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Published By



Indian Machine Tool Manufacturers' Association

JANUARY 23 – 28, 2020, BANGALORE, INDIA

The official Show Daily of IMTEX FORMING 2020

Day 3 • Saturday, January 25, 2020

LASER TECHNOLOGIES™

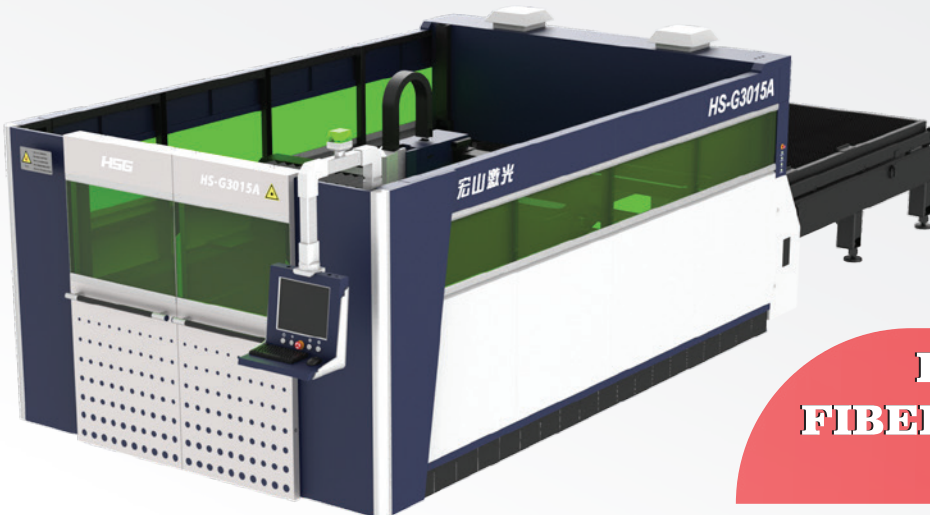
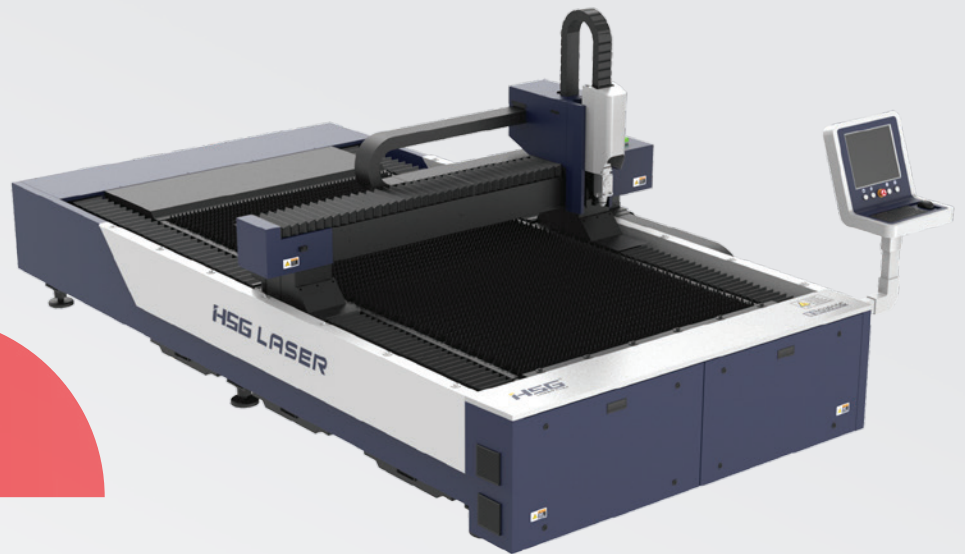
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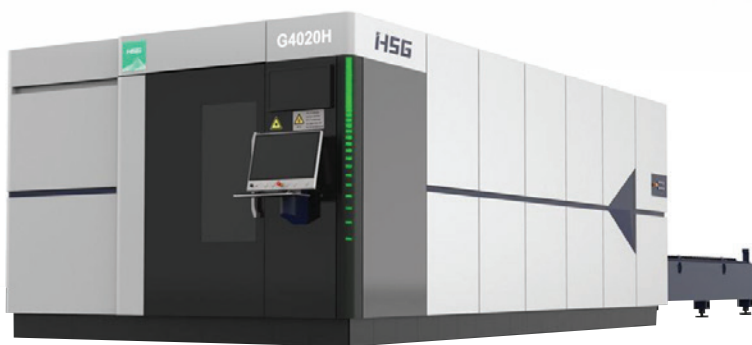
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SHOW DAILY™

The official Show Daily of IMTEX FORMING 2020

Day 3 • Saturday, January 25, 2020

LASER CUTTING MACHINES

Laser Technologies Pvt Ltd
www.lasertechnologies.co.in
Hall 4, Booth B-137

Keeping Pace with Evolving Industry

Rakesh Agarwal, Managing Director, Laser Technologies, presents his outlook on the advanced technologies in the metal forming sector, the company's commitment to the tech savvy Indian market and the importance of being on the IMTEX FORMING platform.



Source: Magic Wand Media
Laser Technologies' team at the company booth at IMTEX FORMING 2020

Technology has pervaded every aspect of our lives; it has become more important than ever and increasingly apparent in all manufacturing. Attesting to that fact, Rakesh Agarwal, Managing Director,

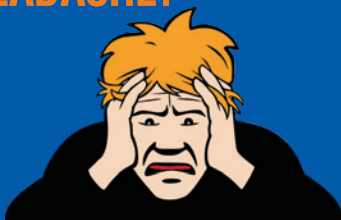
Laser Technologies Pvt Ltd, notes, "It's just an evolutionary step. Factories today look and function nothing like they did a decade ago. Advanced technologies have made a significant foray into the metal

forming sector over the last decade or so. We have been seeing machines replacing humans in jobs since the industrial revolution and even more with the advent of computers."

Digitisation of information and the development in software has made the industry unprecedently agile and there's no stopping this. "Although big data and IoT find

To be continued on 4 ➔

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“We keep a close eye on technological developments happening in India and abroad and are prepared to take new technological products on board. Indian customers are more open to accepting new technologies than they have ever been.”

Rakesh Agarwal
Managing Director
Laser Technologies Pvt Ltd



Source: Magic Wand Media

Rakesh Agarwal, Managing Director, Laser Technologies Pvt Ltd, at the company booth

Continued from 3

little use in metal forming, robotics does. We expect software and robotics to drive smart manufacturing in metal forming,” he adds.

Committed to Indian market

The change in requirements is often technology-driven, points out Agarwal. “All new technologies take time to become industrialised. We keep a close

eye on technological developments happening in India and abroad, and are prepared to take new technological products on board. Indian customers are more open to accepting new technologies than they have ever been. I think we have also played our part in making India a tech savvy market. We are no longer a market for used machines (in our sector specifically but in all tech intensive sectors in general),” he adds.

As Indian customers’ demand for technological advancements grows, so does the efforts in research and development. The industry is both push and pull driven.

As of now, Laser Technologies does not export its products, and prefers to remain committed to Indian customers. Some of India’s largest corporates are its clients. But what essentially makes the company proud is its growing list of MSME customers. Agarwal is thankful to all of them for the faith and confidence they have supported him with.

Leveraging IMTEX FORMING

Taking part in IMTEX FORMING is crucial to the company. The team at Laser Technologies considers it as an ideal platform for customers to conduct their A/B tests. They can compare products in the same environment, at the same time, and with fewer variables. “At the same time, it’s a great opportunity for people who have the best products, which we are sure we do. We plan to leverage the exhibition by showing the customers our products and asking them to make an informed comparison before making buying decisions in the future,” shares Agarwal.

Apart from what happens at the expo grounds, it also gives teams from across the country to mingle with each other. Laser Technologies has flown down its teams from Delhi, Mumbai, Pune, Ahmedabad, Baroda, Jaipur, Jalandhar, Raipur, Indore, Chennai, Hyderabad and other geographies.

“IMTEX FORMING gives an opportunity to manufacturers in India and abroad to showcase their products. Cutting-edge technologies, which were previously not available for Indian customers to see first-hand, are displayed in front of them. This makes customers more confident in opting for these products,” he adds.

When asked if he is targeting any particular sector at the show, Agarwal replies that as a businessman, one should keep an eye on all sectors and industries. “It is unfair to single out some sectors and industries as important. We will see growth in automobile, defence, aerospace, appliances, etc. Moreover, we have varied products to suit the needs of many industries,” he adds.

Technology helps compete

Agarwal says that it’s easy to see the difference today. A few years ago, there would be few champions of technology in major cities. “Today, the competition is fierce. People realise that technology and smart manufacturing can help one compete at a global level, and are, hence, ready to invest to make products lucrative and affordable to customers,” he notes.

“It has made both the machinery market and the job work market as customer markets. This results in end users getting good prices, job shops optimising their production via intelligent operations and new technologies, and the machine manufacturers earning honest profits,” he says summing up.



Source: Magic Wand Media

How to locate a stall at IMTEX FORMING 2020?



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Fiber Laser line-up

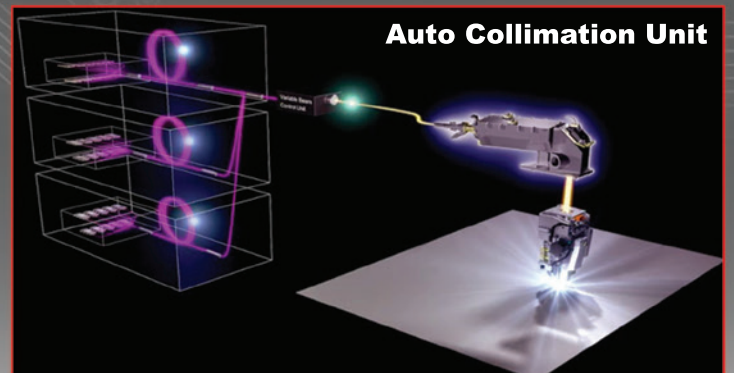


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BUYER-SELLER MEET

RBSM Starts with a Bang

With the aim to provide a platform for the Indian Machine Tool manufacturers to interact with international buyers, IMTMA along with EEPC India has organised the Reverse Buyer Seller Meet (RBSM) at IMTEX FORMING 2020. Highlights of the yesterday's inaugural session...



(L-R): R Seshagiri, Deputy Regional Chairman - South, EEPC India; TK Ramesh, Chairman, IMTMA Export Development Cell and MG Srinivas, Executive Director, IMTMA at the opening session of the International Buyer-Seller Meet

The International Buyer - Seller Meet organized jointly by EEPC India (Engineering Export Promotion Council) and IMTMA (Indian Machine Tool Manufacturers' Association), under the aegis of the Government of India, started yesterday with an impressive turnout. Talking about the initiative at the Meet's inaugural session, TK Ramesh, Chairman, IMTMA Export Development Cell, highlighted the strengths and capabilities of

the Indian Machine Tool Industry. He said, "Today, globally, India holds the ninth position in machine tools manufacturing and the seventh position in their consumption." R Seshagiri, Deputy Regional Chairman - South, EEPC India, spoke on the advantages of buying machinery from India, "Indian machine tools are reasonably priced. The conversion of Indian currency is quite easy from any part of the world, and Indian support to the buyers is excellent."

The session ended with vote of thanks from MG Srinivas, Executive Director, IMTMA. This

time 15 overseas buyers are participating in the buyer-seller meet.



Source: Magic Wand Media



Source: Magic Wand Media

"This is my fourth time at the Meet. Such exhibitions are not held in our country so coming to Bangalore to closely explore new technologies and make deals with companies suits us."

Supun Harshana
Assistant General Manager
Pubudu Engineering Pvt Ltd
Sri Lanka



Source: Magic Wand Media

"I have come here for the first time and find the platform apt for interacting with Indian Machine Tool manufacturers. It's a highly organised attempt at making people network and explore business opportunities."

Nishanth Narikodan
General Manager, Rockwood
Machinery,
United Arab Emirates



Source: Magic Wand Media

"This is my second visit to IMTEX Buyer-Seller Meet. Indian machine tools are high quality and reasonably priced. Our people have great regards for the Indian products."

Mostafa El Gendy
General Manager
Omega Technology
Egypt





Indian Machine Tool
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ADVANCED AUTOMATION SOLUTIONS

Doing it Smartly

Beckhoff India wants end users at IMTEX FORMING 2020 to get acquainted with the latest technologies for enabling their manufacturing activities to Industry 4.0 level with smart machines.

“The end users must insist their machinery vendors to implement the PC Control technology using EtherCAT fieldbus for higher machine performances. We are promoting the TwinSAFE and TwinCAT Solutions at the show,” suggests Ajey Phatak, Head Marketing, Beckhoff Automation Pvt Ltd.

IoT enabled Smart CNC solution with PC-based Control

Beckhoff is showcasing its latest IoT enabled Smart CNC solution with PC based Control. The PC- and EtherCAT-based CNC solution from Beckhoff integrates all machine functions into one hardware and software platform. This powerful system is characterised

Beckhoff Automation Pvt Ltd
www.beckhoff.co.in/cnc
Hall 3A, Booth A-121

“The end users must insist their machinery vendors to implement the PC Control technology using EtherCAT fieldbus for higher machine performances. We are promoting the TwinSAFE and TwinCAT Solutions at the show.”

Ajey Phatak
Head Marketing
Beckhoff Automation Pvt Ltd

Safety PLCs and dedicated safety networks can now be eliminated. The TwinSAFE safety modules are incorporated flexibly into the complete I/O system with IP 20 or IP 67 protection. The engineering can be carried out efficiently and comfortably – like all other control functions – in TwinCAT.

All in one: the TwinCAT CNC

As an open all-in-one CNC, TwinCAT integrates all functions on a single control platform and simplifies the engineering for all applications. It:

- Integrates PLC, robotics, HMI, safety, scope
- Leads to optimum HSC integration
- TwinCAT IoT and TwinCAT Analytics for cloud-based Automation make predictive maintenance possible.

Smart technologies optimise machine tool productivity

“Beckhoff is focusing on sustainable production concepts on the basis of Industry 4.0, digitalisation and intelligent networking,” shares Phatak. The secure exchange of data along the entire process chain is now guaranteed with the new interface standard umati – universal machine tool Interface – for the connection of machine tools to higher-level IT systems. Beckhoff was involved in its development as a project partner and is presenting its PC controller with integrated umati interface at IMTEX FORMING 2020 trade show booth.

by high performance, openness and flexibility. The universal TwinCAT automation software and the fast EtherCAT fieldbus system, Industrial PCs, Control Panels, I/O components and drive technology combine to offer a complete solution for CNC machining. The Beckhoff CNC platform is suitable for all industries, processing technologies and machine kinematics: from compact dental machining centres and woodworking machines to complex plasma cutting and welding machines.

Integrated safety technology

With TwinSAFE, Beckhoff offers an open, scalable safety solution that is entirely integrated in TwinCAT and combines safe I/O technology with safe drive technology in one system. Traditional stand-alone



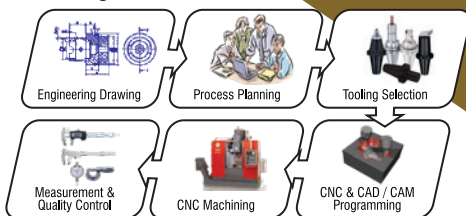
Ajey Phatak, Head Marketing, Beckhoff Automation Pvt Ltd (second from right) along with the team at the company booth



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RBSM
Date: Jan 25, 2020
Venue: Hall 4, Arena

MSME CORNER

“IMTEX FORMING plays a major role in reaching out to customers who come here looking for innovation to add value to their plant and machinery. The return on investment is what makes them come here. There

are some positive steps taken by the government including the initiative of ensuring that payments to MSMEs reach them in 90 days. This is a great news for us. Meanwhile, R&D is something we see beyond our means. Investing in R&D is a long gestation, which is what makes it less sustainable for MSMEs. Collaborative efforts with universities might be helpful.”

Jagjeet Paul Singh
Director - Sales & Marketing
Orcan Products of India

“Considering that we deal with engineering products, the government is looking at our welfare too. However, certain policies like GST are yet to be resolved. IMTEX FORMING, being one of Asia’s big-

gest exhibitions, is a great platform. The exhibitors and visitors are equally of that scale. We look forward to some good orders. As indigenous manufacturers, our appeal to the government is to share our responsibility.”

Samir Juthani
Partner
Malkar Industries



Source: Magic Wand Media



Source: Magic Wand Media



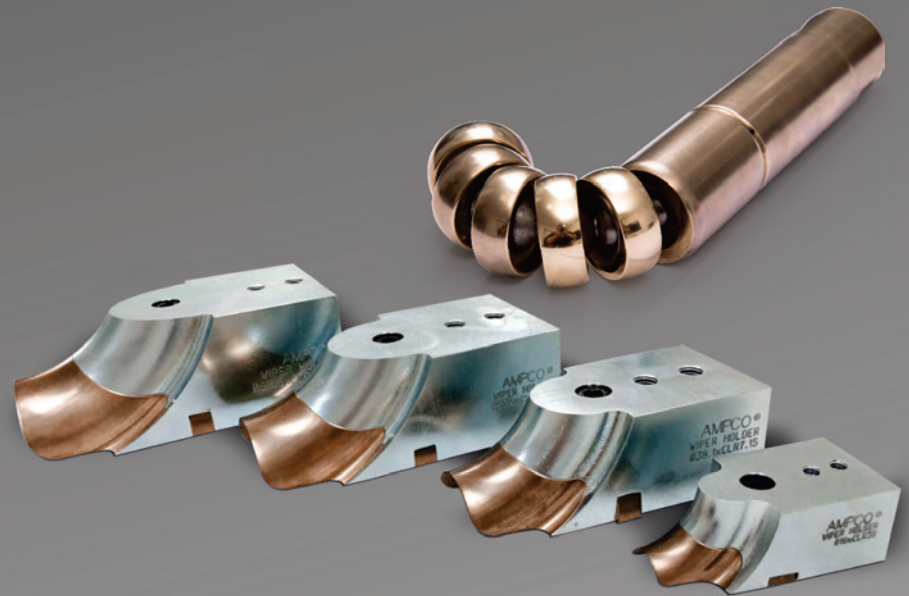
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FIBER LASERS

IPG Photonics (India) Pvt Ltd
www.ipgphotonics.com
Hall 2A, Booth B-104

With Laser-Sharp Focus

IPG Photonics (India) is here to leverage what it considers its prime brand promotion platform to showcase its innovative fiber lasers that find their applications in a host of sectors.

IMTEX FORMING 2020 & Tooltech 2020 is an ideal platform for IPG Photonics (India) to make people aware of the applications of fiber lasers that can replace conventional methods. "The gamut of industries exhibiting in this show in the machine tool segment can benefit tremendously with fiber lasers. They can achieve superior quality and finish in their job, which is

of prime importance, with the use of fiber lasers," says Rajesh Sharma, General Manager, IPG Photonics (India) Pvt Ltd. The company has been a regular participant at IMTEX and has witnessed the growth story of this show which has run in conjunction with its own. "Year on year, this show has found huge success, making us look forward to this show as our prime brand promotion

platform. The diversity of footfalls and the presence of industries in huge numbers across sectors is what makes IMTEX stand out from other similar shows," he notes.

Gaining recognition

At the show, the company is introducing three of its distinctive products which has earned approval across the globe:

YLS AMB (Adjustable Mode Beam) Lasers: They provide independent programmable tuning of the output beam mode to any combination of a small-spot high intensity bright core and a larger ring-shaped beam.

HPP (High Peak Power) Lasers: The 2x Peak Power Boost QCW option on the latest YLR and YLS Lasers enables the user to run a CW laser in a pulsed mode with 2x increase in peak power in comparison with CW average power.

LDD 700: LDD 700 in-line weld QA tool for remote scan welding applications offers five monitoring modes: keyhole depth, seam profile, workpiece height, finished weld surface height and bead profile.

Targeting upcoming industries

The company's primary target audience at the show are the end users related to industries including Railway Coach manufacturing, Sheet Metal industry, Defense, and Automobile where fiber lasers have found an unparalleled importance. "Although our customers are mainly the OEMs who, in turn, provide complete solution to the end users along with our lasers, we aim to enhance the knowledge of our end users who are the primary users of our lasers," he adds.

IPG Photonics (India) also plans to target the upcoming industries related to Battery Welding applications and Additive Manufacturing. "We have already proven the efficacy of our lasers in battery welding projects and also in Additive Manufacturing applications. We look forward to emphasize more on such projects and customers," shares Sharma.



Rajesh Sharma, General Manager, IPG Photonics (India) Pvt Ltd at the company booth

"Our primary target audience at the show are the end users related to industries including Railway Coach manufacturing, Sheet Metal industry, Defense, and Automobile where fiber lasers have found unparalleled importance."

Rajesh Sharma
General Manager
IPG Photonics (India) Pvt Ltd

PARTS CLEANING MACHINES

Ecoclean Machines Pvt Ltd
www.ecoclean-group.in
Hall 3A, Booth A-128

Green Cleaning

Ecoclean's Minio 85C fulfilled a customer's requirement for a compact, cost-effective, hydrocarbon machine that eliminated the use of trichloroethylene.

The customer is a leader in the Indian auto components industry. The company provides the widest range of Ride Control Products in India including shock absorbers, struts, and front forks catering to passenger cars, utility vehicles, commercial vehicles and two wheelers. Cleaning is highly critical in the manufacturing process of shock absorbers. Dust or oil contamination on the parts results in improper performance of the parts. The customer, therefore, demanded an alternative to its existing

Trichloroethylene (TCE)-based machine with a smaller footprint and better cleaning results.

Challenge

The customer's range of products includes internal valving components. The major reason for the failure in valve systems is due to improper cleaning of parts before assembly. Its requirements included:

- Cleaning of sintered metals which are porous in structure.
- Replacement of TCE in the new machine.

- Cleaning of contamination in the form of oil and dust.
- Stringent cleanliness level not exceeding 100 microns was needed and no contamination more than 0.1mg.
- 100 percent dry parts to avoid damping of the parts.
- Smaller footprint of the existing machine.

Solution

Ecoclean's Minio 85C fulfilled customers' requirement for a compact, cost-effective, hydrocarbon machine that eliminated the use of trichloroethylene. Minio 85C - hydrocarbon machine is not only an environment-friendly solution, but also has a very high built-in quality to meet the safety norms for the customer.

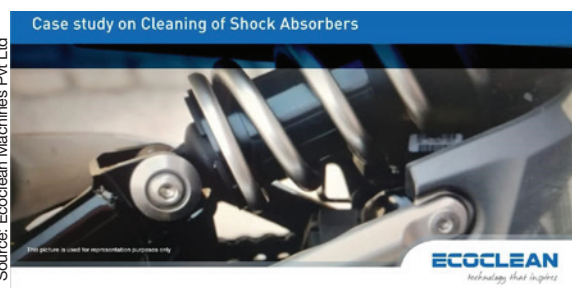
Features of Minio 85C

- Compact modular design

- Efficient high-power injection flood wash, two flood tanks and filters contained in the basic system
- Redundant safety equipment
- Use of vacuum technology during cleaning, drying, distillation
- Cleaning above flash point
- Double full stream filtration
- Eight cleaning programs
- Inert gas welded pipelines.

Benefits

- Increased productivity by replacing old machines (complex handling mechanism) by one single machine; reduced material rejection due to consistent cleaning results; reduced maintenance and higher uptime (~ 95%); no need to change cleaning media due to excellent regeneration system (online distillation); electrical energy conservation by heat recovery; and less energy consumption (< 9 kWh)
- Compliance with environmental health and safety norms; use of hydrocarbons as cleaning media is less harmful to humans and the environment
- Reduced operating cost as compared to previous TCE-based machine.



Challenge:

Ecoclean's customer, an Indian auto components manufacturer demanded an alternative to its existing TCE-based machine, It needed one with a smaller footprint one and better cleaning results.

Solution:

Ecoclean's Minio 85C is a compact, cost-effective, hydrocarbon machine that eliminated the use of TCE and offered immense benefits.

METAL WORKING MACHINERY

Amada (India) Pvt Ltd
www.amadaindia.co.in
Hall 4, Booth B-111

Providing Power to Customers

Amada India has come up with solutions that can support its customers to cope with the recent slowdown. Check out its attempts...

“Being the largest machinery show in India, IMTEX is the best platform to introduce the latest technologies. Specially after the show has been split into Metal Cutting and Metal Forming, the customer experience has vastly improved. All praises to the IMTMA functionaries to aggressively raise awareness regarding the show,” says Niraj Seth, President, Amada (India) Pvt Ltd.

Amada has been pioneering in factory digitization specially for sheet metal fabrication. The company launched its IoT-based software almost 15 years back and now IoT equipped machinery, process and software are part of its line-up.

Projecting the best

At IMTEX FORMING 2020 & Tooltech 2020, it is projecting a solution-based approach.

“We have sold more than 115 fiber laser machines and more than 15 percent customers have repeated machines. To support our customers and thank them for their patronage, we are displaying 2 new Fiber Laser cutting machines at this IMTEX,” he shares.

The high-power 9KW flagship model, the ENSIS AJ with cutting-edge technology - The new Auto Collimation system provides unrivalled beam spot control linked with Amada’s unique variable beam control technology. This allows single lens processing with high-speed piercing, faster cutting speed and highly improved taper on thicker materials. ENSIS 9KW increases processing capabilities drastically. It can pierce 25mm mild steel in less than 1 sec.

3kW fiber laser cutting machine LCG3015AJII for start-ups and mid-thick users - This newly launched product is the most practical of the company’s products. “Both the machines carry all basic specs needed for efficient production. The new software product not only connects the machinery, but also the entire manufacturing process,” adds Seth.

“Visitors can experience not just the machine, but a total process solution, including software that connects the entire manufacturing process. We are also giving them a glimpse of the latest trends in automation that are used globally. Through this, customers can choose between cell or line-based approach.”

Niraj Seth
President
Amada (India) Pvt Ltd

Catering to a wide customer base Seth believes that every slowdown gives an opportunity to reorganize ourselves with new technology and improved skill to support customers and their business.

Promising sectors

Seth informs, “Infrastructure sector is showing upward signs. Construction machinery, Elevator & Escalator, and Railways will be our main target audience at the show. Apart from this, Agricultural equipment, Retail furniture, and Clean Rooms are also showing better prospects even in this scenario.”



Niraj Seth, President, Amada (India) Pvt Ltd. at the company booth

Source: Magic Wand Media

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MANUFACTURING QUIZ

Quizzing it Away

IMTMA organised a quiz session with the aim to help students gauge their knowledge and motivate them to equip themselves with what they lack.

The inter-college quiz contest on manufacturing technologies for mechanical engineering students, held yesterday in conjunction with IMTEX FORMING 2020 & Tooltech 2020, aimed towards enlightening students with the manufacturing knowledge in the company of industry experts. The initiative can help them become aware of the emerging technologies, trends and markets, and eventually sharpen their careers. The Special Guest of Honour and Subject Domain Master, P Subramanya and Quiz Master, P Kishore looked after the proceedings of the event. With eight colleges participating, the event comprised of three riveting rounds. The first round had all eight teams participate out of which four teams contested for the second round. The third and final round was a pressurizing buzzer round which had three teams competing. KLS Gotge Institute of Technology, Belagavi emerged as the winner, with Nmam Institute of Technology, Udupi, as the runner up.



Source: Magic Wand Media

CAD/CAM

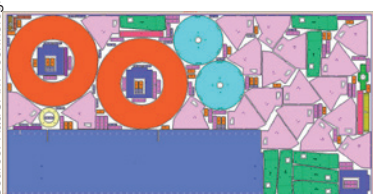
RadCAM Technologies Pvt Ltd
www.Radcamtechnologies.com
Hall 4, Booth C-116

Sheet Metal Software from RadCAM

Metalix supports a wide range of machines and has a powerful solution for porting parts from one technology or machine type to another, such as punch to laser.

Metalix is a high-performance CAD/CAM Package to make Sheet Metal Design accurate and simple with manufacturing process in mind. It understands Sheet Metal manufacturing requirements including typical issues such as bend allowance and corner relief. The software can be integrated with the design environment from where one can directly export one's design to manufacturing environment with a click of a button using CADLINK. Metalix supports a wide range of machines and has a powerful solution for porting parts from one technology or machine type to another, such as punch to laser. AutoNest Pro module processes the parts with multiple thickness and materials in one click. It also ensures that sheets are processed with maximum utilization and less

tool changes. It supports minimizing the number of NC Programs/Subnests. The users can customize the nest and work order reports according to their requirements. The report can be exported in xml format to integrate the software with ERP system. Metalix also provides an advanced platform for estimation of production times and costs to assist when preparing quotes. It supports graphic simulation of any CNC program, including legacy programs previously written on the machine. The simulation enables easy editing of CNC programs, while graphically viewing the result on the processed sheet. Advanced post processor generates efficient programs including sub-routines (macros), optimizes tool path, with the support of machine operations like oiling, vacuum, and ram-rate. With Mbend, users can do offline programming for press brakes to minimize machine downtime. It enables offline generation of bend sequences and tooling setups with dynamic 3D simulation for checking collisions.



Source: RadCAM Technologies Pvt Ltd



Source: Magic Wand Media

DELEGATE'S PERSPECTIVE

“The exhibition has been wonderful so far. The different pavilions help categorize the booths we want to visit. The exhibitors, with their expertise, are entertaining us with all our queries. They discussed our current requirements of adopting advanced technologies such as Industry 4.0 and IoT in our factories. The machines displayed at the show are high quality and cost-effective too. We were in search of such machines. Having found them, we will be continuing our interaction with the vendors.

We are specifically interested in additive manufacturing machinery. Since we cannot simply discard old components, we are trying to find a way to retrieve or reconstruct them if there is a chance. This would save us material cost and time.

Reverse engineering possibilities of components have also appealed to us along with modern manufacturing software capabilities.”

C S Vishwakarma
Ordnance Factory Board

WORKHOLDING SOLUTIONS

Güthle Pressenspannen GmbH
www.guethle-swt.de
Hall 3A, Booth B-125

ROLLBLOC Hydraulic Clamps

The ROLLBLOC product range includes five different hydraulic clamping systems.

Hydraulic clamps from Güthle can be used to reduce downtime wherever dies need to be changed frequently. With a defined clamping pressure, die clamping is extremely precise as all clamping elements are effective simultaneously. Integral features of such a die clamping system include complete die protection in conjunction with an effortless operation. The minimum handling requirements save considerable time.

The ROLLBLOC product range includes five different hydraulic clamping systems for the purpose of clamping dies (press table and ram). They are ROLLBLOC Hollow piston clamp, Sliding clamp, Ledge clamp, Wedge clamp, and Block clamp. A die change can be carried out particularly fast when die base plates of the same size are used for a quick die change. Special sets of hydraulic valves are used for controlling the ROLLBLOC hydraulic clamps. The hydraulic unit produces the necessary clamping pressure in an independent operating system. Hydraulic components, valve kits, hydraulic distributor plates and hose connections are used as supplementary components.



Source: Güthle Pressenspannen GmbH

LASER TECHNOLOGY

SLTL Group
www.sltl.com
Hall 4, Booth B-110

On the Right Track

The SLTL Group's successful attempt at helping the Indian Railways build stronger and safer coaches with its Laser Technology.

The railway industry is under constant pressure to innovate and deploy more premium quality train coaches in operation. The components of the rolling stock have to face the rigors of cyclic or ephemeral events, and are subject to the repeated tension created during their lifetime. Cracks and fractures can occur in components such as body, bone, axles, and ballets. Therefore, reduction in fatigue is a primary priority when building these train coaches.

As an industry leader, the SLTL Group took the initiative to help a railway coach manufacturer overcome these challenges. The team learned the flaws in the

existing manufacturing process and understood the limitations of the conventional methods of operation. With expertise in laser technology, the team conducted a series of rigorous experiments to find an appropriate solution. Through scientific research and tests, it was concluded that in the manufacturing of coaches, Laser

operations would provide a better finish and a greater strength. The company then started developing a machine which could be very fast and efficient. The idea was to deliver the same performance as that of a standard Laser Cutting Machine.

Requirements

Over the years, for the calculation of railway load, multi-body simulation has been promoted as a reliable technique. Different levels of complexity of various methods exist to control the available data. A software has been included in the technology, based on time-wave replication, the area measured on the original laboratory tire system, and test technology for a specific entertainment. The following demands had to be met:

- The growing demands of train coaches need faster production techniques.
- The overall aesthetics of the wagons should be intact.
- Customized laser cutting machine for long cutting operations.
- The machine should be fully automated to reduce manpower and cost of operation.
- Improved time efficiency in the existing manufacturing infrastructure.

Solution

A laser cutting system for side and top panels of the train coach: As a result of the strong research and development, the team was able to put together the highest level of complexity in a machine, a staggering 24m long with a 22m cutting bed size. The machine is made flexible to easily accommodate the metal sheet on the bed. With the excellent use of engineering, the machine is rightly balanced to absorb the vibrations. It is equipped to carry laser cutting operations on a 22m metal sheet on a single command. Thus, lowering operating costs and eliminating multiple operations. Following are its features:

- **Robust Structure:** To deliver the 22m cutting bed size and neutralize vibrations, the machine structure is solid and robust;
- **X-Y Axis Movement:** The displacement of the laser head is very quick to travel along the axes to access the cutting points;
- **Laser Source Power:** The most dynamic laser power source delivers accurate power and allows flexibility to adjust the power upon the requirement;
- **Customized Intuitive Software:** The software is equally calibrated to accustom the extended size of the laser system.

Challenge:

A railway coach manufacturer was in need of a machine for faster production and quality finish.

Solution:

The SLTL Group's 22m long laser cutting system for the side and top panels of the train coach.



Source: SLTL Group

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EUROMAC
punching & bending machines

INTERNATIONAL VIEWPOINT

The Association For Manufacturing Technology (AMT)
www.amtonline.org
Hall 3A, Booth B-101

Reshaping the Future with Technology

Douglas Woods, President, AMT, says that IMTEX FORMING will never outlive its utility. Because new technologies keep coming up

The Association for Manufacturing Technology (AMT) has gently encouraged the US companies to make its presence known far and wide. Douglas Woods believes that since India's machine tool consumption have grown by as much as 115 percent since 2015, it's only right that companies participate to showcase their best. "IMTEX FORMING has played an important role in bringing

a great mix of domestic and foreign technologies – basic as well as transformative ones. More than a dozen AMT members have booths at the show, while other members are being represented through their Indian, Asian, and European operations," he adds.

Growing faster

For AMT, the key why IMTEX FORMING has been a highly successful platform is its

dedication to keep its attendees abreast of the latest forming technologies. The creation of two new pavilions for Additive Manufacturing and Factory of the Future (Industry 4.0), proves transformative technologies brought in by a digital age. Woods is aware that the metal forming sector has seen a series of technology adoption as the concept of smart manufacturing continues to grow. These technologies include machine monitoring, data analytics, and physical automation. "The ecosystem for connecting machine controlled by a computer has grown so much that connecting machines to view a factory dashboard can be completed in a matter of hours. Now that devices are connected, the data to run analytics on process time and capabilities are readily available. Physical automation with single-arm robots has seen further adoption by the forming industry," says Woods.

“IMTEX FORMING has played an important role in bringing a great mix of domestic and foreign technologies – basic as well as transformative ones. More than a dozen AMT members have booths here, while other members are being represented through their Indian, Asian, and European operations.”

**Douglas Woods
President
AMT**

Moreover, there are several technologies available to further enhance processes and reduce set-ups such as robotics and visual work instructions. "The capabilities of robotics have grown from material tending to collaborative robots with human interactions and automated inspections through vision systems. Robotics can be used in set-up reduction to automate die changes, and vision systems can be used for set-up verification and final part inspections. These technologies not only streamline the process, but also enhance the robustness of manufacturing lines," he adds. Visual work instructions provide the user with just the right amount of information required for a given operation. With increasing acceptance of augmented reality glasses, companies are shifting to this technology to provide the user with the information needed.



Source: Magic Wand Media

KNOWLEDGE SHARING

Awakening the Youth

IMTMA Youth Programme- Jagruti - is an initiative to create awareness among the budding engineers about the latest technologies and trends in in the manufacturing industry. This program was held during the IMTEX FORMING exhibition with the help of UDAAN members. Students from engineering institutes were shortlisted to attend the programme. Being keen at imparting them the knowledge they could apply in the real-life setting, IMTMA took charge of the program outline and also their expenses.



Source: Magic Wand Media

**13th "JAGRUTI - IMTMA Youth Programme"
24 - 25 January 2020 - BIEC**

NAME OF INSTITUTION	ADDRESS OF INSTITUTION	NAME OF STUDENT
Amrita School of Engineering	Kasavanahalli, Carmelaram P.O Bangalore - 560035 T: +91-080-25183700 F: +91-080-25183700 E:bn_prashanth@blr.amrita.edu	G.S Shourie Third Year - B.Tech Mechanical Mellacheruvu Prithvi Bharadwaj Third Year - B.Tech Mechanical
D.Y Patil College of Engineering, Akurdi	Sector 29, Akurdi, Pune - 411044 T: +91-20-27653058 E:svghogardare@dypcoeakurdia.ac.in	Akshay Sanjay Pawar Third Year - B.E. Mechanical Vaibhav Chandrakant Bachute Third Year - B.E. Mechanical"
Jawaharlal Nehru Engineering College, Aurangabad	MGM Campus, N6, CIDCO Aurangabad - 431003 T: +91-240-2482893 E:deniia@j nec.ac.in	Swapnil Govind Kewat Third Year - B.Tech Mechanical Raja Patel Mohammad Sufiyan Third Year - B.Tech Mechanical
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Sanjay Ghodawat University	Kolhapur - Sangli Highway, Atigre Dist Kolhapur (MH) - 416118 T: +91-230-2463713 F: +91-230-2463777 E: uday.kapale@sanjayghodawatuniversity.ac.in	Satyajeeet Uttam Manugade Third Year - B. Tech Mechanical Engineering Shrikant Shamrao Patil Third Year - B.Tech Mechanical Engineering
Indian Institute of Technology, Madras	HOD Office Mechanical Science Block I.I.T Madras Chennai 600 036 T: +91-44 -22574675 F: +91-44 - 22574675 E: nrbabu@iit.ac.in	Abhishek Garg Fourth Year - Dual Degree Mechanical Rupavath Manikanta Third Year - Dual Degree Mechanical Ayyapu Venkata Phani Gowrinath Third Year - Dual Degree Mechanical. Maneesh Dev Fourth Year - Dual Degree Mechanical
Don Bosco Institute of Technology, Bangalore	SH - 17, Kumbalgodu, Mysore Road Karnataka - 560074 E: shivannamechdbit@gmail.com	Nikshap S Fourth Year - B.E Mechanical Issac G Johnson Fourth Year - B.E Mechanical
PESITM, Shivamogga	NH 206, Sagar Road, Shivamogga - 577204 E: vinodrampur@gmail.com	Veerakumar Gouraj Fourth Year - B.E Mechanical

VISITORS' VIEWS

Source: Magic Wand Media



“I have been coming here for the past 10 years. We are a dealer of Panasonic and my job involves keeping track of the latest technologies coming to India. The show's displays are exhaustive, and I have found some relevant innovations in Metrology and Laser.”

**Shakthivel B
MD, Essen Indpro Pvt Ltd**

Source: Magic Wand Media



“It was worth travelling from Chennai to attend the IMTEX FORMING exhibition. It has been a wonderful experience so far. The exhibited spreads are elaborate. The exhibitors have the know-how and the expertise, and the fellow visitors are all serious and mean business. I plan visiting the exhibition regularly.”

**Adithya Ranjan S
Founder and Creative Director
The Colour Space**

DEBURRING SYSTEMS

Removing Side Edges Burr

Valgro India Ltd
www.brushingmachine.com
Hall 4, Booth A-132

Valgro's machines are designed to remove metal burrs from a metal sheet's external perimeters. Burr formation happens after cutting processes such as shearing, punching, etc. Deburring is required in some cases for aesthetic reasons, and in others for removing sharp edges for safety reasons.

Hand filing or hand-held angle grinders pose various challenges such as flying sparks, dust and noise at workshop, leading to non-productive time. Valgro's Single Head Semi-Automatic End Edge Deburring System eliminates all that and offer benefits such as faster and uniform deburring process. The deburring operation is carried out both sides of the sheet in a single operation. The process result is the elimination of burrs, resulting in slightly rounded edges. These

machines are designed to remove metal burrs even from the ends of pipes, tubes and profiles. Valgro machines' advantages compared to traditional deburring processes:

- It eliminates the inevitable unhealthy position demanded by traditional operations
- No vibrations, flying sparks, dust and noise
- Unskilled labor can easily run this machine
- Money and time get saved due to less downtime.



Source: Valgro India Ltd

Source: Valgro India Ltd



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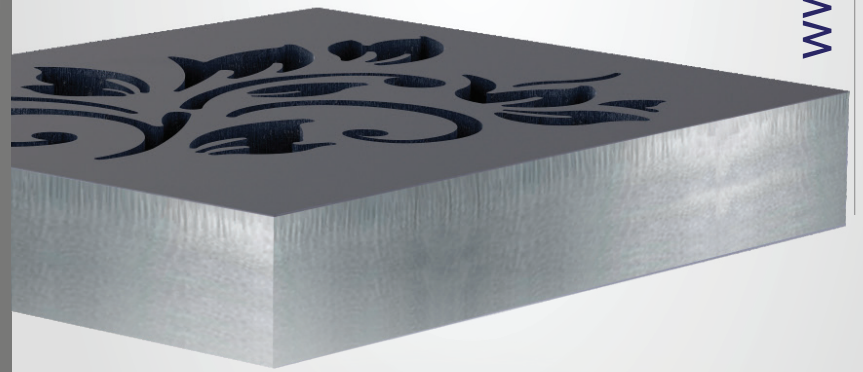
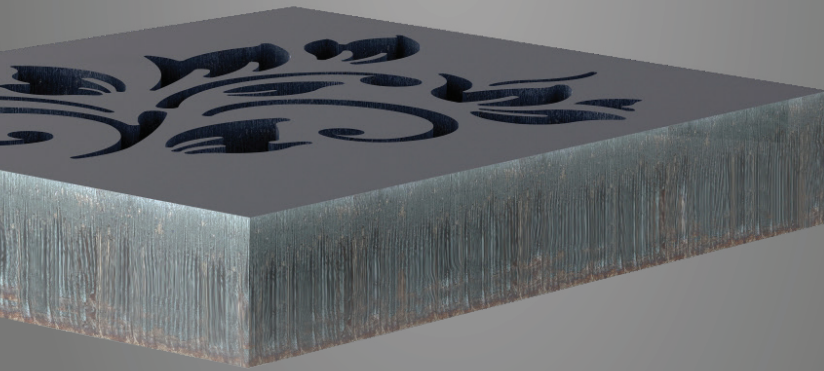




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