd  
Precision Motion Industries, Inc  
(PMI) Distributor in India  
Hall 1B, Booth G101



### Gear System

"IMTEX is an enormous platform for showcasing the latest developments in technology. Our main objective is to tap the immense potential of the Indian market. This platform enables us to interact with over 1000s of exhibitors and many visitors. We can introduce our products and offer solutions for technologies that can cater to the needs of the Indian manufacturing industry. Sunus Tech Company is synonymous with the manufacturing of planetary gearbox, worm reducers, and rack & pinion that are essential in the machine tool industry."

Chung I-Hsuen  
General Manager  
Sunus Tech Co Ltd  
Hall 1B, Booth B112



### Source of Knowledge

"The grand IMTEX 2017 is the most comprehensive platform, which is presenting many next generation technologies and innovations on machine tools. Attending the show is worth to me. I'm gaining many new ideas and learning several strategies for future marketing promotion. This is an exceptional chance to gather the latest knowledge and creative ideas that can be used to promote our company."

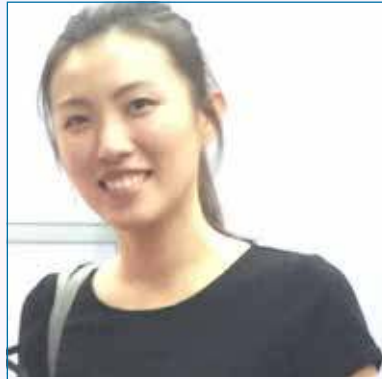
David Chuang  
General Manager  
Far East Machinery Co Ltd  
Hall 1B, Booth A116



**Tool Holders**

“Chain Headway offers over 22,000 machining products, such as SYIC tool holders, KOVIT cutters and inserts, and LEMMA aid tools. At the IMTEX 2017, we will present our latest products. The PNER DualDRIVE Series of tool holders has a 3-µm accuracy and superior rigidity, which will improve efficiency and extend tool life. Also, our PCD inserts are extremely durable during high-precision processing. Our main goal is to meet new distributors and build long-term relationships.”

Crystal Lin  
International Sales  
Chain-Headway Machine Tools Co Ltd  
Hall 1B, Booth B120



**Essential Tools**

“Chumpower Machinery Corp. offers all kinds of tools, which can be applied on drilling machine, milling machine, lathe, die, electric, pneumatic tool, pharmaceutical equipment etc. Our tools include keyless drill chuck, stainless steel key type drill chuck, stainless steel keyless drill chuck, spindle accessory, tapping chuck, tool holder and spray nozzle. We do original equipment manufacturing worldwide. However, via the immense opportunity a platform like IMTEX provides, now we expect to find agents in India to expand our company in the Indian market.”

Amanda Liu  
Region Sales  
Chum Power Machinery Corporation  
Hall 1B, Booth B114



**Tool Grindings**

“IMTEX 2017 is a bridge between India and Taiwan. We expect it to be a huge success for us especially the Taiwan pavilion. We are immensely hopeful that the number of visitors and buyers will be as high as anticipated. This will increase our chances of doing business in India – as we hold the Indian market in great reverence because of its ever-expanding nature. We look forward to forge some new partnerships with Indian companies. We are exhibiting FC-200D PCD/PCBN, which is a tool grinding machine.”

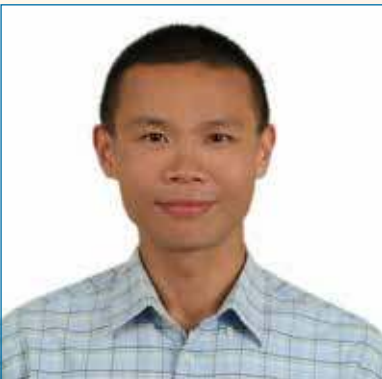
Wei Chih-Yuan  
Factory Director  
Farman Machinery Industry Co Ltd  
Hall 1B, Booth B110



**Die Sinker**

“CHMER is Taiwan's first as well as world's fifth EDM manufacturer. This time in accordance with the need of the Indian market in particular, we are exhibiting EQ425L, gantry type linear motor wire cut EDM, and D433CL, Z axis linear motor die sinker EDM that will appeal to the customer's target concerns of high-accuracy, fine surface roughness, green manufacturing and energy saving. In particular, for the workpieces of 3C, IT, automotive, medical, aerospace, and other moulds and parts processing products requiring higher accuracy, CHMER is your best choice.”

Ms. Miga Wang  
Sales Manager  
Ching Hung Machinery & Electric Industrial Co Ltd  
Hall 1B, Booth B115



**Surface Grinder**

“IMTEX 2017 will be a good enabler for participants to know each other's capacity and ability to cater to the needs of the parties. All should put forward their thoughts and convictions to this gathering, so that they can explore how to enhance business benefits. Also, we shouldn't forget that at this type of platforms a stable regional cooperation is necessary to forge meaningful partnerships with member countries. At IMTEX 2017, we are presenting a surface grinder, which is used to produce smooth finish on flat surface.”

Chien-Ming, Lo  
Vice Sales Manager  
Seedtec Machinery Co Ltd  
Hall 1B, Booth B124



**Grinding Machine**

“Supertec' s products range from cylindrical grinders, internal grinders, centerless grinders, surface grinders, double-column surface grinders to special-purpose grinders. Our philosophy is to provide the best in quality along with the latest innovation. Grandmaster 35 is a complex machine that can do external, internal, shoulder and face grinding in one single operation. India being a developing country with an ever-expanding machine tool market, via IMTEX 2017, we would like to take this opportunity to introduce our company to the Indian market.”

Betty Chu  
Director of Business Department  
Supertec Machinery Inc  
Hall 1B, Booth B118



**Worm Gears**

“At this IMTEX 2017, Essor International is introducing gear grinding and tool grinding machines. We will also be displaying worm gear and rotary table. As a participating nation, we expect the show to be full of product / information and proper market linked for future business portfolio. Our expectation is to meet potential worm gear customers and improve our presence in India. IMTEX is a powerful summit that is very helpful to forge partnerships in the backdrop of global and regional economic development.”

Michael Lee  
Sales  
Essor International Inc  
Hall 1B, Booth B108



Source: Magic Wand Media Inc

**Grind Master Machines Pvt Ltd**  
[www.grindmaster.co.in](http://www.grindmaster.co.in)  
 Hall 2A, Booth A110

Felicitations

## From Garage to Global!

**This year, the IMTMA – Premier Outstanding Entrepreneur Award, in Memory of Vinod Doshi, was presented to Milind Kelkar, Managing Director, Grind Master Machines Pvt Ltd and Mohini Kelkar, Director (Sales & Marketing), Grind Master Machines Pvt Ltd, the duo behind Grind Master, in recognition of their visionary pursuit of entrepreneurial excellence and their unique leadership style. Here’s an overview of their accomplishments so far...**

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In 1984, a young engineering duo—Milind Kelkar and Mohini Kelkar—decided to start their own company—Grind Master. It was established by in 1984, in a garage with a meagre investment of ₹25,000. The company has since metamorphosed into global technology leader in metal finishing through the passion, innovation and expertise of the Kelkars.

**The journey so far**

Over three decades of path-breaking entrepreneurial abilities of the Kelkars have made Grind Master into a globally recognised machine tool company with multiple manufacturing units and a customer base across six continents. As Grind Master continues to foray into new businesses, the legacy continues through their son, Sameer Kelkar, who aspires to take it to the next level.

Turn-Mill Centre

## BFW to Address INDIA’S TECHNOLOGY GAP

**Several rapidly developing Indian companies are in need of high-end machining centres...**

Bharat Fritz Werner (BFW); a leading Indian machine tool company, wholly owned by the Kothari Group; is all set to acquire the technology for manufacturing Multi-process Machining Centres in India. The technology being acquired by BFW under license from GMTK, Spain, will enable it to develop machines for heavy duty components typically being used in Energy, Defence, Process plants, Ship building and Aerospace segments.

“The market in India especially in segments like Defense, Aerospace and Energy are looking for multi-process machining technologies, and GMTK is quite well-known for its technology,” says Praful Shankar Shende, Chief Sales & Marketing Officer, BFW on the new-forged alliance. Currently India lacks this

type of technology for producing such high-end turn-mill centres.

A typical multi-process machining centre is capable of doing both – rotating-workpiece operations (turning) and rotating tool operations such as milling, cross-drilling, tapping, threading, knurling, boring and grooving. Igor Vitoria, CEO, GMTK Multi-process Machining adds that the acquired technology will help build machines that can work regular as well emerging material, including inconel, hastelloy, titanium and various composite materials. Shende posits the technology tie-up as a move to bolster the Government’s Make In India programme by empowering Indian manufacturers with state-of-the-art technology that will enable them to manufacture high-end products within the country.



**Bharat Fritz Werner (BFW)**  
[www.bfwindia.com](http://www.bfwindia.com)  
 Hall 1A, Booth A102



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# Announcing the strategic **Technology Partnership** for **Multi-process Machining Technology**



## Integral system for changing of tools heads & accessories



## Accessories



## Integration of machining processes & strategies



## Services

- Training
- After sales service

## Applications





**Atlantic Lubricants & Specialities Pvt Ltd**  
www.motul.com  
Hall 3C, Booth C104



Source: Atlantic Lubricants & Specialities Pvt Ltd

**Lubricants**

## Cutting Fluids for TITANIUM

**Machining of titanium alloys need 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 Motul Tech is a high performance multipurpose fine emulsion soluble concentrate that has a high 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. 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.

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



Source: United Grinding Group AG

**Erosion Technology**

## Perfecting the art of FINISHING

**New erosion method to meet heightened requirements for the surface quality.**

Fine Pulse Technology significantly boosts surface and cutting edge quality, resulting in overall tool performance reliability in the production of polycrystalline diamond (PCD) metalworking tools. All UNITED GRINDING's WALTER erosion machines, such as those in the HELITRONIC line, will offer the new technology. Eroding systems with Fine Pulse Technology produce tools with smoother, more perfect exteriors and cutting edges along with super-fine finishes that match the level of visible shine generally reserved for polished tools. Such results eliminate re-grinding and polishing steps during cutting tool production to help increase output. Fine Pulse Technology finely finishes tools made from the most common PCD types with 10 µm grain size and from coarse-grained types as well.

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**Additive Manufacturing**

## TRADE AND INVESTMENT Through Innovation

**Renishaw's new products boon to industry.**

Dominic McAllister, the British Deputy High Commissioner, Bengaluru, highlighted Renishaw's commitment to the Indian Market at the product launch at the company's booth. He asserted, "It gives me great pleasure to be here today with a company that exemplifies all that is good in the UK-India trading relationship. Renishaw has been trading in India since 1983 and today it employs 350 highly skilled people across the country." Of the products launched, the RenAM 500M, an additive manufacturing system, can

manufacture serialised complex metal components directly from CAD using metal powder fusion technology. The new XM-60 multi-axis calibrator, capable of measuring all six degrees of freedom from a single set-up, in any orientation for linear axes. The new vision measurement probe (RVP) for use with the REVO-2 5-axis measurement system on co-ordinate measuring machines that enable non-contact inspection of thin sheet metal parts, components with large numbers of holes, and parts which are not suited to tactile measurement.

**Renishaw Metrology Systems Ltd**  
www.www.renishaw.co.in  
Hall 3A, Booth B123



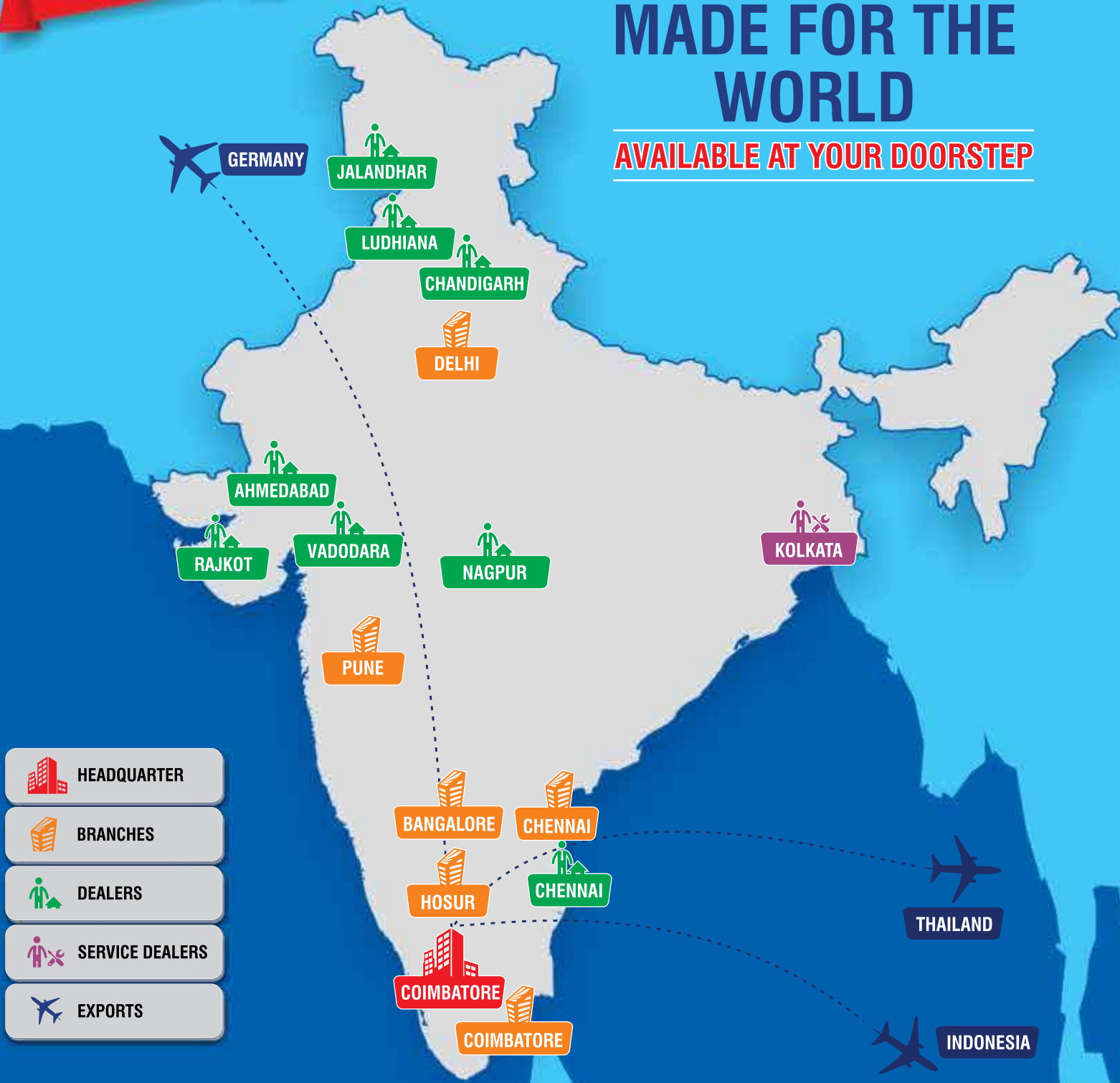
Source: Renishaw Metrology Systems Ltd

Dominic McAllister, the British Deputy High Commissioner, Bengaluru and Nayan Patel, Manager -Additive Manufacturing Solutions Centre, Renishaw Metrology Systems Ltd at the product launch.

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**Manufacturing Leadership**

# Lessons on the **WORK FRONT!**

**Two industry stalwarts share their experience testing and riding the waters to success!**



**Kapil Dhand**  
**Managing Director**  
**Micromatic Grinding Technologies Ltd (MGT)**

If there is anything to learn from the business volatility of 2016, it is that 'change is the new normal'. Our company has made an effort to align the whole organisation for meeting short and long term objectives of cost, delivery, quality & service.

Further to this, being inclusive with academia and the Government has brought about key critical technologies for enabling achievement of higher precision in Grinding.

One such project was the 'Next Generation Precision Grinder (NGPG)' funded by the Principal Scientific Advisor to the Government (PSA) & IIT-Chennai. Noting that the machine tool sector is starved of international knowledge transfer and collaboration owing to its application in defence, the project is a successful step towards developing high-end defence technology within the country. Hence, "Improve through Precision!"



**T P Shridhar**  
**CEO**  
**ACE Designers Ltd**

The positive growth track during the first half of the last financial year was somewhat delayed by the sudden demonetisation move. Small-sized buyers were the most affected by the move, while the high volume market for smaller machines continues to be affected. The move highlighted the importance of having presence in various segments of the market to minimise dependency on one particular segment.

At ACE Designers, we tried to offset the impact by maximising the business through price competitiveness and cost reduction, robust monitoring of the inventory, and more aggression on exports.

A major requirement to compete globally is to make the entire chain of component manufacturing, machine building, reliability of machines and (importantly) accessories more robust. Manufacturers need to achieve growth locally and expand on exports initiatives. Hence, "Get aggressive on Exports!"

20

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**IMTMA Technology Centre**  
 Indian Machine Tool Manufacturers' Association  
[www.imtmatraining.in](http://www.imtmatraining.in)

[training@imtma.in](mailto:training@imtma.in)

Laser Welding

# Convergence of Metals

## Laser machine processes hardest materials available.

The SLTL Laser Welding Machine is the latest magnum opus from a company with capability of converging several metals and materials with ease. The machine has 1070 μm wavelength and operates with pulsed as well as continuous waves with laser beam width of 50 μm to 200 μm. The efficient QCW fibre laser is capable of processing even the hardest of material. The machine works at high liner

processing speeds and enables the welding at minimal component distortion. Immense pulse power and consistent energy stability differentiates the SLTL laser welding machine from its contemporaries. This machine marvellously processes various metals such as copper, aluminium, SS and MS. It is capable of drilling, cutting, spot welding and seam welding.



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



Source: Magic Wand Media Inc

**Congratulations Lucky Draw Winners—Amitabh Basu, GM, MIC Machine Tools and Purshotham, Rotary Electronics Pvt Ltd, winners of the lucky draw at the SLTL Booth.**

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| CNC HEAVY DUTY LATHE                                                                | A15/25                                                                              | BIG BORE GRINDER                                                                     | AUTO LOADING                                                                          | HYDRAULIC / PLC                                                                       |
|  |  |  |  |  |
| SC-12 Ø400 CHUCK                                                                    | TD36                                                                                | ID / OD GRINDER                                                                      | LONG SHAFT GRINDER                                                                    | CREEP FEED GRINDER                                                                    |

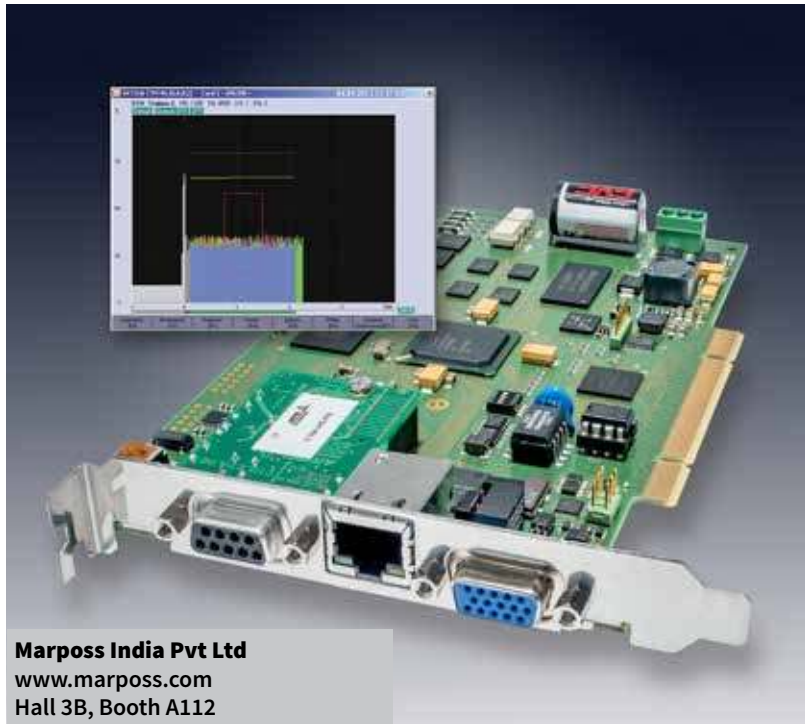
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**Marposs India Pvt Ltd**  
www.marposs.com  
Hall 3B, Booth A112

Source: Marposs India Pvt Ltd

**Monitoring System**

## Evaluate Your PROCESSES

### New tool optimises and documents machining

MARPOSS introduces the ARTIS CTM V6 process monitoring system at IMTEX 2017. The system, with a range of strategies for in-process monitoring and compensation of tool wear, safeguards complex production processes. Interfaced with machine control, the V6 accepts inputs from various measuring transducers. From gear hobbing to deep-hole drilling, the flexible interface concept enables problem-free integration with many options, from entry solutions with no fieldbus connections to branched Ethernet architectures. Tool related and process documentation provided by the CTM V6 system is based on precise data. Visualisation software enables thorough evaluation of processes in a user-friendly manner. Main benefits include comprehensive protection of tools and machines; process optimisation; lower unit costs with reduced number of rejects; perfect adjustment even in complex processes; and seamlessly documented component quality.

**Horizontal Machining Centres**

## NEW GENERATION HMC

### LMW's JHM40 is a new generation Horizontal Machining Centre of compact design

Today's machine shops are challenged with the need to respond to customer requirements from a variety of industries to produce parts of varying material composition, volumes and complexity.

Lakshmi Machine Works' latest Horizontal Machining Centre, JHM 40 is the answer to these requirements. This is a new generation machine of very compact design and twin pallets with an index table and moving column. It is designed and optimised using the latest FEM software to enhance rigidity and eliminate vibration damping effects. This machine comes with 400 x 400 mm twin pallets with a 1 degree index table. The strokes travel in X – 500 mm, Y – 500 mm and Z – 500 mm axes, with a BT 40 taper spindle and 8000 rpm spindle speed.



**Lakshmi Machine Works Ltd**  
www.lakshmimach.com  
Hall 2A, Booth A106

Source: Lakshmi Machine Works Ltd

**Tool Holder**

## SHRINK-FIT Technology Improves Chuck's Performance

### New Power Clamp range makes tool clamping easy, fast and precise.

IMTEX 2017 will see HAIMER display its Power Clamp range. The company has been leading in the development of inductive shrink technology for tool holders.



Source: Haimer India Pvt Ltd

**Haimer India Pvt Ltd**  
www.haimer.com  
Hall 3B, Booth B103

The shrink fit technology has the company's patented coil technology in conjunction with the intelligent power electronics at its core. Perfectly coordinated assembly groups and electronic components make sure that only the clamping area of the chuck is heated in the shrinking process. This reduces the shrinking and cooling cycle to a minimum.

The spectrum of the machines ranges from the beginner model, Power Clamp Basic, to the high-end device—Power Clamp Premium Plus.



**Geedee Weiler Pvt Ltd**  
www.gdweiler.com  
Hall 2A, Booth B103

Source: Geedee Weiler Pvt Ltd

**CNC Lathe**

## FLEXIBILITY in Operation

### Innovative and cost effective, Flex Turn Neo can be easily adapted to suit customer requirements.

Flex Turn series of CNC lathes from Geedee Weiler—an Indo-German venture—come with linear tooling arrangement or eight station turret coupled with an independent live tool. This provides a combination of turning/milling operations that help in reducing manufacturing costs per component. For specific applications like slot milling, face

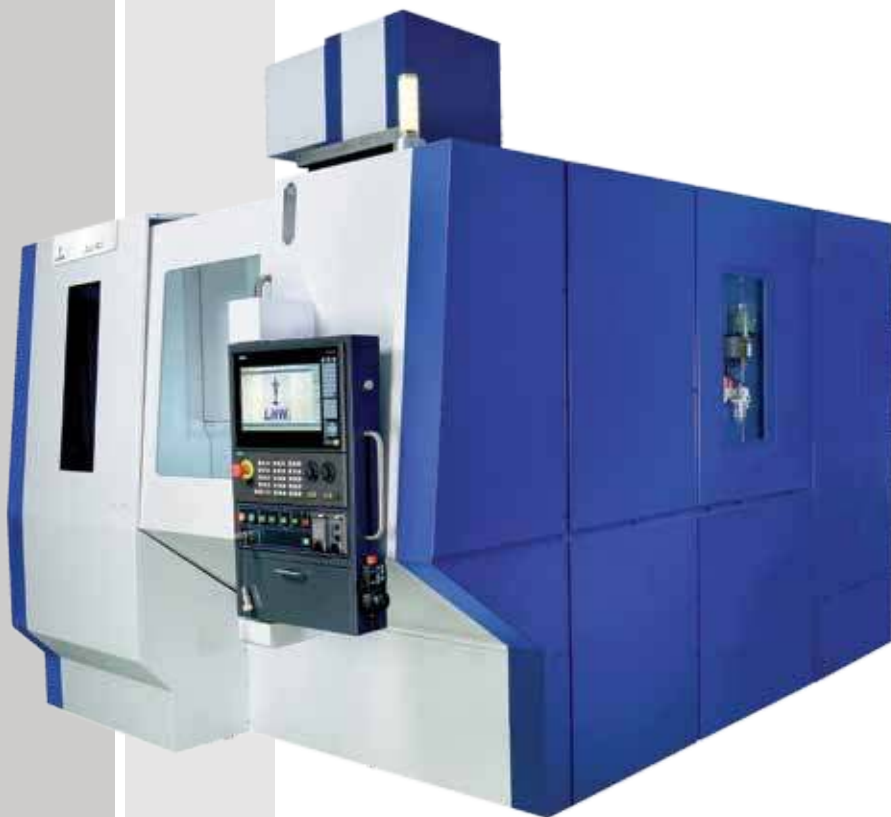
drilling/threading, profile contouring, one separate set of live tools is provided with an independent servo motor and drive. With unsurpassed manufacturing speed and accuracy, the machine is highly suitable for manufacturing medium size parts for the automobile, agriculture, surgical equipment and aerospace sectors.

# Introducing JU40



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- Highest level of accuracy & repeatability
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**MACHINE TOOL DIVISION**

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.

24

Zavenir Daubert India Pvt Ltd  
www.zavenir.com  
Hall 3B, Booth B109



CONNECT  
An awareness programme on manufacturing

For Fresh Engineers

Building Career in Manufacturing

Listen to the Inspiring Talks from the 'GURUS' of Machine Tool Industry

i2 Academia pavilion @ HALL - 4

| Date        | Session 1<br>CEO Connect<br>(1600 - 1630 hrs.) | Session 2<br>Industry Connect<br>(1645 - 1715 hrs.) |
|-------------|------------------------------------------------|-----------------------------------------------------|
| 27 Jan 2017 | <b>BFW</b><br>Mr. RAMESH BABU                  | <b>CADEM</b><br>Mr. DASARATHY                       |
| 28 Jan 2017 | <b>KENAMETAL</b><br>Mr. BC RAO                 | <b>FANUC</b><br>Mr. BALAKRISHNAN                    |
| 29 Jan 2017 | <b>AGE</b><br>Mr. SG SHRIDHAR                  | <b>TaeguTec</b><br>Mr. L KRISHNAN                   |
| 30 Jan 2017 | <b>JYOTI</b><br>Mr. PG JADEJA                  | <b>UCCM</b><br>Mr. INDRADDEV BABU                   |
| 31 Jan 2017 | <b>AceMicramatic</b><br>Mr. TK RAMESH          | <b>MAKINO</b><br>Mr. RAGHAV BADIYA TV               |

Register at student registration counter at Entry Plaza



BUYER-SELLER MEET

When the world is at YOUR DOORSTEP!

For the first time in the history of IMTEX, an International Buyer Seller Meet has been organised. The Indian Machine Tool Manufacturers' Association (IMTMA) has joined hands with EEPIC India and under the aegis of Ministry of Commerce and Industry, Government of India, to make this event a reality. Increase your chances to secure contracts and expand your business with the opportunity to interact with around 60 overseas buyers from 19 countries are participating in this event.

Participating Countries

|                |             |           |         |
|----------------|-------------|-----------|---------|
| BANGLADESH     | IRAN        | POLAND    | UK      |
| BELGIUM        | ITALY       | RUSSIA    | USA     |
| CZECH REPUBLIC | JAPAN       | SPAIN     | VIETNAM |
| GERMANY        | SOUTH KOREA | SRI LANKA | TURKEY  |
| INDONESIA      | MEXICO      | THAILAND  |         |

Location of Buyer-Seller Meet

Hall 3C (Rear side)

B2B Meeting Slots

27 January 2017

1030 hrs – 1300 hrs

B2B Meetings / Networking session with international buyers (Strictly on 'first-come-first' basis)

28 January 2017

1000 hrs – 1200 hrs

B2B meetings / Networking session with international buyers

1600 hrs – 1800 hrs

(Strictly on 'first-come-first' basis)

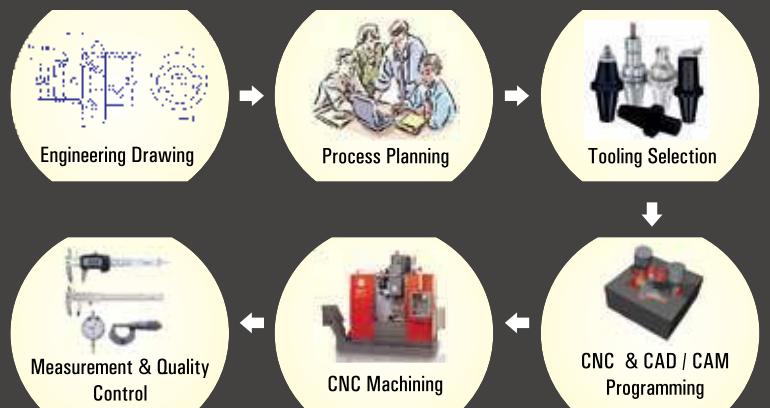
Skill India @ IMTMA MAKING ENGINEERS INDUSTRY READY

Finishing School in Production Engineering

Duration : 4 Weeks



Hands-on training for Junior Engineers, Supervisors, Industry Recruits & Engineering Diploma Students from Mechanical and Allied Disciplines



Course Schedule @ Bangalore :  
February 2017 | April | June | August  
October | December | January 2018 | March

Course Schedule @ Pune :  
June 2017 | July | August | December  
February 2018

www.imtmatraining.in  
training@imtma.in

IMTMA Technology Centre  
Indian Machine Tool Manufacturers' Association  
www.imtmatraining.in

## iSMART Factory™

Today manufacturers everywhere face many challenges – constantly striving to reduce production costs, increasing the use of automation, a growing shortage of skilled employees among many others. The Mazak iSMART Factory™ technology can be used to meet manufacturers' demands to establish production plants compatible with IoT. By utilizing advanced Mazak's machines together with software, we can effectively support your goal of realizing data-driven manufacturing.



### SMOOTH CAM RS

#### Programming

- Prepare Programs
- Simulation
- Interference Check
- Cycle Time
- Required Tools list



### SMOOTH SCHEDULER

#### Scheduling

- Production Schedule for each machine
- Load display for each machine
- Higher utilization



### SMOOTH MONITOR

#### Machining

- Real time machine status
- Remote Monitoring



### SMOOTH TOOL MANAGEMENT

#### Tool Setup

- Comprehensive factory tool data management
- Tool Status monitoring in each machine



### SMOOTH P M C

#### FMS Operation

- Automatic operations of PALLETECH
- Monitoring Status
- unmanned operation for maximum productivity



Visit us @ **IMTEX 2017**

» Hall 3A / Stall A108

CAD/CAM

# HELPING CUSTOMERS Achieve their Goals

**Mastercam is back at the leading machine tool show with their latest products and technologies, and Vineet Seth, Managing Director - South Asia & Middle East, Mastercam India, expects this edition of IMTEX & Tooltech to be bigger and better than before.**

Mastercam is using IMTEX as a platform to discuss advanced machining and allied solutions for industry specific requirements. The company is displaying the latest version of their flagship product, Mastercam 2017, featuring a new suite of programming tools focused on delivering speed, automation, and efficiency. "It includes Dynamic Motion improvements, Multi-axis and Mill-Turn enhancements, and many Design and system features to make using the software, and machining easier," Seth informs.

The company will also display their latest version of Lathe, Mill, Wire and Robotic machining. "We will demonstrate the capability of our software—live at our booths, as well as on the machines at

some of our machine tool partners' booths," adds Seth.

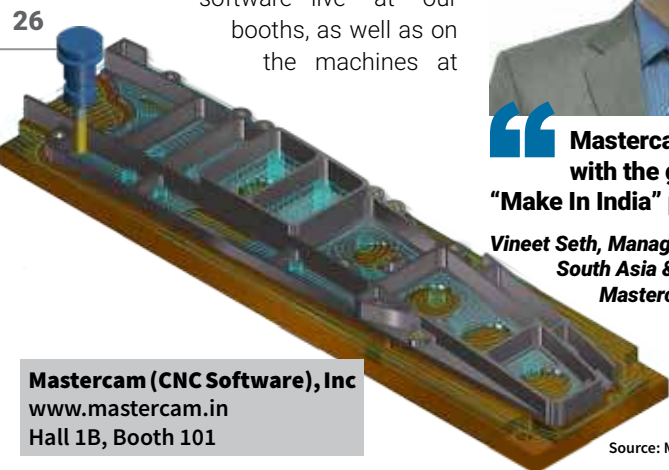
**Aligning with national goals**

Seth maintains that Mastercam India is aligned with the government's "Make In India" policy. "We have plans to build a vertical organisation that will help customers in their transition to Industry 4.0," he explains, concluding, "Our knowledge base will help Indian companies gain access to modern manufacturing technology, locally."



**Mastercam India is aligned with the government's "Make In India" policy.**

*Vineet Seth, Managing Director - South Asia & Middle East, Mastercam India*



**Mastercam (CNC Software), Inc**  
www.mastercam.in  
Hall 1B, Booth 101

Source: Mastercam (CNC Software), Inc



## 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**

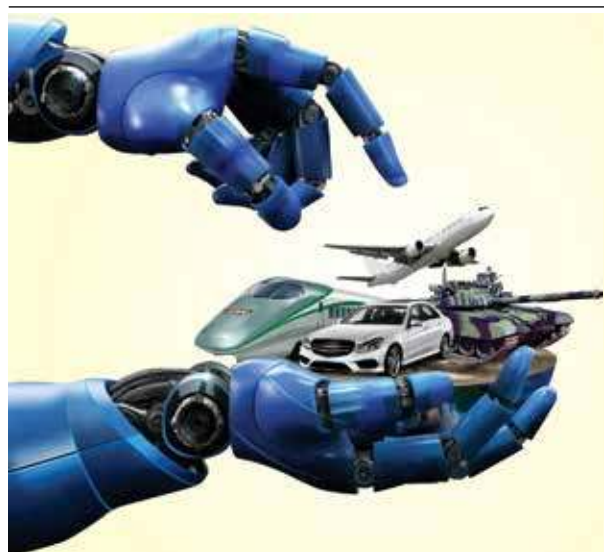
**Mobile: +91 9886611007 or Email : abhishek@imtma.in**

Registration for participation must be made Online only.

To register logon to [www.imtma.in/ssm](http://www.imtma.in/ssm)



Indian Machine Tool Manufacturers' Association  
www.imtma.in



## Empower Manufacturing

**Experience Delhi Machine Tool Expo 2017**




10 - 13 August 2017  
Pragati Maidan, New Delhi

Speical Pavilion



Delivered by the organizer of **IMTEX**

Organizer  Indian Machine Tool Manufacturers' Association

Stall Bookings Open  
Contact Camp Office  
in Hall 1



# Spain Pavilion at IMTEX 2017

January 26 - February 1.

Bangalore International Exhibition Center

**Hall 1B**



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## tachyon<sup>1</sup>

/tæki.on/ or tachyonic

noun

1. is a hypothetical particle that always moves faster than light. Conceptualized by a team of scientists Which includes Indian scientists (Mr. V.K. Deshpande and Mr. E.C.G Sudarshan) in 1962.



Ta(e)ch nology is On

# TACHYON



DEMONSTRATING • LIVE

## Hall 4

at Jyoti Pavilion



**New Era Begins** for  
the High Dynamic Drill Tap  
Applications...!