



CONCURRENT SHOW



26 JAN - 1 FEB 2017

SHOW DAILY

The official showdaily of IMTEX 2017

DAY 1 | THURSDAY, JANUARY 26, 2017

For Private Circulation Only

PUBLISHED BY



Indian Machine Tool
Manufacturers' Association

VENUE



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Indian Machine Tool
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PLUS HIGHLIGHTS OF THE DAY

- ➔ Flag Hoisting Ceremony – 9:45 - 10:00 am – Near Food Court
- ➔ Exhibition Opening Ceremony – 3:20 - 5:30 pm – "Jacaranda" Hall - Conference Centre
- ➔ Inauguration of New Exhibition Hall – 4:55 - 5:10 pm – Hall 4
- ➔ Ribbon Cutting Ceremony & Visit to Exhibition Halls – Exhibition Hall 1



Technology Showcase

Building a STRONGER COMMUNITY

IMTEX 2017 has opened its doors once again to bring to the forefront the best the Machine Tool sector has to offer from the world over. Like all its previous editions, the exhibition will be a testament to innovation, R&D and collaboration.

IMTEX is South East Asia's largest machine tool exhibition; this year the show will witness the addition of a newly constructed hall (measuring 17,500 sq mt) making the total area of the exhibition 66,000 sq mt. The exhibition will run from January 26, 2017 to February 1, 2017, at the Bangalore International Exhibition Centre (BIEC) in Bengaluru.

Global participation

Organised by the Indian Machine Tool Manufacturers' Association (IMTMA), the 18th edition will witness participation of around 1000 exhibitors from 22 countries across the globe. V Anbu, Director General & CEO, IMTMA, speaking on this edition of the show, said, "We are expecting footfalls to exceed 1,00,000 and the presence of around 100 trade delegations from public and private sector companies. As always we believe in raising the bar and



Technology and innovation have always come first at IMTEX.



Source: IMTMA

Technology Showcase

एक मज़बूत समुदाय का निर्माण

इमटेक्स 2017 ने फिर एकवार दुनियाभर से मशीनी औज़ार क्षेत्र की उमदा उपलब्धियों सामने लाने के लिए एक मंच उपलब्ध किया है। पिछले प्रदर्शनीयों की तरह यह प्रदर्शनी भी नवीनीकरण, संशोधन एवं विकास तथा सहकार्यता की गवाही देगा।

इमटेक्स दक्षिणपूर्व एशिया की मशीन औज़ार की सबसे बड़ी प्रदर्शनी है। इस साल नवनिर्मित 17,500 चौ मी के साथ प्रदर्शनी का क्षेत्रफल 66,000 चौ मी होगा। यह प्रदर्शनी बेंगलुरु के बेंगलोर आंतराष्ट्रीय प्रदर्शनी केन्द्र

Technology Showcase

建立一個更強大的社 群

IMTEX 2017再次開大了大門，迎來了從世界各地工具機領域所提供的最好的尖端研發。並與之前的展覽保持同樣的精神，這次展覽將呈現出創新，研發和合作。

IMTEX已經是東南亞最大的工具機展覽；今年的展會將增加一個新建成的展場大廳（面積達17,500平方米），將使總展覽面積超過66,000平方米。展覽將於2017年1月26日至2017年2月1日

Technology Showcase

Aufbau einer stärkeren GESELLSCHAFT

Durch die Eröffnung der IMTEX 2017, werden wieder die besten Technologien der Welt aus der Werkzeug Branche vorgestellt. Wie bisher, wird die Messe die neuste Innovationen, Forschung und Entwicklungen und Partnerschaften hervorheben.

IMTEX ist Süd-Ost Asiens größte Werkzeug Ausstellung. Dieses Jahr bekommt die Ausstellung einer zusätzlichen Halle (ca. 17,500 qm.) und damit ein gesamte Fläche von 66,000 qm. Die Ausstellung findet zwischen 26. Januar 2017 und 1. Februar 2017 in der Bangalore International Exhibition Centre (BIEC), Bengaluru, statt.

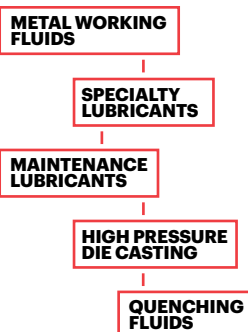
Internationale Teilnahme

Die "Indian Machine Tool Manufacturers' Association (IMTMA)" organisiert die 18. Auflage diese Ausstellung. Knapp 1000 Aussteller aus 22 Ländern werden bei der IMTEX 2017 Ihre Technologien ausstellen.

Herr V Anbu, General Direktor und CEO, IMTMA, sagt "Wir rechnen mit knapp 100,000 einzelnen Besuchern und um 100 Wirtschaftsdelegationen aus Öffentlicher Sektor und Industrie Sektoren. Wir haben die Messlatte hochgesetzt und wir sind uns

To be continued on 6 ▶

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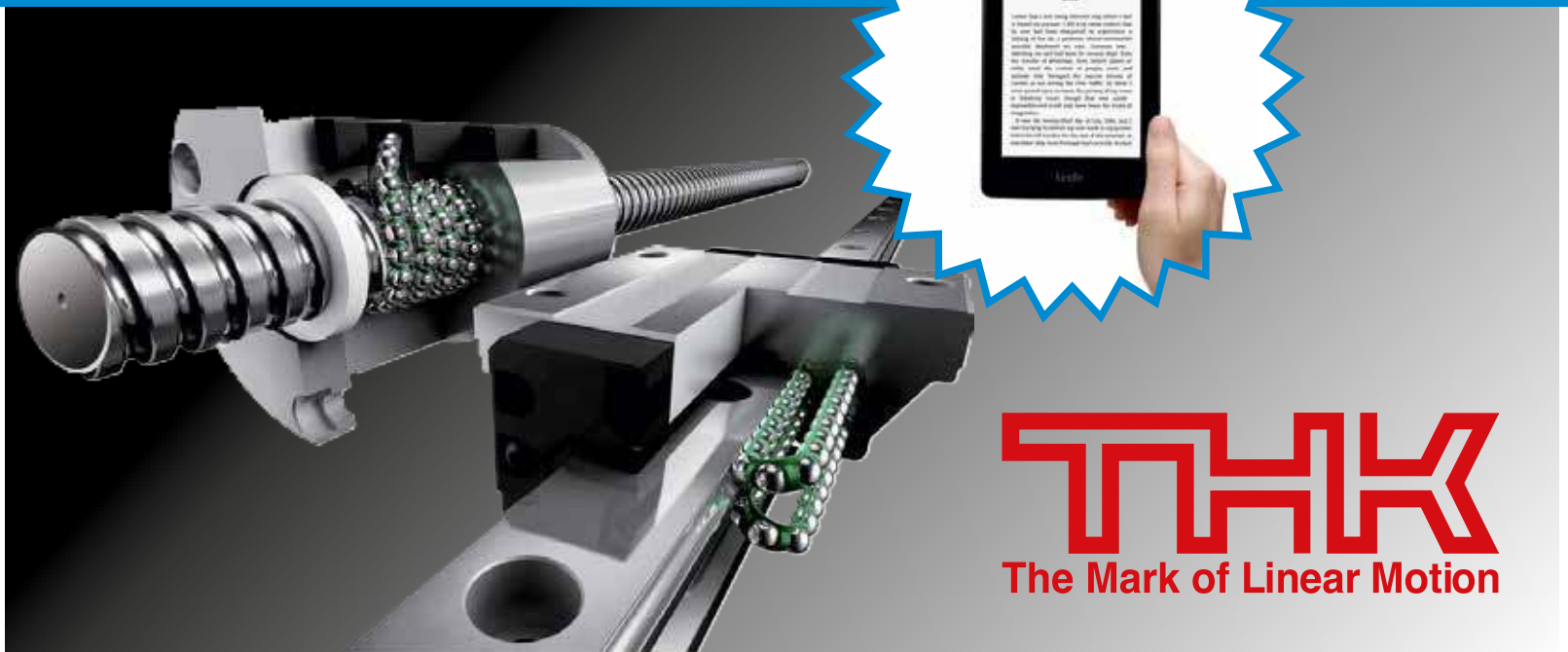
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“At IMTEX, Indian companies showcase their products and product improvements, which reinforces the machine tool industry's commitment to 'Make in India'.”

PG Jadeja
President, IMTMA, and CMD,
Jyoti CNC Automation Ltd



“IMTMA will continue to work towards technology adoption, increasing efficiency and innovation in the machine tool sector.”

V Anbu
Director General & CEO,
IMTMA



“IMTEX is the only exhibition in the world where the organizers also own the exhibition space. BIEC is equipped to host international quality exhibitions.”

Dr. Andreas Gruchow
Member of the Managing Board
of Deutsche Messe AG, Hannover



“The Indian sub-continent is a high potential market for industrial opportunities and profitable investments for German Machine Tool companies.”

Christoph Miller
Managing Director
EMO Hannover, VDW

From page 1 ▶

setting standards for ourselves and I am confident that we will be able to achieve the high standards that we have set for ourselves.”

6 Platform for growth

Speaking on the role the exhibition plays in the growth of the country, PG Jadeja, President, IMTMA, and CMD, Jyoti CNC Automation Ltd, informed, “This exclusive B2B event attracts Indian and foreign exhibitors offering a range of technologically innovative products and solutions for the metal cutting industry that caters to the entire spectrum of the manufacturing industry.”

For the first time, a Reverse Buyer Seller Meet is jointly being organised by IMTMA and EEPC India at the event to provide an opportunity to connect with importers of machine tools globally.

With the group participation of seven countries, several conferences, programs, innovations being spread across six halls as well as the premier event—Tooltech 2017 running concurrently, IMTEX 2017 will be breaking new ground.

(बीआयईसी) में जनवरी 26, 2017 से फरवरी 1, 2017 तक चलेगी।

वैश्विक सहभागिता

इन्डियन मशीन टूल मैन्युफैक्चरर्स एसोसिएशन (आयएमटीएमए) द्वारा आयोजित यह 18वीं प्रदर्शनी है, जिसमें 22 देशों के लगभग 1000 प्रदर्शक सम्मिलित होंगे। आयएमटीएमए के महानिदेशक एवं मुख्य कार्यकारी अधिकारी वी अनबु ने इस वर्ष की प्रदर्शनी के बारे में कहा, “हमें एक लाख से ज्यादा परिदर्शक के साथ ही सार्वजनिक तथा निजी क्षेत्र की कंपनियों के 100 से ज्यादा प्रतिनिधिमंडल की अपेक्षा है। हमेशा की तरह इस बार भी हम अपने आप के लिए अपने स्तर तथा मानक के उत्थान की अपेक्षा कर रहे हैं तथा मुझे विश्वास है कि हमने अपने लिए बनाए उच्च मानक को हम प्राप्त करेंगे।”

विकास के लिए मंच

देश के विकास में प्रदर्शनी की भूमिका के बारे में बताते हुए आयएमटीएमए के अध्यक्ष तथा ज्योती सीएनएस ऑटोमेशन लि के अध्यक्ष एवं प्रबंधनिदेशक पी जी जडेजा ने कहा, “हमारा विशेष व्यापार से व्यापार मंच उत्पादन क्षेत्र के सभी धातु कटाई उद्योग की तमाम ज़रूरतों को पूरा करनेवाली, तकनीकी रूप से अभिनव उत्पादों एवं उपाय पेश करनेवाले भारतीय तथा विदेशी प्रदर्शकों को आकर्षित करेगा।”

दुनियाभर से मशीनी औज़ार आयात करनेवालों से मिलने के लिए आयएमटीएमए एवं इंडोपीसी इंडिया द्वारा संयुक्त रूप से आयोजित अधोमुख क्रेता विक्रेता मिलाप एक अवसर है। यह पहलीवार होने जा रहा है।

इमटेक्स 2017 के साथसाथ टूलटेक 2017 का आयोजन किया जा रहा है, जिसमें सात देशों का सामूहिक सहभाग, कई सम्मेलन, कार्यक्रम, नवोत्थान एक मुख्य कार्यक्रम है, जो 6 सभागृहों में होगा और इस कार्यक्रम से व्यापक प्रभाव होगा।

in India, Bangalore International Exhibition Center (BIEC) is holding.

ग्लोबल पार्टिसिपेशन

By Indian Machine Tool Manufacturers Association (IMTMA) organized the 18th exhibition will have from all over the world 22 countries 1000 exhibitors. IMTMA Managing Director and CEO V. ANBU at this exhibition mentioned: “We expect to have over 100,000 visitors, including from official and private enterprises, a total of 100 small trade fair groups participating. As always, we believe in continuously improving standards, and for ourselves setting higher standards, at the same time we also have confidence, will be able to achieve the higher standards successfully.”

Platform for growth

Speaking on the role the exhibition plays in the growth of the country, PG Jadeja, President, IMTMA, and CMD, Jyoti CNC Automation Ltd, informed, “This exclusive B2B event attracts Indian and foreign exhibitors offering a range of technologically innovative products and solutions for the metal cutting industry that caters to the entire spectrum of the manufacturing industry.”

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selbstbewusst dass wir die hohe Ziele erreichen werden”

Wachstumspotential

Wenn gefragt welche Rolle die Ausstellung in dem Wachstum des Lands spielt, meinten Herr PG Jadeja Präsident, IMTMA, und Geschäftsführer, Jyoti CNC Automation Ltd “Diese einzigartig B2B Veranstaltung zieht indische sowie ausländische Aussteller zusammen. Diese Aussteller bieten eine Reihe von technologischen Innovative Produkte und Lösungen für die Metallbearbeitungsindustrie und bieten auch Lösungen für die gesamte Fertigungsindustrie”

Zum ersten Mal wird ein umgekehrte “Buyer Seller Meet” gemeinsam mit IMTMA und EEPC Indien organisiert. Diese Veranstaltung bietet die Möglichkeit Einfuhrhändler aus überall in der Welt zusammenzubringen. Mit der Teilnahme von sieben Ländergruppen, mehrere Konferenzen, Programme, Innovationen welche über sechs Hallen verteilt ist, und und die Prämie Veranstaltung - Tooltech 2017; wird IMTEX 2017 eine bahnbrechende Ausstellung sein.

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Parakramsinh G Jadeja



Jamshed Godrej



V Anbu

“IMTEX is the flagship event for IMTMA and we are happy to organize the biggest exhibition for the manufacturing industry this year starting on Republic Day. I extend my warm wishes to all the exhibitors and visitors of this show.”

Parakramsinh G Jadeja
President, IMTMA

“I extend my Republic Day greetings to all exhibitors and visitors at IMTEX 2017 and Tooltech 2017. I wish you all the very best during the exhibition. I am happy that our flagship exhibition is being inaugurated on this day.”

Jamshed Godrej
Chairman - Exhibitions, IMTMA

“On behalf of IMTMA, wishing you all a very happy Republic Day and I wish all exhibitors and visitors to IMTEX 2017 the very best and trust that you will have great takeaways from the show.”

V Anbu
Director General & CEO, IMTMA

“इमटेक्स आयएमटीएमए का प्रमुख कार्यक्रम है और हमें इस बात की खुशी है कि उत्पादसंबंधी क्षेत्र की सबसे बड़ी प्रदर्शनी का उद्घाटन इस वर्ष गणतंत्र दिवस पर हो रहा है। इस प्रदर्शनी के सभी प्रदर्शक तथा परिदर्शकों को मेरा भावपूर्ण अभिवादन।”

अध्यक्ष, आयएमटीएमए, पराक्रमसिंह जी जडेजा

“इमटेक्स 2017 एवं टूलटेक 2017 के प्रदर्शक तथा परिदर्शकों को मेरी ओर से गणतंत्र दिवस पर हार्दिक अभिवादन। प्रदर्शनी के दौरान आप सभी को मेरी शुभकामना। मुझे खुशी है कि हमारे प्रमुख प्रदर्शनी का उद्घाटन इस शुभ दिवस पर हो रहा है।”

प्रदर्शनी अध्यक्ष, आयएमटीएमए, जमशेद गोदरेज

“इमटेक्स 2017 के सभी प्रदर्शक तथा परिदर्शकों को आयएमटीएमए की ओर से गणतंत्र दिवस की हार्दिक बधाई और आप सब यहाँ से बहुत कुछ लेकर जाएंगे ऐसी उम्मीद रखते हुए आपको शुभकामनाएँ।”

आयएमटीएमए के महानिदेशक एवं मुख्य कार्यकारी अधिकारी वी अण्बु

“IMTEX是IMTMA的所有展覽活動中的頂級旗艦型活動，我們很高興今年開展日適逢印度國慶日，以辦喜事的心情，來組織這個全年最大的製造業展覽會。我並向本次展覽會的所有參展商和參與者致以衷心的祝願。”

IMTMA主席 · PARAKRAMSINH G JADEJA先生

我在2017年IMTEX和2017年工具技術展覽會上向所有參展商和參觀者，致以印度國慶日的節日精神和最莊嚴隆重的問候。祝諸位在展會期間一切順利。我也同時以最熱烈的心情，歡欣祝賀我們的旗艦展覽館在同一天揭牌成立。

IMTMA展覽會主席 · JAMSHED GODREJ先生

“謹代表IMTMA，預祝諸位擁有一個愉快的印度國慶日，並以我最誠懇與誠摯的表示來祝福所有參展廠商和參觀者您們在IMTEX 2017展會上，都能收得到最非凡的收穫。”

IMTMA總經理兼首席執行官，V ANBU先生

“IMTEX ist ein Flagship Veranstaltung der IMTMA. Wir freuen uns dass wir dieses Jahr, die größte Ausstellung der Fertigungsindustrie, am Tag der Republik eröffnen dürfen. Ich richte meine herzlichste Grüßen zu den Ausstellern und Besuchern diese Ausstellung aus.”

Parakramsinh G Jadeja
President, IMTMA

“Ich übermittle meine Grüße zum Tag der Republik zu alle Ausstellern und Besuchern der IMTEX 2017 und Tooltech 2017. Ich wünsche euch allen alles Gute für die Messe. Ich freue mich das unserer Flagship-Messe heute eröffnet wird.”

Jamshed Godrej
Chairman - Exhibitions, IMTMA

“In der Vertretung der IMTMA, wünsche ich allen einen fröhlichen Tag der Republik und wünsche alle Aussteller und Besucher der Messe IMTEX 2017 alles Gute und glaube dass Sie vieles von der Messe mitnehmen..”

V Anbu
General Direktor und CEO, IMTMA

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The background image shows a close-up of a CNC machine tool cutting a metal part. Metal shavings are flying off the workpiece. Overlaid on the image are various digital elements: a grid of binary code (0s and 1s) in the upper right, a semi-transparent blue rectangular box in the lower right containing text, and a semi-transparent orange rectangular box in the bottom left containing text. The Siemens logo is in the top left corner.

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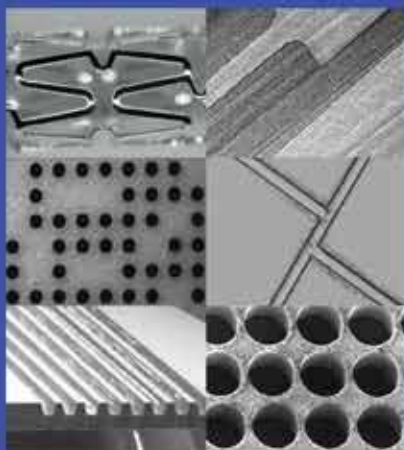
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MQL—A Path Breaking Technology

Many machinists do not know or truly understand the true concepts behind Minimum Quantity Lubrication (MQL), and therefore never get to enjoy its benefits. Here's how understanding true concepts behind lubrications can make a huge difference to your business!

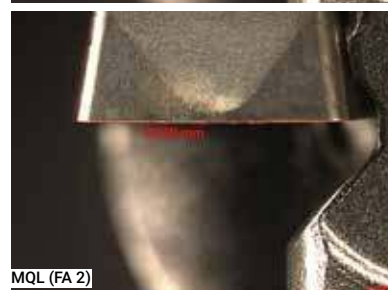
Minimum Quantity Lubrication (MQL) goes by many names and sometimes incorrectly, referred to as 'mist coolant'. In an industry where production efficiency is crucial, the unknowns of a 'new' technology pose the potential threat of complications and downtime. The fear of the unknown may be the greatest challenge to MQL. The excellent lubricity of a good MQL lubricant means that most the heat from friction is transmitted to the chip and exits the interface as chips are thrown away. This lubrication and transfer of heat keeps the cutting tool much cooler, reduces tool wear and allows a much higher productivity. "MQL is Business Process Management. Implementing an MQL process



“Blaser Swisslube is always concerned with generating the highest productivity, efficiency and quality out of machining processes of our customers in close cooperation with our industrial partners.”

Jos Christoffel, Product Manager, MQL Blaser Swisslube AG

Source: Blaser Swisslube India Pvt Ltd



Cutting process with dry coolant vs. MQL

is like completing an engineering project and one needs to have competent partners who can support throughout this journey and contribute in the complete ecosystem,” says Product Manager MQL, Blaser Swisslube AG, Jos Christoffel.

Customer case study

In a close collaboration between Fraisa and Blaser Swisslube, a cutting process in stainless steel (1.4301) was optimised with MQL in the medical industry. Prior, the cutting process was done dry without any coolant technology. The goal of the project was to find a suitable process with MQL that results in a substantial benefit.

To achieve this goal, different tools from Fraisa and MQL solutions from Blaser Swisslube were evaluated and compared under real conditions at its technology centre.

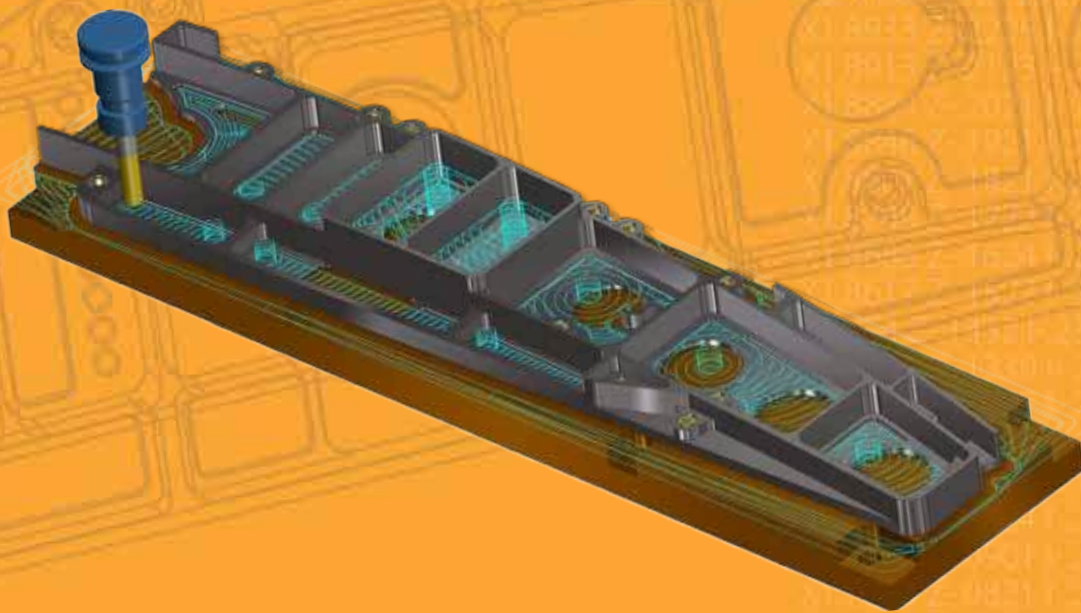
With the ideal combination of MQL oil and tool, an increased productivity and a better tool life were enabled. “Overall, the metal removal rate was increased by 70 percent and this resulted in a higher tool life by 243 percent” informs Christoffel. This convincing result was achieved with an internal aerosol transport through the tool with a one channel MQL device.”



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



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Widia
www.widia.com
Hall 1, Booth B109

Source: Widia

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Universal Machining Centres

Making Headways IN EXPANSION

GROB-WERKE, for the first time, is participating in IMTEX 2017. The company that has operated in India for over a decade will showcase its state-of-the-art G350—Generation 2 5-axis universal machining centre at the event.

GROB-WERKE began its journey in India in 2006. It has since sold over 200 machines to sectors such as automotive, aerospace and mouldmaking. The company attributes its success to the fact that they treat each customer as a partner. LJ Naidu, Managing Director, GROB Machine Tools India Pvt Ltd avers, "GROB always considers the customer as a partner, this has helped us retain all our customers and to get repeated business from them."

Using the IMTEX platform

The company's participation at the trade fair goes hand-in-hand with the nationwide expansion and presence of the GROB sales network in India.

It will be exhibiting the latest design of its 5-axis universal machining centre, the G350—Generation 2, at its booth. The machine measures almost 100 m² and has been redesigned to give the machine a contemporary look; it boasts of improved dynamics, reduced down time and chip-to-chip times, as well as enlarged tool magazine capacity.

"Owing to a repositioning of the tool magazine, we were able to reduce the machine width from 2,450 mm to 2,000 mm. Furthermore, the tool capacity now includes 60 pockets, and can

easily be increased to 117 pockets with the double disk magazine. Thanks to this newly developed double disk magazine, tool length could also be expanded by 50% from 365 mm to 550 mm," details Naidu.



LJ Naidu
MD, GROB Machine Tools
India Pvt Ltd

Future forward

In line with the 'Make in India' initiative, the company plans to construct a manufacturing plant in India, making it their 5th one in the World.



Source: GROB Machine Tools India Pvt Ltd

GROB-WERKE GmbH & Co. KG
www.grobgroup.com
Hall 3A, Booth B108



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Source: Taegutec India Pvt Ltd

Taegutec India Pvt Ltd
www.taegutec-india.com
Hall 3A, Booth A120

helical geometries on the insert, and positive rake angle pocket on the cutter body, the tool reduces cutting forces and can machine at high feed rates on both low and high power spindle machines. Available in two sizes—the ONMU 05 is for low depth of cut, low spindle power machines, and the ONMU 07 is for moderate to high depth of cut and high spindle power machines, supported by two chip geometries namely ML & M for better machining.

Inserts are available in grades DC9800, DC9200, DP5035 suitable for machining all types of materials like steel, SS and Cast Iron. Cutters available in Diameters from 63 to 160, and end mill in diameters of 25 and 32.

Marking

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A new solution can put permanent marks on components to facilitate easy recognition

Sahajanand Laser Technology Ltd (SLTL) is displaying its laser marking/engraving system at IMTEX 2017. When retention of appropriate marking on parts is an ever-existing challenge for any manufacturing company, the new ultrafine marking machine for metal as well as non-metal marking is a boon to manufacturers.

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Source: Sahajanand Laser Technology Ltd (SLTL)

Sahajanand Laser Technology Ltd (SLTL)
www.SLTL.com
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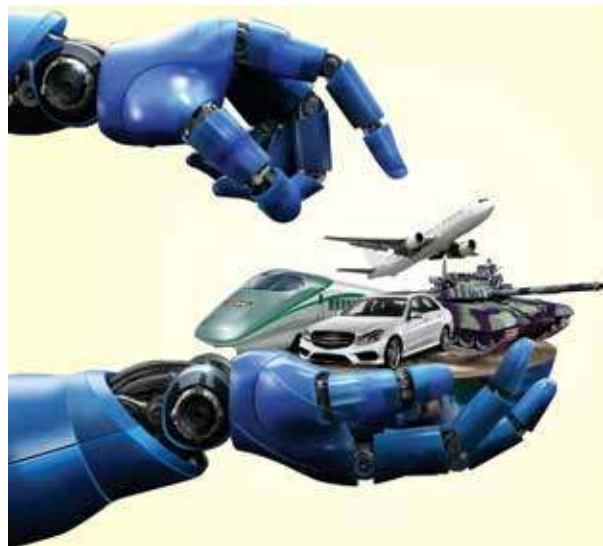
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i2

Academia Pavilion

Connecting Institutions and Industry

i2 Academia pavilion @ HALL - 4

Education & Training

Academia sets New Expectations through **INNOVATION**

A sneak-peek into the three-day i2 Academia Pavilion that will take place at Hall 4 on January 28, 29 and 30 to showcase and promote the work from academic and R&D Institutions from across the country...

For three days during IMTEX 2017, Indian Academic and R&D Institutions will showcase their R&D capabilities through display of four posters and product demonstration from each institution. The i2 Academia Pavilion will feature displays from 40 institutions, and presentations on academic research projects from 13 institutions.

The displays, presentations and interactions are envisioned as a way to promote dialogue between industry and academia. This in turn should help widen the future prospects for students and researchers, as well as present the industry with a peek

into new research and technology.

The research projects will be presented by Professors and experts from Chennai Institute of Technology, IIT Mumbai (Mechanical Department), KLS Gogte Institute of Technology, New Horizon College of Engineering, Dhayanand Sagar, PDPM Indian Institute of Information Technology, PSG College of Technology, IIT Indore, Maharashtra Institute of Technology, Sai Vidya Institute of Technology, Sambhram Institute of Technology, Sree Sastha Institute of Engineering & Technology and SSN College of Engineering.

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

| | | | |
|----------------|-------------|-----------|---------|
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| BELGIUM | ITALY | RUSSIA | USA |
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| 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)

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Several experts from the Manufacturing Sector assembled during the inauguration of IMTEX 2017.

Global Manufacturing Trends

GALVANISING the Industry Towards Competitiveness

The metal working industry needs to brace itself for solving new challenges and incorporate new technologies. In line with this thought, Indian Machine Tool Manufacturers' Association (IMTMA) organised the 'International Seminar on Machining Technologies' on January 25, 2017.

The theme of this international seminar was 'Powering Manufacturing Growth and Competitiveness'. The seminar began with the inaugural address by Guest of Honour, KG Mohan Kumar, Joint Managing Director, Toyota Kirloskar Auto Parts Pvt Ltd. Addressing the audience, Kumar stated, "IMTEX is an opportunity for us to calibrate ourselves for the changes coming in the automotive industry. It also demonstrates how to do that." He further went on to discuss the current challenges the industry faces as well as speak on

the 'Evolution of the Automobile and its new demands on Manufacturing'. Following the informative address, the keynote address was given by Ben Kitcher, Automotive Sector Lead, Advanced Manufacturing Research Centre, The University of Sheffield. He spoke on the topic of the 'Factory of the Future'. Speaking on the benefits of a show like IMTEX, he added, "Industry 4.0 is an opportunity for every factory to improve their manufacturing processes to be globally competitive, IMTEX is providing a sound platform to that."

Bountiful learning

Organised every alternate year, the event has acted as a platform to explore new strategies, discuss trends and expose participants to a new range of value added machining solutions in metal cutting. The seminar focussed on Machine Tools & Machining, Emerging Technologies, Tooling & Cutting Fluids, Control Systems & Metrology and Surface Finishing and brought together the fraternity of machining technologies on a common platform to discuss related issues. Experts from renowned National and International companies and research institutes from Germany, Japan, Switzerland, UK, USA as well as from India shared their expertise and latest developments in the field of Machining Technology.

All in a day's work

Eighteen parallel concurrent sessions were held throughout the day with the aim of covering key technology areas and their application related to metal cutting.

The seminar was attended by 400 delegates from a 150 companies representing a wide cross section of the metal working industry viz., automobile & auto components, consumer durables, machine tool, tool rooms, aerospace, defence & railways units, PSUs, pumps & valves, general engineering and other manufacturing industries.

Decision makers including CEOs, senior executives, practicing engineers, industry experts, R&D specialists and academia were immensely benefited from this international seminar.



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i2 Academia pavilion
@ HALL - 4

| Date | Session 1 CEO Connect (1600 - 1630 hrs.) | Session 2 Industry Connect (1645 - 1715 hrs.) |
|-------------|--|---|
| 27 Jan 2017 | BFW Mr. RAMESH BABU | CADEM Mr. DASARATHY |
| 28 Jan 2017 | KENAMETAL Mr. BC RAO | FANUC Mr. BALAKRISHNAN |
| 29 Jan 2017 | AGE Mr. SG SHROUFGAR | TaeguTec Mr. L. KRISHNAN |
| 30 Jan 2017 | JYOTI Mr. PG JADEJA | UCF Mr. INDRADDEV BABU |
| 31 Jan 2017 | AceMicromatic Mr. TK RAMESH | MAKINO Mr. RAGHAV BADIYIA TV |

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Indian Machine Tool Manufacturers' Association
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Global Outlook

SPANISH companies thrive in the Indian market

Spanish companies with advanced manufacturing technologies see India as an important export destination and want to foster collaborative partnerships. Banking on this association, Mikel Artola, International Director, Advanced Manufacturing Technologies, AFM is optimistic that the recent economic reforms will help the market gain back the sheen it had lost over the past few years.

🇬🇧 AFM, Advanced Manufacturing Technologies, the Spanish association of manufacturers of machine tools, accessories, parts and tools, represents 90 percent of machine tool and advanced manufacturing technology companies in Spain. Sharing his enthusiasm on attending IMTEX 2017 with 11 member companies, Mikel Artola, International Manager, AFM says, "Though there has been a recent decline in demand, in 2015, the Spanish machine tool exports to India was raised to €20.4 million, becoming its 12th most important market."

lies in catering and adapting to specific needs of the customer. Taking pride in his country's capacity to customise solutions for each sector, Artola elaborates, "We are especially renowned for large-scale, high-performance and top-precision machinery, being world leaders in some turning, milling and grinding applications, which fit well with some of the most iconic user sectors in India."

Spain has many outstanding examples of successful collaborations with the power generation, railways, aeronautics and automotive sectors. Machine tool and advanced manufacturing technologies feed the interaction with other industrial sectors.

Win-win situation

Banking on Spain's learnings to benefit India, Artola avers, "Spain's propensity to produce highly advanced solutions developed through intense & incessant research, the vast network of companies that is successfully present in several countries, thus enhancing necessary collaborations, and the importance of having trained and qualified people in a company to battle any challenge are the three pillars of Spain's competitiveness." He concludes, "The machine tool industry based on a cluster structure has a large concentration of agents in a small geographic space, which reinforces the competitiveness of the companies and the interests of cooperation."



“We are convinced that our companies will be part of the growth India is currently witnessing.”

Mikel Artola
International Director
Advanced Manufacturing Technologies

22

Spain's tailor-made solutions

Spain is a country whose strength

Global Outlook

MAQUINARIA de grandes dimensiones

India ha sido un mercado muy importante para las empresas españolas de tecnologías avanzadas de fabricación, gracias a una propuesta de producto y de tecnología que ha auspiciado no sólo la colaboración entre empresas indias y españolas. El director de la Asociación Española de Fabricantes de Máquinas-herramienta, Accesorios, Componentes y Herramientas (AFM) Mikel Artola confía que el mercado recupere la solidez perdida en los últimos años y en que las reformas económicas den sus frutos.

🇪🇸 AFM, Advanced Manufacturing Technologies, the Spanish association of manufacturers of machine tools, accessories, parts and tools, represents 90% of machine tool and advanced manufacturing technology companies in Spain. En 2015 España exportó a India máquina herramienta por valor de 20,4 millones de euros, convirtiéndose en su 12º mercado más importante. Se trata sin duda de una cifra modesta en comparación con otras registradas recientemente (45,7 millones en 2012, 39,9 millones en 2011), reflejo del descenso de la demanda que ha registrado la economía. "La presencia y la confianza de las empresas de AFM no ha remitido y estamos convencidos de que nuestras empresas serán partícipes de la mejora, tal y como

nos adelantan las cifras de captación de pedidos que manejamos," dice Mikel Artola. En esta edición de la feria la asociación contará con 11 empresas asociadas expositoras.

Gran capacidad de adaptación

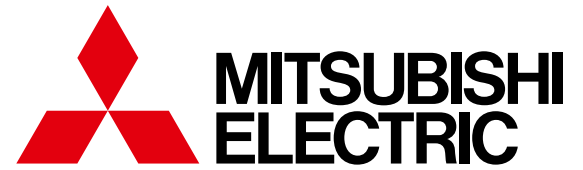
Al respeto de nuevas y futuras tecnologías la mayor fortaleza de las empresas según Artola debe radicar en su capacidad de adaptación a las necesidades concretas del cliente, personalizando para cada sector. Una de las nuevas tecnologías más en boga es la fabricación aditiva, está registrando un significativo avance en España y desde la asociación AFM alentaron su desarrollo creando una asociación específica, ADDIMAT, que ya trabaja con 59 empresas asociadas. Sin embargo Artola declara que las empresas de

la asociación son especialmente reconocidas en maquinaria de grandes dimensiones, alto rendimiento y precisión, que encajan

apropiadamente con algunos de los sectores usuarios más emblemáticos de la India.



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Precision Machining

"Reduce Imports to Improve Service"

CNC turning and milling machine supplier Jyoti CNC Automation Ltd is now set to make an array in defence. Senior VP Hemant Kumar shares an industry perspective.

The defence industry is on an almost vertical growth path owing to the demand exceeding production of sophisticated equipment. To reduce the import volume of sophisticated equipment, Kumar feels that indigenous sources should be promoted. This would not only lead to substantial cost reduction, but also speed up deliveries, and allow timely service and application support by cutting down the red tape involved in imports.

Towards multi-tasking

"Almost 40 defence units are involved in the manufacturing of defence equipment for the army," says Kumar. "To increase production, old machinery needs to be replaced with more productive high-end machines." He recommends that the new machines

should be capable of multi-tasking, combining three or more machining operations in one machine.

Rising to the demand

"We are keenly watching the upcoming needs and have planned to produce machines that are as import substitutes for use in the defence sector," avers Kumar. On a concluding note, Kumar advises that it will be good to see the several multitasking machines and large size 5-axis machines have been developed so far and are the key exhibits at IMTEX 2017.



"We are keenly watching the defence sector and have planned to produce machines that can substitute imports."

Hemant Kumar
Senior Vice President,
Jyoti CNC Automation Ltd

Source: Jyoti CNC Automation Ltd

Jyoti CNC Automation Ltd
www.jyoti.co.in
Hall 4, Booth A106

CAD/CAM

Addressing Mission CRITICAL ISSUES

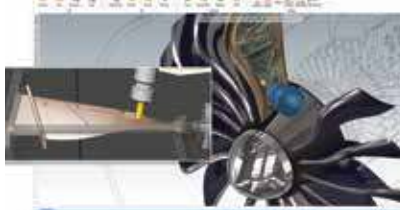
A revised software solution now helps move models onto machines sooner, sending parts out of the door faster, and maintain a competitive edge.

Mastercam will be showcasing demonstrations of its software at IMTEX 2017. The solution incorporates a robust CAD package that includes special tools focused on preparing CAD models for efficient CNC programming and for designing tools and fixtures used during subsequent manufacturing processes. Mastercam 2017 features significant improvements that make it faster and easier to create CNC programs for complex parts, enhancements that improve material removal safety and productivity, and extended support for a broader range of CNC manufacturing equipment, cutting tools and other

related technologies.

Mastercam also supports reduction of setups for multi-turning. Its dynamic motion toolpaths improve machining cycles and reduce tool wear.

Mastercam (CNC Software) Inc
www.mastercam.com
Hall 1B, Stall B101



Source: Mastercam (CNC Software) Inc

Machining Centre

Make-in-India with Taiwan

An India-Taiwan co-manufacturing venture aligned with the 'Make in India' concept

STM – a co-manufacturing venture of S&T Group, India, and Manford Ltd, Taiwan, is launching its DL series double column vertical machining centre with live demo at IMTEX 2017. Engineered especially for the production of heavy moulds and dies for various industries such as aerospace, automobile, oil refinery, power generation, etc., this machine can also be used to machine large parts.

Evenly sprayed machine heat minimises the thermo deformation phenomenon and much of cutting

vibration is absorbed because of the Meehenite casting. The machine features high torque output during low speed range, the gearbox powered by servo motor. Milling heads are capable of machining the work pieces of multi-faces or deep cavity in one setup. Milling heads options include manual, semi-automatic and fully automatic for 5-face machining.



Source: S&T Group, India & Manford Ltd, Taiwan

S&T Group, India & Manford Ltd, Taiwan
www.stengineers.com
Hall 2A, Booth A104

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The Cantilever Table, dia 600 mm, is ideal for moving column machines, where the cantilever table is mounted onto the machine frame. With a tilting range of $\pm 110^\circ$ and 360° in the rotary axis, it gives the versatility to machine multi setup component machining in a single set up. The direct mounting encoder provides superior positioning

accuracy of $\pm 5''$ and $\pm 7.5''$ in the rotary and tilting axis, respectively.

The Spindle Tilting Head, another solution, is provided with a spindle housing. The spindle can be easily be mounted onto the spindle housing and all cable routing and coolant routing is done within the Spindle Tilting Head. With its tilting range of $\pm 100^\circ$ and 360° in rotary axis, the spindle can reach all sides of a component.



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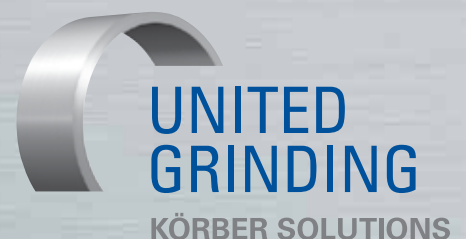
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Education & Training

Spotlight on NORTH-EAST YOUTH

The 10th "JAGRUTI – IMTMA YOUTH PROGRAMME" has special focus on engineering students from the North-East.

The Tenth edition of "JAGRUTI- IMTMA Youth Programme" is scheduled from January 28 to 30, as part of IMTEX 2017 and Tooltech 2017. With a registration of 31 engineering students, this edition is dedicated to engineering students from North-East India, in keeping with the desire of the Hon'ble Prime Minister.

Students from Guwahati, Aizwal, South Sikkim, Agartala, Shillong, and other cities will be shown around the various halls and exhibits over the course of the three days. On the third day they will visit the shop floor at ACE Designers Ltd, followed by a debriefing with P J Mohanram, Senior Advisor - IMTMA and M Krishnamoorthy, Senior Director – IMTMA.

High-end Grinding

STRONG BONDS Bring Success!

Industrial partnerships bring about more than just knowledge sharing!

Micromatic Grinding Technologies (MGT) has been a partners with JTKET Corporation, Japan, (JTKET) for about a decade. The companies began a joint venture for the manufacture of the CNC Cam lobe Grinder GC20M-25S to cater to the two-wheeler sector. Managing Director, Toyoda Micromatic Machinery India Pvt Ltd, Mamoru Nagasawa, "The journey has been wonderful and successful; the company has manufactured and supplied Cam Grinders not only to industries in India but also to the markets in Thailand and Indonesia, keeping values and technical expertise of both JTKET and MGT."

Continuing its journey, a new product—GL4E Wheel Cylindrical Grinder— has been manufactured and will be launched at IMTEX

Source: Toyoda Micromatic Machinery India Pvt Ltd



2017, at the Toyoda Micromatic Machinery India Pvt Ltd Booth. This innovation came about with expertise from JTKET's technical experts, TMI's Japanese and local team members with hands-on coordination of the MGT team, and further strengthened the company's bond along with their goal of 'Making in India' to fulfil a need gap in the industry.



“Our decade long journey has been wonderful and successful so far.”

**Mamoru Nagasawa, Managing Director,
Toyoda Micromatic Machinery India
Pvt Ltd**



2nd Symposium on SMART MANUFACTURING

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For more details, contact :
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