

Focusing on Future Growth

Mapping the Road Ahead

A stimulating dialogue between various stakeholders of the Indian metal forming and tools manufacturing industry set the tone for IMTEX FORMING 2018 & Tooltech 2018 as the six-day exhibition officially opened its gates to visitors on January 25, 2018. Highlights from the Inauguration Ceremony...



From L-R: Indradev Babu, Vice President, IMTMA & Managing Director, UCAM Pvt Ltd; Nirmal K Minda, President, ACMA & Chairman & Managing Director, Minda Industries Ltd; P Ramadas, President, IMTMA & Managing Director, AMS Ltd & Shri RV Deshpande, Hon'ble Minister for Large & Medium Scale Industries and Infrastructure Development, Government of Karnataka; Jamshyd N Godrej, Chairman - Exhibitions, IMTMA & Chairman, Board of Godrej & Boyce Mfg Ltd, AS Kiran Kumar, Vikram Sarabhai Distinguished Professor & Former Chairman, ISRO and V Anbu, Director General & CEO, IMTMA during the opening ceremony.

Indian Machine Tool Manufacturers' (IMTMA) flagship event and South East Asia's largest exhibition on metal forming technologies 'IMTEX FORMING 2018 & Tooltech 2018' was inaugurated yesterday by Shri RV Deshpande, Hon'ble Minister for Large & Medium Scale Industries and Infrastructure Development, Government of Karnataka. Other dignitaries included were Indradev Babu, Vice President, IMTMA & Managing Director, UCAM Pvt Ltd; Nirmal K Minda, President, ACMA & Chairman & Managing Director, Minda Industries

Ltd; P Ramadas, Managing Director, AMS Ltd & President, IMTMA; Jamshyd N Godrej, Chairman, Board of Godrej & Boyce Mfg Ltd & Chairman - Exhibitions, IMTMA; AS Kiran Kumar, Vikram Sarabhai Distinguished Professor & Former Chairman, ISRO and V Anbu, Director General & CEO, IMTMA also presided over the inauguration.

Exhibitions crucial to industry's growth

Addressing the gathering of manufacturers, end-users, and experts in

the Indian metal forming industry, Godrej stressed on the importance of IMTEX and other exhibitions, "Exhibitions have a huge role to play in industrial growth." It is through such trade fairs that the industrial strength of a nation is gauged, and the windows of opportunity opened for further progress.

We have seen it in Europe and around the world. The more we do in terms of being able to support industrial exhibitions, the more we will benefit the economy, the state of Karnataka, and also India," he added.

Industry going strong

Providing statistics, Ramadas highlighted the success of the machine tool industry, "Indian machine tool industry registered an impressive growth rate of 23 per cent during 2016-17. Indian machine tool industry is expected to grow by around 20 percent during 2017-18 and Indian metal forming industry is expected to grow at a CAGR of around 15 percent in the next 3 years."

Making a case for investing in the state of Karnataka, Shri Deshpande said, "Karnataka has always been ahead

Continued on page 2 ▶



omnitrack

Ball Transfer Units

Hall 3A - Stall D110

**APEX
PRECISION**

AMCATS PVT. LTD.
TEL: 022 - 6146 4444 / 45

APEX PRECISION MECHATRONIX PVT. LTD.
EMAIL: sales@apexprecision.co.in



Continued from page 1. ▶

of the curve; it is a progressive state, the first in the country to initiate an IT policy, an infrastructure policy that anticipated growth, leaders in Aviation, unique start-up policy, and more. Karnataka remains committed to supporting growth with infrastructure, like quality roads and Namma Metro which will soon extend up to BIEC." He emphasized the industry's responsibility to create local jobs and allow MSMEs to thrive.

The state has been in the forefront of supporting the manufacturing sector and it has successfully created 12,61,000 jobs and over 5,00,000 jobs are in pipeline.

Supplying the automotive industry perspective, Minda said, "I'm delighted that we are carrying on the tradition of ACMA being an integral part of all major events of IMTMA." Lauding the contribution of the machine tool industry to the growth and develop-

ment of engineering industry of the nation, he added, "The automotive and auto ancillary industries are the primary drivers of Indian machine tool industry. I am confident we will continue to work closely together to realize our common vision and goal of a world-class, world-scale and world sized engineering industry in the country."

True to his academic roots, Kiran Kumar reminded the gathering of the vital role of innovation, "As metal forming and tool technology keeps improving, it is for the industry captains to make sure that they spend some more money in R&D and really go ahead of the global market."

Special moments

In between thought-provoking sessions, the dignitaries came together to release some special publications for the industry: Launch of IMTEX FOR-

MING 2018 & Tooltech 2018 Catalogue Comprehensive Report on Indian Metal Forming Industry Machine Tool Market Research Report on Mexico The publications are available online to IMTMA members, and visitors can purchase copies from IMTMA.

The organization also took the opportunity to honour Indradev Babu, Managing Director, UCAM Ltd & Vice President IMTMA with the Premiere Outstanding Entrepreneur Award in memory of Vinod Doshi.

IMTEX soon to turn 50

IMTEX has come a long way from its humble beginnings in Mumbai, and the 2019 edition of IMTEX CUTTING will also mark the 50th Anniversary of its first ever exhibition. The exhibition has grown by leaps and bounds after having shifted base to Bangalore. Ramadas stated, "Karnataka is the machine tool capital of India, and the

government has come up with many policy initiatives to support the industry. Karnataka government and the department of heavy industry has proposed a Machine Tool Park near Tumkur. IMTMA will remain committed to support the industry and its efforts for the positive impact and response from the government."

Support promised

The session also included a pre-recorded video message from Shri Suresh Prabhu, Hon'ble Minister of Commerce & Industry, Government of India. In the message, he extended his support to the event as well as the industry: "Machine Tool industry will be promoted by my Ministry, and I assure you full logistics support." Expressing his keen interest in the show, he said, "We will work with you as partners to ensure that we develop the industry and take it to a new level."

Awards & Recognition

Passion, Vision and Commitment Personified

A brief portrait of Indradev Babu, Founder & Managing Director, UCAM and Vice President, IMTMA who was honoured with the IMTMA Premiere Outstanding Entrepreneur Award in memory of Vinod Doshi at IMTEX FORMING 2018.

An Engineer from BIET College, Davangere, Karnataka, Indradev Babu began his career in Bharat Electronics Ltd (BEL) where he spent eight years working in various capacities before founding Uday Computer Aided Manufacturing (UCAM) in 1986 as an ancillary job shop for BEL. He soon diversified into product manufacturing and manufactured the first rotary table in the country in 1994. The company which started as an engineering job shop has now risen to one of India's leading manufacturing and export companies.

Yesterday, at the inaugural ceremony of IMTEX FORMING 2018, when the Chief Guest, Shri RV Deshpande, Hon'ble Minister of Medium to Large Industries, Government of Karnataka, announced the recipient of the IMTMA Premiere Outstanding Entrepreneur Award in memory of Vinod Doshi, Babu was visibly flustered and understandably overwhelmed. Yet, with his trademark composure, he received the honour and acknowledged the various people who have contributed to his success.

This included his parents, Gurus, and, especially, his wife and children who steadfastly have remained his companions through his highs and lows. He thanked his IMTMA mentors -- Shailesh Sheth, R Srinivasan and the late HR Gupta; his co-director, R Ashok ; team member, Rajesh Gawhle as well as his employees.



Indradev Babu, Founder & Managing Director, UCAM and Vice President, IMTMA, receiving the IMTMA Premiere Outstanding Entrepreneur Award from Shri RV Deshpande, Hon'ble Minister of Medium to Large Industries, Government of Karnataka, at the inaugural ceremony of IMTEX FORMING 2018.

Speaking on the current scenario of the Indian Machine Tool industry, Babu said that the greatest challenge at present is to meet the ever-increasing demand and striking the right balance of cost and quality with an eye on developing the local industry. "A big chunk of the machines being imported at present are in the metal forming industry," he noted, adding that associations like IMTMA are working to develop manufacturing in the country.

He cited IMTEX FORMING, which now has its own identity, distinct from the larger metal cutting expo. Referring to the power-packed seminar on metal forming conducted by IMTMA, a day before IMTEX FORMING SHOW 2018, he said, "The seminar is also a way that the association can foster knowledge wherein more information can be shared, so that more industries and companies would contribute and develop."

Other than his impressive career graph, there are things that he does for his personal fulfilment. One among that that deserves a mention is his passion for aero modelling which he has been pursuing since his college days.

An innovator, promoter, educator, visionary and a thorough family man – that's the IMTMA Outstanding Entrepreneur for you.

POWER+ with 8000 watts of power and speed

■ FIBER LASER

8.0 kW fiber laser for greater throughput in mid to thick material.

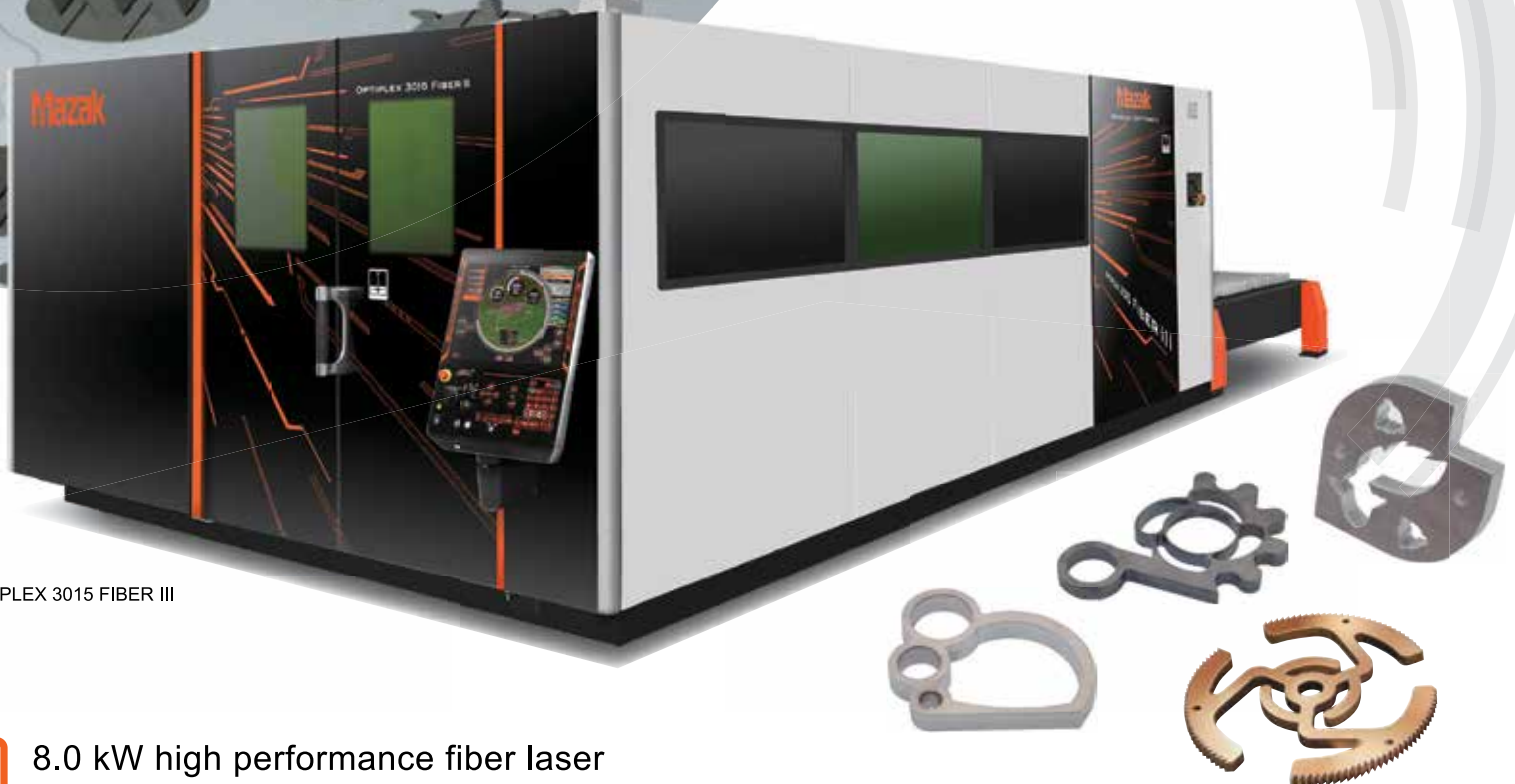
■ MAZATROL CNC SYSTEM

Equipped with MAZATROL PreviewG CNC 19" touch panel for increased ease of operation.

■ Multi-Control Torch

Optimum cutting with high-speed and high-accuracy can be performed by automatic setup—effective for both thin worksheets and thick plates.

A variety of unique technologies has been developed that incorporate the expertise of experienced machine operators that realizes unsurpassed productivity and higher accuracy.



OPTIPLEX 3015 FIBER III



8.0 kW high performance fiber laser

OPTIPLEX FIBER III SERIES

Mazak
Your Partner for Innovation

Yamazaki Mazak India Pvt Ltd

115, Pune Nagar Road, Sanaswadi, Pune. 412208. India Tel No - +(91)-2137-668800. Fax No. +(91)-2137-668829 www.mazakindia.in



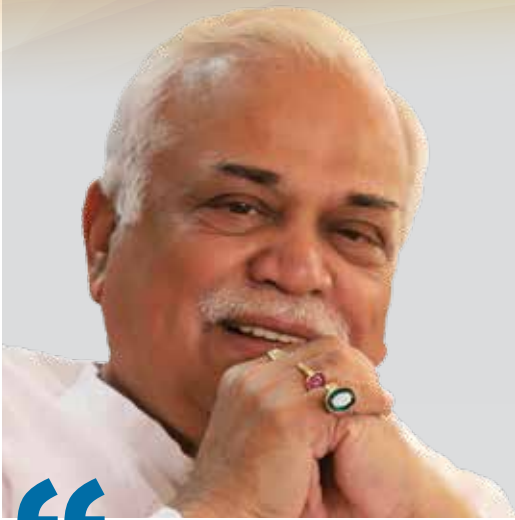
PLEASE VISIT
OUR BOOTH! >>>
Hall 4 / Stall B102



Key Takeaways

The Road Ahead

The first day of IMTEX FORMING 2018 & Tooltech 2018 brought industry veterans together to inaugurate the event. Optimism reigned as the leaders reflected on the past achievements and charted the future course.



“Make in India should happen in India, and exhibitions like IMTEX FORMING 2018 help Indian companies to grow. The industry also has a significant role to play towards skilling, which will not only address the pertinent talent gap, but will also help create employment.”

Shri RV Deshpande,
Hon'ble Minister for Large & Medium Scale
Industries and Infrastructure Development
Government of Karnataka



“Bangalore International Exhibition Centre (BIEC) is over a decade old now. The newly completed Hall 4 is our move towards green infrastructure. The latest addition, Hall 5, will be completed in time for the next edition of IMTEX. Together with the extension of Namma Metro to BIEC, we will be approaching our goal of enabling industry growth through world-class exhibition space.”

Jamshyd N Godrej,
Chairman - Exhibitions, IMTMA
Chairman, Board of Godrej & Boyce Mfg Ltd



“The manufacturing purchasing managers' index (PMI) recorded 54.7 in December 2017 as compared to 52.6 in November 2017. The rupee is gaining on the US Dollar, which is an encouraging sign for indigenous manufacturers. We are having a bullish year in 2017-18, which will carry over the next five years.”

P Ramadas,
President, IMTMA
Managing Director, AMS Ltd



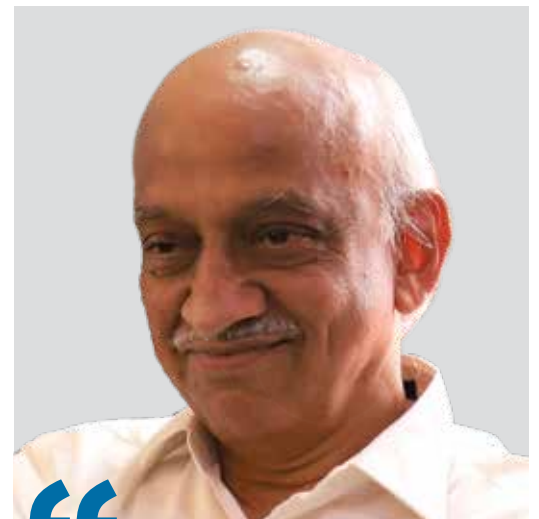
“Metal forming has traditionally been around 20 percent of the overall machine tool consumption in the country. This year, the sector has grown almost 15 percent, and is expected to cross ₹ 2800 cr in terms of consumption, up from around ₹ 2,450 cr last financial year. Riding on investments in various sectors like Auto, Aerospace, Railways and others, I have no doubt that the industry will be able to maintain this growth pace for the next two to three years.”

V Anbu,
Director General & CEO
IMTMA



“I congratulate IMTMA not only for organizing this exhibition for the machine tool industry, but also for the contribution of the machine tool industry to the growth and development of the engineering industry of the nation.”

Nirmal K Minda,
President, ACMA
Chairman & Managing Director, Minda Industries Ltd



“We may have missed out on earlier industrial revolutions, but now is our time to take on a leadership role, particularly when the Indian intellectual capability forms the key ingredient in all the value chains globally.”

AS Kiran Kumar,
Vikram Sarabhai Distinguished Professor
Former Chairman, ISRO

From compact to complex: The scalable Beckhoff CNC.



Industrial PC



I/O system



Servo drives



www.beckhoff.co.in/cnc

PC-based controllers from Beckhoff cover the whole range of high-precision CNC applications, from compact to complex.

- Highly scalable: the TwinCAT software platform for engineering and runtime
- Highly scalable: the Industrial PC range with processors from Intel® Atom™ to many-core
- Highly scalable: the I/O system for all signals and fieldbus systems
- Highly scalable: the highly dynamic servo technology for all performance classes
- Highly scalable: the safety solution, from system-integrated I/Os to drives

10 BECKHOFF ENABLING
MADE BY
INDIA
POWERING YEAR 10

Beckhoff Automation Pvt. Ltd.
Pune – 411 006, India
Phone: +91 20 40 00 48 00
info@beckhoff.co.in

New Automation Technology

BECKHOFF

Indo-Japan Scenario

Building Bonds With Technology

Japan Forming Machinery Association (JFMA) has been committedly working towards the development of the metal forming industry of its country. 10 members of the association have taken part in IMTEX Forming 2018 to witness the fast growing Indian market closely and make the best of it.

By striving to enhance manufacturing, distributing, trading of metal forming machinery and enforcing related policies, and various other measures, the objective of Japan Forming Machinery Association (JFMA) is to dedicate itself to the sound development of the metal forming industry as well as the progress of Japan's entire industry, and contribute to the prosperity of the national economy. Here, Tetsuo Obori, Secretary General, JFMA outlines his perceptions of IMTEX Forming and the growth of the industry:

Expectations from IMTEX

"The Indian automotive sales,

according to the latest information, has shown that it has surpassed the sales of Germany, and expanded to the fourth-largest market in the world, and will outsell the sales of Japan in the next few years. Thus, it will expand to be ranked as the world's third-largest market. In the IMTEX Forming 2018 show, approximately 10 JFMA members and associated corporations are taking part in exhibiting their products. For Japanese member corporations, it is becoming increasingly important to make efforts in the fast growing Indian market."

New Metal Forming technologies

"Manufacturing of not only auto-



“For Japanese member corporations, it is becoming increasingly important to make efforts in the fast growing Indian market.”

Tetsuo Obori
Secretary General
Japan Forming Machinery Association (JFMA)

motive components, but also the production of all kinds of consumer industrial products will grow at a rapid rate in India. We believe that eco-friendly and highly efficient metal forming technologies will be well accepted in India. The keywords are 'automation and labour-saving technologies'. Also, the use of Internet of Things (IoT) is important. We, as a nation, are taking initiatives to launch the latest technologies and products into the Indian market."

Japan Forming Machinery Association (JFMA)
www.j-fma.or.jp/en
Hall & Stall: 3A / Q-103

Knowledge Sharing

Hot Stamping Dies: The Schuler Way

Schuler's PCHflex allows a flexible and economical production of hot stamped parts with up to 40 percent higher output performance and consistently high quality, combined with maximum process reliability and availability.

All over the world, car manufacturers use more and more hot stamped parts because they offer high strength and low weight. Today, hot stamped A and B columns as well as roof frames or connecting plates can be found in almost every new car. According to experts, the demand will double to 600 million pieces by 2020. It was way back in 1993 that Schuler, a global market leader in the field of forming technology, started to manufacture the first three hot stamping lines for Ford in the United States. Since then, nearly 100 presses or lines have been manufactured and delivered worldwide. The range of Schuler products for hot stamping starts from presses, automation with robots or feeders, and hot stamping dies all the way to turnkey lines that act as a prime contractor for the complete equipment. During the last few years, several developments by Schuler with regard to hot stamping have been launched to help its customers be more competitive and successful in their market. Some of the key examples are hot stamping presses with PCH technology, high-speed twin feeder, hydraulic marking station, and advanced hot stamping dies with PCH features.



The PCHflex technology allows faster cooling of the parts by distributing the contact pressure more evenly and thus increasing output.

Focused on technology

Schuler's PCHflex technology allows faster cooling of the parts – which are heated to 930° C – because the contact pressure is distributed more evenly. This increases output performance significantly and ensures a more robust process with consistently high component quality. In other words, PCHflex leads to a flexible and economical production of hot stamped parts with up to 40 percent higher output performance and consistently high quality, combined with maximum process reliability

and availability. Furthermore, conventional hot stamping dies can also be used on PCHflex lines for alternate and start-up production. Located at the Schuler headquarters in Göppingen, Germany, the Hot Stamping Tech Center has been established to show the technology with all its features to the customers so that they can start manufacturing using hot stamping dies under production conditions and speed up the launch process at their site. In the tech center, the company can reach a minimum cycle time

of 8 seconds with one mm part thickness. This is possible if all elements of the line – press, forming die, furnace and automation – are optimized and the interaction is at an optimum. The tech center can be visited at any time to learn more about the process and the equipment. The Schuler Forming Academy also offers training sessions for starters in this technology.

Schuler India Pvt Ltd
www.schulergroup.com
Hall & Stall: 4 / B-107

Amada India

Fiber Laser line-up



AMADA
Fiber Laser Lineup

Amada developed its own fiber laser oscillator as the laser machine manufacturer for the first time



3kW

6kW

9kW

AMNC 3

Global standard
fiber laser cutting machine

LCG-3015AJ

*Also available as LCG-4020AJ



3kW

AMNC 3

Energy saving, v-lot production,
wide range fiber laser machine

ENSIS-3015AJ

*Also available as ENSIS-4020AJ



Hall No. 4
B108



Amada (India) Pvt. Ltd.
Technical and Vocational Center
No.60, KIADB Bengaluru Aerospace Park,
Singahalli Village, Budigere Post, Bangalore,
North Taluk - 562 129, India.
Ph: 080 - 71100200



Plasma Cutting

A cut above the rest

Plasma cutting is not only an extremely powerful, but also a very versatile process. Generally, all metals can excellently be cut with plasma. Only insulating materials can be cut under certain conditions. As pioneers in plasma cutting, Kjellberg Finsterwalde has worked intensively on refining this separating process since 1959. The company offers diverse products for CNC-guided and manual plasma cutting.

Kjellberg's Smart Focus series

With just a few settings, the plasma cutting units of the Smart Focus series from Kjellberg Finsterwalde achieves excellent results in the cutting range from 1 to 100 mm. Even under challenging conditions, highest cutting quality and speed are realized. Therefore, the company has been using its proven cutting technologies, for example Contour Cut, for cutting mild steel. Small contours, narrow webs and holes, with a diameter to material thickness ratio of 1:1, can be cut in excellent quality.



Smart Focus series from Kjellberg Finsterwalde achieves excellent results in the cutting range from 1 to 100 mm.

Source: Kjellberg Finsterwalde



GÜTHLE
IDEA AND SYSTEMS

ROLLBLOC DIE LIFTERS (SPRING / HYDRAULIC TYPE)



GUTHLE PRESSENSPANZEN GmbH

(C/o ANDREAS MAIER WORKHOLDING TECHNOLOGY PVT. LTD.)

116, 2nd Cross, NHCS Layout, Basaveshwaranagar, BENGALURU-79

☎ 080 23238444 📠 +91 9019191518 ✉ kunal@guethle-swt.de 🌐 www.guthle.com

Contour Cut allows the cutting of contours with a speed that is up to 50 percent faster.

Newly developed gas supply units are available for the Smart Focus series, either manual or fully automated. With these, the user achieves best cutting results with highest, reproducible quality. The new torches - PerCut 2000 and PerCut 4000 - have been improved as well. They provide precise cuts and highest cutting speeds. Their unique cooling system guarantees longest consumable life and reduces the gas consumption and costs per cutting meter.

Kjellberg Finsterwalde

www.kjellberg.de/en
Hall & Stall: 4 / B-113

Buyer-Seller Meet

IMTMA is organizing a Buyer-Seller Meet 2018 by inviting potential buyers of metal forming machine tools and allied equipment from target overseas markets to explore mutual business opportunities.

About 12 buyers from Sri Lanka, UAE, Oman, Argentina, Indonesia, Iran, Italy, Japan, Singapore, Turkey, China and the USA are expected to attend the meet. There is a 'Welcome Reception' at the International Lounge at Hall 4 of BIEC from 10.30 am to 11.00 am, following which the participants will be taken on a guided tour. Post-lunch, there will be a second guided tour.

Dates: January 26-29, 2018

Venue: Bangalore International Exhibition Centre, (BIEC)

Laser Cutting

Staying Ahead of the Curve

With its wide range of cutting-edge solutions on the display at IMTEX Forming 2018 that reflects the current trends in the evolving sheet metal industry, Yamazaki Mazak India finds itself equipped enough to cater to the demands from a diversified customer base.

With the Indian sheet metal industry evolving rapidly with its focus on high-speed, flexibility and automation, it is fiber laser that is quickly gaining increasing importance. The new trend being higher power fiber lasers. Companies like Mazak that invest majority of their revenue on research and development are, therefore, always on the lookout to offer something new to the industry. In this context, Mazak has introduced the new technology of DDL – Direct Diode Laser. The DDL technology delivers the performance of fiber laser with the reliability of conventional CO₂ laser. Apart from this shift from CO₂ to fiber to DDL, there is another trend which is prominently visible – the diversification of 3D lasers. Users who are looking forward to expand their business profiles to cater to a larger customer base have

been looking at 3D laser machines as one of the options.

As Anil Bhardwaj, Managing Director, Yamazaki Mazak India Pvt Ltd, explains, "New horizons are attracting the sheet metal industry players to explore diversified industrial applications like structural fabrication which also prominently requires 3D laser cutting. For such capabilities, prospective industries like solar structures, stadiums, airports, malls, amusement parks, etc. are to be kept in sight." Mazak has a strong product range to cater to these new emerging opportunities in the Indian sheet metal industry and this is what it has on display at IMTEX Forming 2018.

Matching the demand

Equally important is the aspect of customer expectation oriented towards automation in order to minimize depen-

dency on skilled manpower, in-process idle times, in-process rejections and bottlenecks during various production phases. "The customer's approach is changing from buying standalone machines to machines with automation so there is a rising demand for customized automation solutions to cater specifically to production flows and product requirements," he notes. Mazak has an innovative range of solutions that cater to small-scale industries as well as OEMs and mid to large-scale industries. "Given our capabilities, the order booking is really good for the first three quarters of this financial year. The Indian market is favorable in accordance with the various initiatives taken by the Indian government," Bhardwaj reveals.

Things are looking up

For Mazak's India operations, the

future seems bright. This, as Bhardwaj elaborates, is on account of the 'Make in India' policy. "Government policies now make it almost mandatory to produce in India. For example, commercial aircraft manufacturers are required to produce 30 percent of the parts in India. These initiatives have brought about collaboration between foreign and Indian companies. Another revolutionary trend is e-mobility which offers tremendous opportunities to sheet metal and machine tool industry players. Such a challenge with a deadline of the year 2030 can only be achieved with the help of innovative initiatives. And Mazak's 3D lasers, which are extensively used in sheet metal industry for trimming application of sheet metal body panels for two and four-wheelers, will gain prominence," he adds.



The Indian market is favorable due to the various initiatives by the Indian Government. It's encouraging that IMTEX Forming 2018 is happening at a very crucial period of this positive shift in Indian economy."

Anil Bhardwaj
Managing Director
Yamazaki Mazak India Pvt Ltd

Yamazaki Mazak India Pvt Ltd
www.mazakindia.in
Hall & Stall: 4 / B-102

Standard Parts for Dies & Mouldes



FIBRO
INDIA

Innovation. Reliability. Safety.



Stall No : D104, Hall 3A

25-30 January 2018

BIEC, Bangalore

Making In India

Rotary Tables for Machine Tools & Automation systems



FIBRO INDIA PRECISION PRODUCTS PRIVATE LIMITED

Head Office & Works: Plot no: A-55, M.I.D.C, Phase II, Chakan, Pune - 410 501

D +91 2135 670 900 E info@fibro-india.com W www.fibro.com

Case Study / Laser Cutting Machine

Defining Need, Finding Solution

SLTL's ARM X5, a 5-axis laser cutting machine, proves to be the perfect answer to the issues faced by automotive parts manufacturers. Here's why...

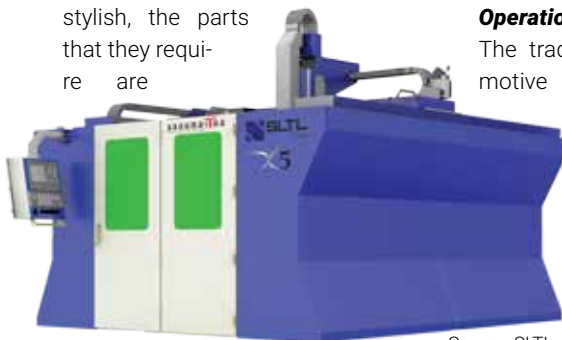
The automotive components industry over the last few decades has scaled up thrice to \$39 billion. The Indian automotive components industry is expected to register a turnover of a hundred billion dollars, backed by strong exports ranging between \$80-\$100 billion by 2026.

India is expected to become the 4th largest automobiles producer after the US, China, and Japan by the end of 2020. With such impressive statistics, the automotive component manufacturing units need to produce components with accurate finish. They should increase their production capacity in order to meet the rising demand. The units which are using old-school methods of cutting their automotive components need to upgrade to the latest 5-axis laser cutting machine. Despite their success in providing quality products with increased productivity to meet the rising demand, they are still encountering several challenges that need to be resolved.

Hurdles in the way

Operation for complex shapes

With cars getting increasingly stylish, the parts that they require are



Source: SLTL



The ARM X-5 is simple to operate and can easily cut complex shapes without any hassle.

getting more and more complex. Thus the component manufacturers are in search of quicker operations to produce complex shaped parts.

Variations in design

Due to a lot of variations in the design of components that must be processed in seconds, 5-axis laser cutting machine is the only cost-effective option possible.

Long operational hours

The cutting operations carried out by conventional methods need the parts to be rearranged repeatedly. This contributes to the prolonged time of the operations.

Operational cost

The traditional way of cutting automotive parts is time-consuming, which also increases the operational cost of the project.

Involvement of operator

The conventional laser cutting machines need a high

involvement of the operator, causing errors during operations.

Solution

SLTL is a pioneer in manufacturing fiber laser cutting machines. With its innovative solutions, it has introduced ARM X5, a 5-axis laser cutting machine to solve the automotive parts manufacturing problems. The machine has the capability to cut complex curves effectively and quickly. SLTL, with its ARM X5, has eliminated the cumbersome task of rearranging the parts, again and again, thus saving precious time of manufacturers. The software in the machine forms a nesting structure. The machine is user-friendly and can easily be operated by anyone.

ARM X5's features

The 5-axis laser cutting machine is simple to operate and can easily cut complex shapes without any hassle.

- It comes with advanced features including auto nozzle changer,



“We are very delighted with the ARM X5 machine from SLTL. It is way above our expectations. With its world-class quality, our productivity has increased and we are getting premium clients due to our quality products. We are soon to get our second machine from SLTL Group.”

Ilyas Sheikh
Director
Accusharp Cutting Tools

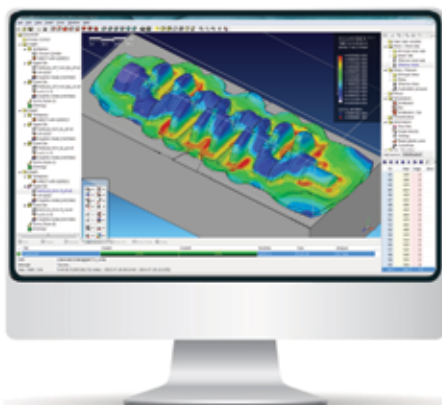
nozzle cleaner and dynamic edge control.

- The machine can be operated for long working hours without compromising the quality of the products.
- SLTL also provides quick responses to maintenance and services.
- The machine significantly contributes to the increase in production and the reduced cost of production.

Sahajanand Laser Technology Ltd (SLTL)
www.sltil.com
Hall & Stall: 2A / B-106

AFDEX

Adviser for metal Forming process Design EXpert



Just run it to forge the future

Visit us at **Hall 4 L104** to know more about
state-of-the-art metal forming
simulation technology

Altair | Partner Alliance
One Platform. One License. One Source. All Access.

Metal Working Machinery

On a Technologically 'Creative' High

With infrastructure and other sectors contributing to investments in recent times, Amada India is positive about its growth curve.

AMADA, since the founding of the company, has operated according to the motto of 'creativity', incorporating it into all of its products. With 60 years of experience in the development of metal working machinery, AMADA has been confident that it will continuously maintain a spirit of originality, guided with a viewpoint of the end user. The company established Amada (India) Pvt Ltd in April 2000, with its office in Mumbai. This is a wholly owned subsidiary of Amada Co. Ltd, Japan.



“Thanks to the Indian Government's initiatives like 'Make in India' and political stability, the market sentiment has improved, which has contributed to creating a positive market trend.”

Niraj Seth
President
Amada India Pvt Ltd

Source: Magic Wand Media Inc

Automation, focus at IMTEX

With its expertise in creating automation solutions for blanking and bending processes, AMADA is quite upbeat about the response it will generate at IMTEX Forming 2018. “The market is witnessing an upward trend and most companies are looking at investing or upgrading the way they fabricate their products. Thanks to Indian Government's initiatives like 'Make in India' and political stability, the market sentiment has improved, which has contributed to creating a positive mar-

ket trend,” says Niraj Seth, President, AMADA India.

“During this IMTEX, we will propose suitable automation for blanking and bending processes to those who visit our stall. When we talk about high-speed laser cutting machines, overall productivity cannot increase without automation. Standalone high-speed laser cutting machines cannot deliver high productivity. Similar is the case for the bending process, when it comes to quality product,” Seth adds. What is also driving AMADA India is the shift

from CO₂ to fiber in laser cutting technology. The company is also exhibiting at the show its 6 kW fiber laser which employs its own path-breaking laser engine technology.

“We are also displaying our new hybrid press brake with automatic work support system to achieve high quality, accuracy and productivity. Besides this, we are exhibiting a new digital factory concept - VPSS 3i and IoT - and how this will impact the total fabrication process, after blanking and bending,” Seth informs.

Future positive

With most manufacturing sectors such as construction machines, railways, automobile, elevator, telecom, power and many others treading on an upward track and heading ahead with big numbers of growth, these offer potential to AMADA India. “These sectors have contributed to investments and we will be on that same growth path,” says Seth.

Amada India Pvt Ltd
www.amadaindia.co.in
Hall & Stall: 4 / B-108

Visitors Perspective

A comprehensive exhibition



“It is a good thing that the organizers have separated IMTEX Forming from IMTEX Cutting. There are more foreign exhibitors participating this time. It's a well-planned exhibition and the feeling is shared by many with whom I have interacted.”

SN Dileep
Unit Head
Apollo Tyres Ltd

A well-planned exhibition



“It is a good thing that the organizers have separated IMTEX Forming from IMTEX Cutting. There are more foreign exhibitors participating this time. It's a well-planned exhibition and the feeling is shared by many with whom I have interacted.”

Manoj Kabre
Vice President - Marketing
Indo-MIM Pvt Ltd

Innovation on the showcase



“IMTEX Forming 2018 is a display of interesting and innovative products. For example, a German company is showing a precision drilling machine, which can drill from 1.5 to 25 mm with great accuracy. The same machine can also be used as a tapping machine.”

Nitin Sonawane
AGM - Production Engineering
IMA - PG India Pvt Ltd

雷鸣激光
LEIMING LASER

Ribal Metfab India (P) Ltd.
Deals in: Laser Machine, Turret Punching, Press Brake, Shearing, Power Press

Hall No. 4
Stall No. C126

With our current product range we offer machines of our product range at very competitive prices on short delivery. Fast moving machines are being kept in stock in view of regular market demands. Our range of products and services are as under -

CNC Laser cutting machine Refurbished / Used Turret Punch Presses CNC / NC Press Brakes CNC / NC Shearing machines CNC Oxyfuel & Plasma cutting machines Power Presses	Pipe bending machines Toolings for press brake & turret punch press UB Flatbed printing machines CNC injection moulding machines Consumables for laser cutting machine Spare parts	AMC s / services of sheet metal forming machines Cut to length lines Slitting Lines CO2 laser for non metallic applications
---	---	--

Ribal Metfab India

RIBAL METFAB INDIA PRIVATE LIMITED
 Plot No. - 411, Badkhal Pali Road, Near - Psp Dharamkata, Faridabad - 121005
 Contact Person - Balwinder Kalyan (M- 09818009901) / Info@Ribalmetfabindia.com
 Sharad Avasthi (M- 8178907557) Sharad@Ribalmetfabindia.com
 Web - www.ribalmetfabindia.com

Laser Processing Machine

Mazak's Fiber Laser Cutter

Mazak's OPTIPLEX NEXUS 3015 Fiber comes in various power versions of 2kW, 3kW and 4kW. Various advanced features of Mazak include:

Multi-control torch: The multi-control torch provides optimum cutting with high-speed and high-accuracy performance - effective for both thin worksheets and thick plates.

Low running cost: The fiber laser does not require laser gas or gas for optics purge as used in CO2 laser machines. The fiber laser eliminates the mirrors and other components of the beam delivery path by using fiber optics to significantly reduce the cost of maintenance.

Advanced CNC MAZATROL PREVIEW 3: The MAZATROL PREVIEW 3 CNC features touch

screen operation for improved response and ease of operation. The programming of simple shapes is easily done by selecting cutting patterns.

Extensibility: The OPTIPLEX 3015 Fiber can be integrated into a compact manufacturing cell (multiple pallet changer) or extensible manufacturing cell (Laser FMS) to meet unique production requirements.

Fine power ramping: When cutting mild steel and stainless thin / mid worksheets, fine power ramping optimizes the cutting conditions so that dross on the bottom of the worksheet is prevented and quality surface finishes are produced during high speed cutting.

Specification		Values
Feed Axes	Travel (X axis)	3100 mm / 122.05 in
	Travel (Y axis)	1580 mm / 62.2 in
	Travel (Z axis)	150 mm / 5.9 in



Yamazaki Mazak India Pvt Ltd
www.mazakindia.in
marketing@mazakindia.com
Hall & Stall: 4 / B-102

Fiber laser processing machine OPTIPLEX NEXUS 3015.

Source: Yamazaki Mazak India Pvt Ltd



For Advertising Contact:
Murali Sundaram: +91 9740048390
murali.sundaram@mmindia.co.in



Indian Machine Tool Manufacturers' Association

in association with



www.mmindia.co.in



Foundation Course in Sheet Metal Manufacturing

26 February 2018 to 12 March 2018
IMTMA Technology Centre, Chinchwad, Pune

Overview of Sheet forming Processes

Basics of Cutting, Bending and Forming Operations

Presses and Press Lines

Type of Dies

Manufacturing process for Dies

Tryout of Dies

Assembly Techniques and Fixtures

For Registration contact :
Abhishek Kumar Verma ; Executive Officer, IMTMA
Tel : 020-64100182 / 64100183 ; Mobile : +91 8237960076
Email : abhishekverma@imtma.in

www.imtmatraining.in

Industry Delegate's Voice

Sheet Metal industry appreciates IMTEX FORMING 2018



Source: Magic Wand Media Inc

Representatives from Bengaluru-based Rajalakshmi Commercial Kitchen Equipment Pvt Ltd, a part of Rajalakshmi Group, have been visiting IMTEX exhibitions for the last four years to be on top of the technology trends in sheet metal forming. Emphasizing on the importance of IMTEX to his business, Rohit M Raghavendra, CEO of the company says, "Since we are into commercial kitchen equipment manufacturing, sheet metal forming is our core activity. We have come across certain latest sheet metal forming technologies that are relevant to us. The exhibition has, thus, been of immense value to us."

Industry-Academia Collaboration

i2 Pavilion brings forth the best in innovation

The Industry-Institute Academia Pavilion (i2 Pavilion) initiative by IMTMA at IMTEX Forming 2018 is proving to be a win-win strategy for the academia and the industry. An insight into the R&D efforts by the participating institutes that have got them under the spotlight.

"Pan Head Bolt & Insert Component Die Wear Analysis in Hot Forging" -- Bannaramman Institution of Technology, Erode

The project presents that the critical problems in hot forging process is the temperature rise in the die cavity and huge stresses generated during forging operation which leads to die failure viz. wear, deformation of die, cracks, etc. In this study, wear analysis was carried out in a pan head bolt die in a local industry.

"Reactive DC Magnetron Sputtered Nanostructured CDO Chemi-Resistor for Methane Gas Sensing" -- Bharath University

The work depicts comparisons to conventional sensors in the market. The nanostructured sensors will have enhanced efficiency.

"Optimization of Cutting Parameters in Drilling of Epoxy Resin Composite

Material using Taguchi's Technique" -- BMS College of Engineering, Bangalore
The project presents Taguchi's technique. Taguchi technique is a powerful tool in experiment design and it provides a simple, efficient and systematic approach for optimization, quality and cost. The methodology is valuable when the design parameters are qualitative and discrete.

"Design of Layout & Ergonomics Analysis of Wheel Rim Production Unit using Digital Manufacturing Technique" -- Chennai Institute of Technology, Chennai

The research talks on the major advantage of using a virtual plant layout (Digital Manufacturing Technique), which is that we can visualize the plant before commissioning. The ergonomic studies are clearly made and implemented which gives confidence in plant layout modification.

"Pneumatic Multipurpose Machine" -- City Engineering College, Bangalore
The research aims to develop a multipurpose machine required for many applications, using pneumatic systems for operating punching, pressing, and bending.

"Experimental investigation of Effect on Surface Finishing by Minimum Quantity Lubrication [MQL] with Varying Feed Rate" -- HKBK College of Engineering, Bangalore

The research presents minimum quantity lubrication required during turning operations to set a benchmark for selecting desired lubrication conditions to varying feed rate at a constant spindle speed. The work also highlights the impact of various lubrication conditions on the surface finishing.

"Development of Cutting tools and advanced environment-friendly ionic lubricants for dry, near-dry / MQL and

cryogenic machining" -- IIT-Ropar, Rupnagar

The project presents Deformation Machining, a new hybrid manufacturing process, which is a combination of thin part machining and single point incremental bending and forming.

"Interface behavior of aluminum and iron powder compacts at room temperature" -- IIT Bombay, Mechanical Department, Mumbai

The research presents on light weighting and solid state recycling of scrap work towards reducing the quantity of pollutants released into the environment. Light weighting of components, especially those in automobiles, promises substantial spinoffs in the form of fuel economy and reduction in emissions.

To know about the various other projects by the above institutes, visit Hall 4.



Booths of engineering colleges and institutes exhibiting their pathbreaking R&D projects in metal forming field.

Kjellberg
CUTTING AND WELDING INDIA

**Silence is Golden
Silent Cut**

Precise and fast of plasma cutting do not have to be loud: Go into the future with us and our new cutting technology - live at Imtex 2018, hall 4, stand B113.

up to -15db
plasma 4.0
next generation

KEEP
CALM
AND
CUT
SILENTLY



More Information

Phone: +91 20 26741042 | Fax: +91 20 26741001
vertrieb@kjellberg.de | www.kjellberg.de

THE ORIGINAL
MADE IN GERMANY
SINCE 1922
kjellberg.de

End-user's Perspective

Partners in Success

The Automotive Components Manufacturers Association of India (ACMA) has been enthusiastically collaborating with Indian Machine Tools Manufacturers' Association (IMTMA) for all its events. Nirmal Minda, President, ACMA, spoke in deference to this long-standing tradition as a Guest of Honour at the Inauguration Ceremony of IMTEX FORMING 2018 & Tooltech 2018. Excerpts from his insightful address...

The automotive and auto ancillary industries are primary drivers of the Indian Machine Tool industry. In the auto components sector, we have always considered the machine tool industry vital to us. I am given to understand that ACMA members account for up to 60-65 per cent of the machine tool demand in the country.

A high-growth sector

Over the years, the automotive industry in India has witnessed steady growth and today, we are the fifth largest auto industry in the world, expecting to rise to the third position in the near future. The Government of India, automotive manufacturers and auto component industries have drawn the collective roadmap for the next decade which is called the Automotive Mission Plan 2016-26. It has set the target of achieving 13 million passenger vehicles, 3.9 million commercial vehicles, and 55 million two-wheelers by 2026. This should result in the auto component industry growing five times its current size of \$ 40 billion to \$ 200 billion, with

exports scaling up to \$ 70 billion.

This, in turn, represents a significant growth opportunity for the Machine Tool industry, and I am happy to mention that ACMA and IMTMA are jointly working to develop a roadmap to fast track improvements in the Indian Machine Tool sector. This includes: Improving reliability of peripherals; Conducting detailed Machine Tool machine manufacturing benchmarking; Joint cooperative development of new machines of the highest standard to replace imports.

Brace for change

Today the automotive industry in India is witnessing a significant challenge on the technology front, which is the induction of new requisitions in terms of safety conditions, environment and graduating from BS IV to BS VI. On the other hand, the Government's push for expediting the introduction of and skilling of the electric mobility in the country is creating a complete paradigm shift on the concept of mobility.

The component industry will witness a major disruption unless we prepare

ourselves well to face these changes. Ladies and gentlemen, these disruptive changes will not be limited to the component industry alone, but will impact the automobile value chain and the whole supply chain.

ACMA has conducted two detailed studies on the impact of the introduction of electric mobility on the com-

ponent industry. We will be happy to share the findings of this study with IMTMA.

Joint aspirations

At present, 65 per cent of the requirement is being met through imports. Localizing this supply is a big challenge for us.

Machine tools sector like automotive component industry is dominated by MSMEs and there is an urgent need for larger companies to hand-hold these companies, lest the competitiveness of our entire engineering industries will be at stake.



“I am confident that ACMA and IMTMA will continue to work closely together to realize our common vision and goal of a world class, world scale and world sized engineering industry in the country.”

**Nirmal Minda,
President, ACMA**

Are you looking for higher **PRODUCTIVITY**

Train your engineers at **IMTMA**

Bangalore | Pune | Gurgaon

150+ Focused Technical training programmes on

**Maintenance
Metal
Forming
Emerging
Technologies**



**Design
Productivity
Quality
Automation**

86000+ mandays of training delivered 2009 onwards

150+ Training Programmes

5000+ Companies Trained Across India

www.imtmatraining.in



Sheet Metal Cutting

Cutting it Right

With its many years of expertise in offering a wide range of machines for sheet metal cutting operations, Ribal Metfab India is excited about showcasing its latest product at IMTEX Forming 2018, a CNC fiber laser cutting machine from a leading Chinese brand, Leiming Laser.

With huge stocks at its disposal to take care of urgent demands and making them available at a highly competitive price, Ribal Metfab India has on offer a wide portfolio comprising CNC laser cutting machines, refurbished/used turret punch presses, CNC/NC press brakes, CNC/NC shearing machines, power presses, pipe bending machines, tooling for press brakes and turret punch presses, UB flatbed printing machines, CNC injection moulding machines, etc. The company also specializes in refurbishing old machines.

For this kind of market presence, a show like IMTEX Forming works almost like a launch pad for the company because it gives it the opportunity to showcase new technologies and machines. "We are now in an open economy wherein the customer wants the best quality at the best price. The options available are aplenty and therefore IMTEX offers a platform where you can prove your mettle and attract the right kind of clients. Moreover, this is where the best brands from across the world come together to share technologies and that is what

makes it so interesting," says Sharad Avasthi, Director - Sales & Marketing, Ribal Metfab India Pvt Ltd.

On the display

At this edition of the show, Ribal Metfab India has on offer the latest CNC fiber laser cutting machine from a reputed global brand, Leiming Laser. "With low initial capital investment and minimal running cost of ₹ 250-500 per hour, these machines are perfect for today's challenging demands. On display here will be the 1 kW laser cutting machine in table size of 3000 mm x 1500 mm. This can cut up to 14 mm mild steel, 5 mm stainless steel, 3 mm aluminum and 1 mm copper. The machines are available in 500/700/1000/1500/2000/3000/4000 watt. The laser source is from IPG/RAYCUS, which are the best in their class. With improved new designs, Leiming Laser's CNC cutting machine is a perfect fit for metal processing workshops," informs Avasthi.

Leiming Laser, the how stopper

Given the fact that IMTEX will provide the right kind of exposure, Ribal Metfab



Source: Magic Wand Media Inc

India has a plan to connect with sheet metal and metal processors across the country that are engaged in various sectors, including elevators, furniture, railways, defence, heavy fabrication, canopies, panels, racks, welding accessories, etc. "We have invited all our existing and potential customers visiting IMTEX to witness the live performance of the Leiming Laser cutting machine. We will use this opportunity to also explain our plan for providing spares, after-sales service and training to operators. This will surely improve our market share in India," states Avasthi.

“IMTEX offers a platform where you can prove your mettle and attract the right kind of clients. This is where the best brands from across the world come together to share technologies and that is what makes it so interesting.”

Sharad Avasthi
Director - Sales & Marketing
Ribal Metfab India Pvt Ltd

Ribal Metfab India Pvt Ltd
www.ribalmetfabindia.com
Hall & Stall: 4 / C - 124 & 126

15



**Would you like to be crowned a Champion of
PRODUCTIVITY | TECHNOLOGY | INNOVATION....**



**IMTMA - ACE MICROMATIC
Productivity Championship
Awards 2018**

"Showcasing Competitiveness in Manufacturing"

Share your success stories !

Win Cash Awards upto

₹ 10,00,000

No Entry Fee | Multiple Entries Welcome !

**Productivity Champions will be crowned at
National Productivity Summit 2018
24 - 25 August 2018, Chennai**

**Rush your
entries by
7 April 2018**



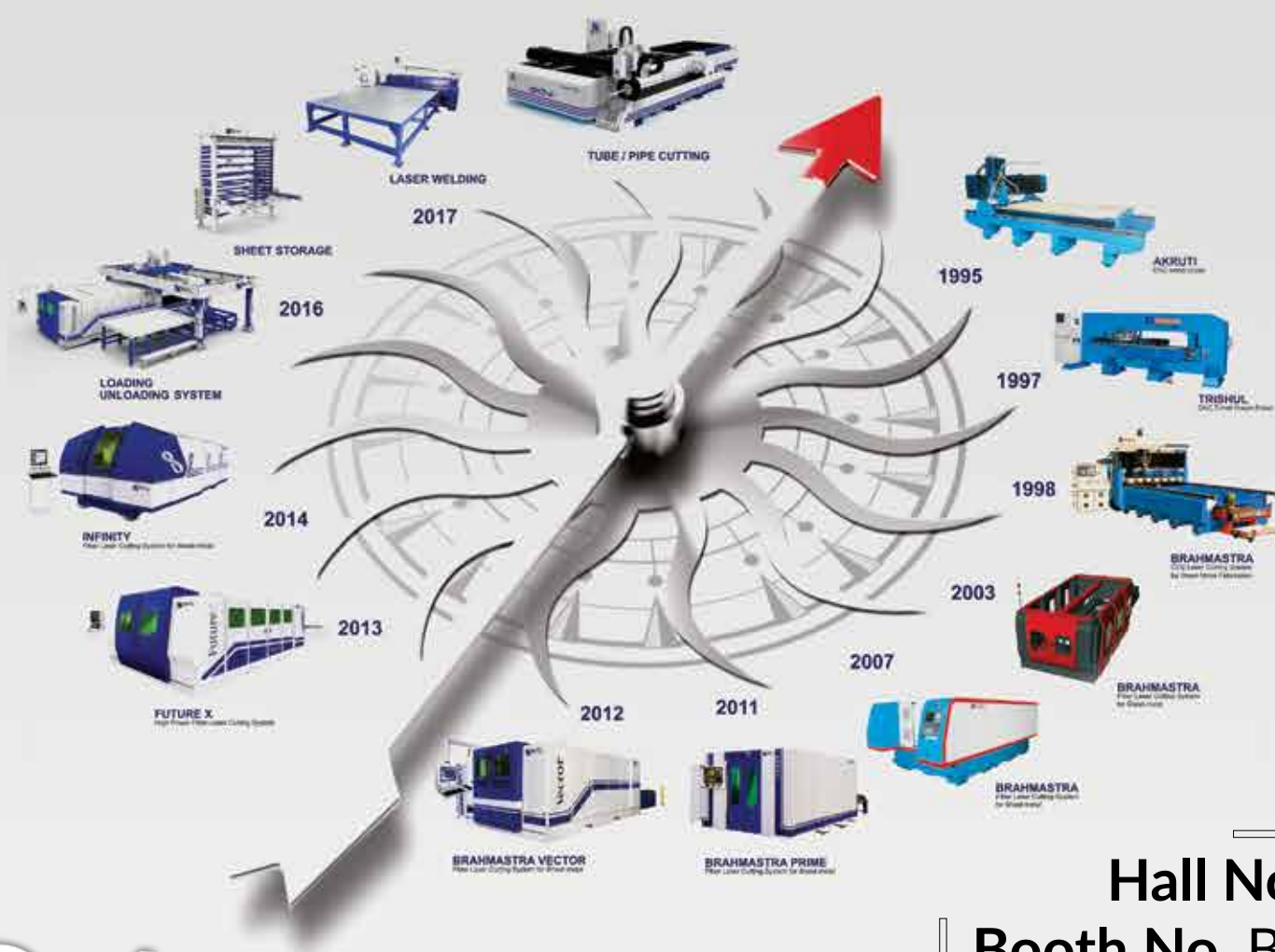
Indian Machine Tool
Manufacturers' Association
www.imtma.in

Awards Sponsor

**AceMicromatic
Group**

For more details, contact :
Mr. Abhishek on 080- 66246829 / 6665
Mobile : +91 9886611007
Email : abhishek@imtma.in

EVOLUTION OF EXCELLENCE



Hall No. 2A
Booth No. B 106

January 26 Happy Republic Day

What we are showing today
the world will show tomorrow