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Concurrent Show



International Exhibition of Dies & Moulds, Forming Tools, Machine Accessories, Metrology and CAD / CAM

Published By



Indian Machine Tool Manufacturers' Association

JANUARY 23 – 28, 2020, BANGALORE, INDIA

The official Show Daily of IMTEX FORMING 2020

Day 4 • Sunday, January 26, 2020

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X/Y Repeated Location Precision	±0.1mm
Machine Gross Power	≤1250W

It can be used for marking of translucent Plastic buttons, IC chips, Digital product Components, Precision machinery, Jewellery, Sanitary ware, Measuring and Cutting tools, Clocks and Eyeglasses, Electrical appliances, Electronic components, Hardware accessories, Hardware tools, Mobile communications components, Automobile and Motorcycle parts, Plastic products, Medical equipment, Building materials, Pipes and other High-precision products.

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Attuned to Customer Needs

Maulik Patel, Executive Director, SLTL Group, explains how his company has created new technologies just by listening to the customer...



The SLTL team with Maulik Patel, Executive Director, SLTL Group (front row, sixth from the left) at the company booth at IMTEX FORMING 2020.

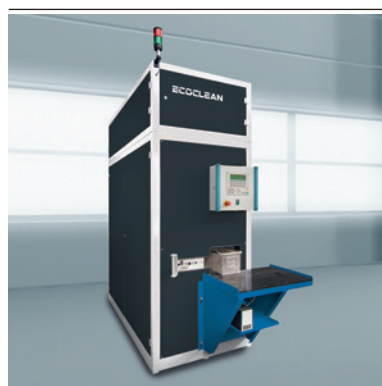
The SLTL Group is India's oldest and largest Laser Systems Manufacturing company and is known as the pioneer of Fiber Laser

Technology. "If you look at our innovation philosophy, it's always unconventional ways to overcome challenges. In 2007, when the industry was looking

for an efficient, robust and productive cutting system, the company commercialized Fiber Laser Technology for the first time in the world. It didn't just

make things better, but changed the technology for the best. We launched the world's first fiber

To be continued on 4 ➔



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“Our in-house R&D team is well equipped with expertise and resources to accomplish the complex needs of the industry. As a company, we have successfully delivered Special Purpose Machines for industries covered from shoe to satellite.”

Maulik Patel
Executive Director
SLTL Group



Maulik Patel, Executive Director, SLTL Group at the company booth

Source: Magic Wand Media

Continued from 3

laser cutting system in 2007. Today, it is the most widely used cutting technology in the industry,” says Maulik Patel, Executive Director, SLTL Group. The SLTL Group has a sensible approach to innovation. It innovates a technology that addresses the needs of the customers, irrespective of whether they realise they need it or not. Eventually, they do. “Our in-house

Research and Development team is well equipped with expertise and resources to accomplish the complex needs of the industry. As a company, we have successfully delivered Special Purpose Machines for industries covered from shoe to satellite,” adds Patel.

The company exports to more than 30 countries including North American subcontinent, the Middle East, China, Australia and Europe as well.

Laser sharp

SLTL has some announcements planned at IMTEX FORMING 2020. “We listened to our customers and innovated laser systems that address their present needs. One of them was upgrading our baseline Laser Cutting System: Prime with modern technology to provide excellent throughput. At the same time, we have kept the prices affordable. At SLTL Group, we have always been innovating to help the industry and fabricators achieve the highest standards of applications,” says Patel. Another launch is a dedicated Laser Tube Cutting System, termed T-6200. The system is a unique combination of SLTL Group’s proprietary laser technology and a robust mechanical structure designed by the in-house R&D team. The team re-imagined the whole conventional tube cutting process and developed T-6200, providing a complete solution to the complex industrial needs. This dedicated Laser Tube Cutting System is to provide extreme precision, productivity, and quality.

Patel says the company is also introducing Hertz. It is a Laser Welding System that combines the fundamental qualities of an ultra-portable device with uncompromising performance. Along with these systems, it has VECTOR: Fiber Laser Cutting System and NOVA: Multitasking Fiber Laser System at its booth. These systems are uniquely developed to address the challenges of the market.

On target

For SLTL, it’s imperative that it introduces new technology at every IMTEX expo. Justifying it, Patel says that this year, it is launching two new technologies for sheet metal cutting and dedicated tube cutting. “Being a prominent player, we receive good response and business opportunities at the expo. We are presenting our portfolio of laser systems showcasing multiple capabilities like cutting, marking, welding, tube cutting and more. Our team of experts are happy to offer productive discussions and business collaborations,” says Patel.

The SLTL Group believes in making customer relationships its priority. It’s listening to its customers that has enabled it to take steps in the right directions. “As a company, our goal is to cater to the needs of the industry with laser solutions. Our primary targets are automobile and related OEMs, electronics and devices, aerospace, defence, railways and shipbuilding, to name a few,” he says. “IMTEX FORMING 2020 & Tooltech 2020, as a show, has got good coverage from across the globe and industries. The show is a perfect ecosystem for buyers and sellers to gain healthy exposure. For us, making a big announcement here helps us to boost our reach,” he concludes with a smile.

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Fiber Laser line-up

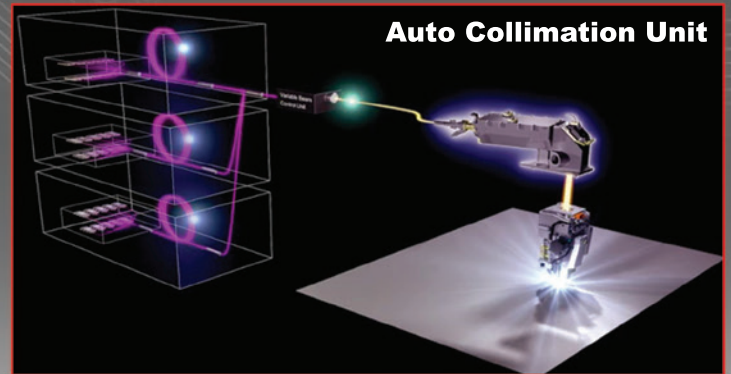


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“I extend my Republic Day greetings to all exhibitors and visitors at IMTEX FORMING 2020 & Tooltech 2020. I wish them all the very best from the show.”

Jamshyd N Godrej
Chairman - Exhibitions
IMTMA



“IMTEX FORMING is Asia's leading show on metal forming and we are happy to state that the show is featuring many technologies for the manufacturing industry. I extend my warm wishes to all exhibitors and visitors at IMTEX FORMING 2020 & Tooltech 2020.”

Indradev Babu
President
IMTMA



“On behalf of IMTMA, I wish everyone a very happy Republic Day. The visitor turnout for this exhibition undoubtedly shows that IMTEX continues to be the market leader in propelling business growth for the machine tool industry in India even in tough market situations and general slowdown in economy.”

V Anbu
Director General & CEO
IMTMA

MEASUREMENT TECHNOLOGY

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www.beckhoff.com/elm314x
Hall 3A, Booth A-121

ELM314x Measurement Modules

System-integrated and inexpensive precision measurement technology for highly efficient machines and test benches from Beckhoff.

The new ELM314x economy line of the EtherCAT measurement modules supplements the established ELM3x0x line with a lower cost 1 ksp/s class. This simplifies the use of the system-integrated precision measurement technology, which taps significant optimisation and efficiency potentials both in production machines and in inline test benches.

The new ELM314x measurement modules are available in 2, 4, 6 and 8-channel versions. High-precision measurements with an accuracy of 100 ppm are possible – and in a wide temperature range from 10 to 40°C at that. Each channel of the measurement modules can be set to current or voltage measurements with a sampling rate of up to 1 ksp/s per channel.

adjustable two-stage filters, over-sampling, distributed clocks, true RMS and scaler functions. The extensive diagnostic features for unattended, long-term use familiar from the ELM3x0x line are also implemented.

Wide range of applications for 1 ksp/s measurements

Sampling at 1 ksp/s per channel is suitable for a wide range of applications. In particular, the processes of moving machine components or final inspection in inline test benches can be optimally mapped with the economy line in order to reliably control the processes. Typical examples include part geometry measurement on the fly, as well as fast, but highly precise weighing procedures,

e.g. in bottling plants. In general, the ELM314x EtherCAT measurement modules are ideal for recording data from 10 V/20 mA sensors and for feeding real-time information directly back into the process. The speed, reliability and accuracy of production and test processes can be increased significantly with these insights. Efficient data logging for subsequent process analysis and optimization is also just as easy. If increased requirements necessitate higher sampling rates, the ELM3x0x measurement modules with up to 50 ksp/s can be used instead. These are suitable, for example, for vibration measurement on fast-running machines in order to implement active vibration compensation or predictive maintenance.

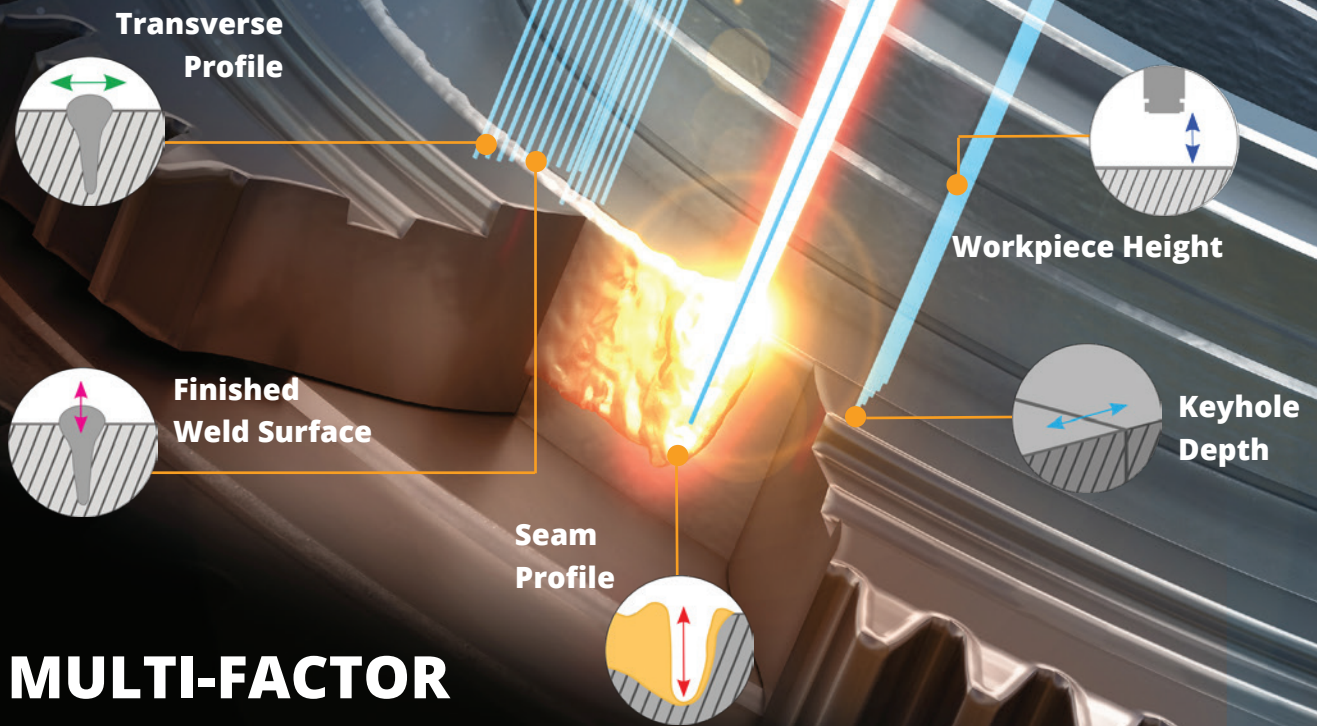


The inexpensive ELM314x economy line of measurement modules with 1 ksp/s expands the possible range of high-end measurement applications.

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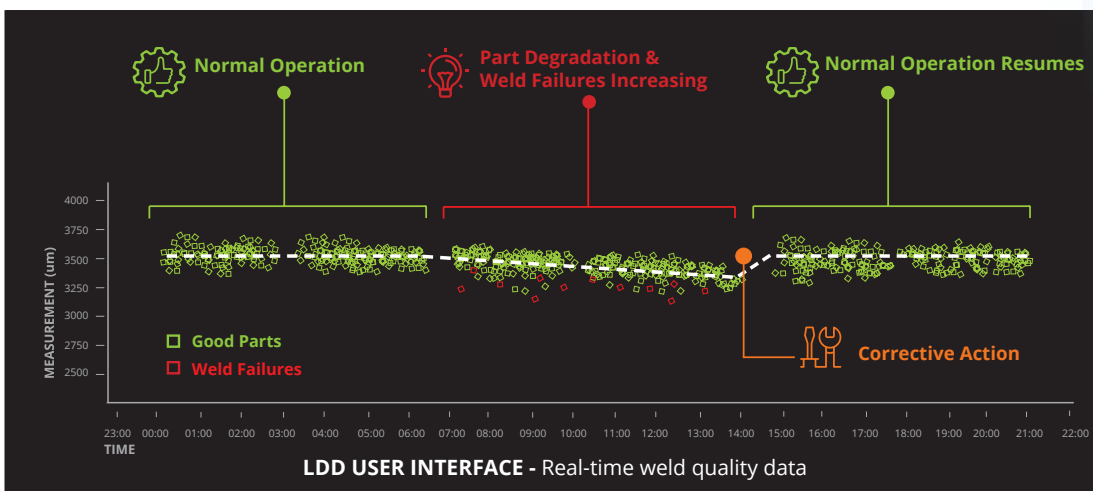
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AMPCO METAL deems IMTEX FORMING a medium which can be highly useful for engaging with existing customer and making itself known to potential ones. Here's knowing its high-performance alloy products which are the focus in this edition of the show...

AMPCO METAL India Pvt Ltd
www.ampcometal.com
Hall 3A, Booth L-103

and Titanium; and AMPCOLOY® Mylars-Anti spatter materials.

Leveraging IMTEX

"IMTEX FORMING is a medium which is highly useful for customer engagement and face to face interaction. It helps us enhance our brand value, take our public relations to the next level, attract new customers and strengthen the loyalty of existing customers. It assists us in understanding our customers' issues and offering them the best solutions with our AMPCO® & AMPCOLOY® high-performance alloys," says Tushar Pawar, National Head, AMPCO METAL India Pvt Ltd.

Staying abreast

With the manufacturing world marching towards the adoption of Industry 4.0, AMPCO METAL also wants to gain insight into the latest in advanced technologies in the metal forming industry. "IMTEX FORMING attracts people across India looking for solutions. We mainly focus on the audience looking for solutions in metal forming and bending of tubes. We want to capitalize on this opportunity by interacting

"We mainly focus on the audience looking for solutions in metal forming and bending of tubes. We want to capitalize on this opportunity by interacting with interested visitors and helping them with the best solutions."

Tushar Pawar
National Head
AMPCO METAL India Pvt Ltd

with interested visitors and helping them with the best solutions," shares Pawar.

Target industry sectors

Due to technological advancements in manufacturing, forming industry, tube processing industry, stainless steel and titanium tube manufacturers and deep drawing component manufacturers are promising sectors for the company's AMPCO® and AMPCOLOY® high-performance alloy products. "As stainless steel and titanium have growing use in today's applications in manufacturing, we believe that our highly efficient metal forming and tube bending tools will be well accepted in India," Pawar concludes.



Source: Magic Wand Media

AMPCO METAL is a well-known name in the industry today, offering a highly comprehensive range of high-performance aluminum bronzes and copper alloys for tube bending, deep drawing, rolling and forming applications. The company at IMTEX FORMING 2020 & Tooltech 2020 is focusing on two products – AMPCO® Bending toolings - Tube bending toolings for Stainless Steel

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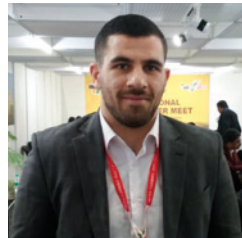
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INTERNATIONAL BUYER-SELLER MEET



"I have come here for the first time and find the expo interesting. Indian companies have started producing excellent machinery. Most manufacturers that I have met are highly skilled and experienced. They produce high-quality machines in every quantity. When the global economy, on the whole, is going through a tough phase, the Indian manufacturers are in a position to supply machines at highly competitive rates. I am in talks with a few Indian machine tools manufacturers to procure their machines, having liked their quality and price."

Thomas Shamoun
Business Developer
Ratmo
France



"We are going in for an expansion and, hence, wanted to explore new technologies for metal forming at IMTEX FORMING 2020. The CNC machines, Laser cutting machines, Plasma machines displayed here at the exhibition are highly promising. We want some Indian manufacturers to set up their plants in our country and have reached out to some. We plan to some back during the expo to further our discussions with them. The RBSM platform has been highly useful for us in meeting so many Indian manufacturers all at one place."

Lee Gaitu
Managing Director
Electechnique
Nairobi, Kenya



"I had heard a lot about Indian machine tools and wanted to come here to closely explore them. I am into supplying machinery to the domestic market as well as other neighbouring countries too. The expo is an amazing opportunity to witness so many machines and their manufacturers under the same roof. I wish to supply some Indian machinery to Uzbekistan, Turkey and a part of Russia where I work. Once I am confident of these machines, I may call some manufacturers to set up a machine tool manufacturing plant in our country."

Akbar Kadirov
MD
Akela Group
Uzbekistan



"We deal in machine tools and accessories. There are four subsidiary companies under the parent company, and each deals with a particular type of machinery. We have come to attend IMTEX FORMING and other machine tool exhibitions in India to explore what the country has to offer us. RBSM has turned out to be what we expected it to be. We have already met with several Indian manufacturers and are in talks with them to plan further."

(L-R): Ekaterina and Yevgeniy Grover
International Ltd, Russia

Source: Magic Wand Media

SONGU
HIGH POWER FIBER LASER

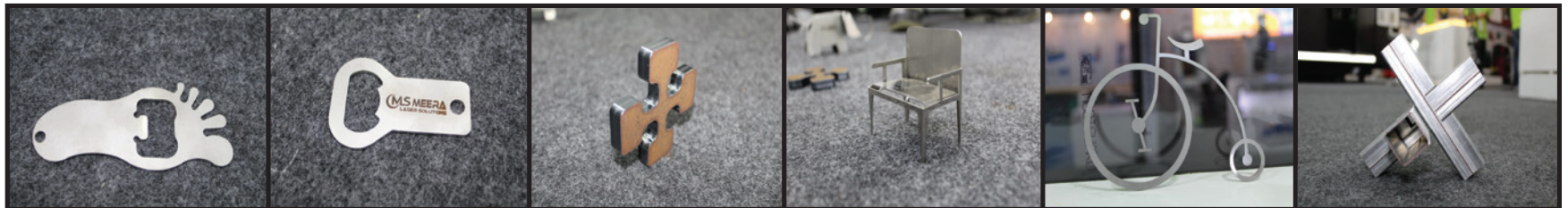
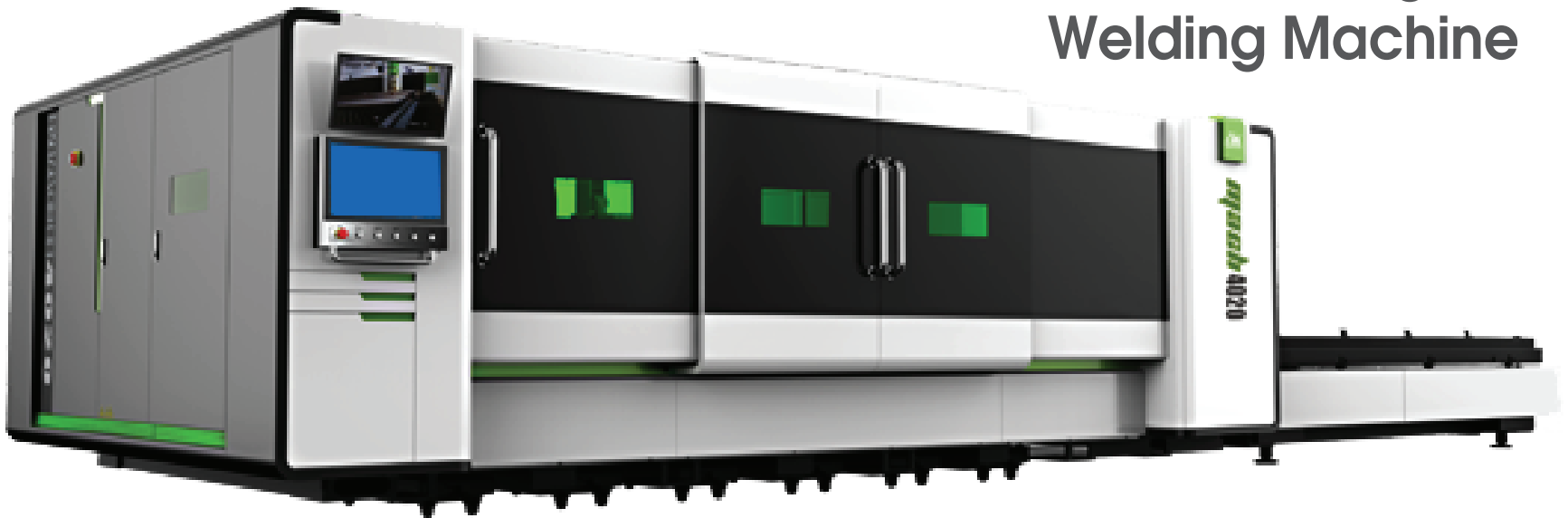


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PRECISION WORKHOLDING DEVICES

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www.trumpf.com
Hall 4, Booth 101

Together to Win

Playing the perfect partner in mutual growth, TRUMPF (India) has displayed Forms and Gears' smarter welding jigs at its booth.

TRUMPF is the world leader for sheet metal machinery and lasers. The company has partnered with several other Indian integrators to facilitate its growth in the country. Forms and Gears, the country's oldest and largest fixture building company, is one of TRUMPF Laser integration partners. TRUMPF has displayed, at its booth at IMTEX FORMING 2020, Forms and Gears' Virtual Reality

Laser SPMs for Railways Bogie Welding and Laser Hardening SPMs. In addition to doing laser integration with TRUMPF, Forms and Gears also specialize in welding jigs, which are the backbone of any body/sheet metal shop of an auto plant.

Forms and Gears has now come up with a revolutionary new Industry 4.0 product called Smartfix 4.0 that can be installed even on existing Welding Jigs, making them smarter, more intelligent and with the ability to communicate with the end user on a mobile platform.

Smart Laser Welding

Smartfix 4.0 is a Precision Workholding Device with the ability to collect, transmit and analyze data in a useful format for the end-user. Developed for the first time in the world, it takes workholding

devices and fixtures into the digital and cyber space.

Data from the sensors is continuously sent to the cloud wirelessly where it is parsed and stored for analysis. The raw data is then analysed using Data Analytics and Artificial Intelligence tools and sent back to a custom-built Dashboard of the end user, which resembles their factory floor, showing the entire layout in action as well as a quick summary of the critical parameters of each welding jig.

Useful data like the number of components produced per jig per day, operator efficiency analytics, the number of cycles the jig has run, preventive maintenance schedules, cost per component analytics, consumable analytics etc. are sent to the end user's computers on their mobiles.

Partners in innovation

Smartfix has been jointly developed by ASM, a publicly-

listed company specialising in Engineering Design and Engineering related Artificial Intelligence, Machine Learning and Analytics, and Forms and Gears, one of the pioneers of Fixture building in the country.

Reji Varghese, Managing Director, Forms and Gears, says, "ASM's strengths in electronics, AI and Analytics and our 47 years of Fixture building experience helped us in developing this product. Smartfix 4.0 is the easiest and most cost-effective way to make the whole body shop / sheet metal shop Industry 4.0 enabled. We believe this product can improve productivity, improve quality, reduce rejections and reduce downtime."

Forms and Gears has now forayed into the design and manufacture of Laser Integration using TRUMPF Laser source for Welding, Cutting and Hardening Special Machines.



(L-R): Pradeep Patil, MD, TRUMPF (India); and Reji Varghese, MD, Forms and Gears at the TRUMPF booth

PLANET MATTERS

Making Indian Exhibitions Green



With the aim to promote sustainable lifecycle practices in exhibitions that balance quality, environment and economics with compliance to health and safety obligations, IMTMA, since IMTEX CUTTING 2019, has constituted the ECO DESIGN AWARD.

Green Initiatives

The attempt is towards encouraging exhibitors to use eco-friendly materials in building stalls at exhibitions and reducing waste. The concept has been well appreciated by the participants and has brought in a paradigm shift in the thought process of the exhibitors, stall designers and the industry fraternity.

Acknowledgement

The efforts have continued this edition of IMTEX FORMING with the deserving getting conferred with the ECO DESIGN AWARD 2020.



Eco Design Award Winners

Eco Design Awardee

TOOLTECH / IMTEX	Company Name	Hall No	Stall No	Alloted Space	Jury Decision
IMTEX	Neumatica Technologies Pvt. Ltd	2A	B108	32	Top Performer
IMTEX	Light Mechanics	4	C110	36	Commitment to Excel
TOOLTECH	Ampco Metal India Pvt. Ltd	3A	L103	30	Top Performer
TOOLTECH	Givi Misure Pvt. Ltd	3A	K101	30	Commendation for Achievement
TOOLTECH	Ortlinghaus Drive Technology India Pvt. Ltd	3A	M103	30	Commendation for Achievement
IMTEX	Carl Zeiss India (Bangalore) Pvt. Ltd	3A	A126	75	Top Performer
IMTEX	Balluff Automation India Pvt. Ltd	3A	A122	56	Commendation for Achievement
TOOLTECH	Mitutoyo South Asia Pvt. Ltd	3A	A134	60	Commendation for Achievement
IMTEX	ETA Technology Pvt. Ltd.	2A	A112	130	Top Performer
IMTEX	Salvagnini Machinery India Pvt. Ltd	4	C101	182	Top Performer
IMTEX	Yangli Group Corporation Ltd	4	A125	121	Commitment to Excel
IMTEX	Amada (India) P. Ltd	4	B111	450	Top Performer
IMTEX	Messer Cutting Systems India Pvt. Ltd	2A	A110	324	Commendation for Achievement
IMTEX	Trumpf (India) Pvt. Ltd	4	B101	408	Commendation for Achievement

Source: IMTMA

OPTICAL SYSTEMS AND OPTO-ELECTRONICS

Carl Zeiss has Solid Plans for India

The top brass of the company reveals their future plans at a time when the country's automotive industry is passing through a challenging phase.

Globally well known for its optical systems and opto-electronics, Carl Zeiss has been providing solutions to the automotive industry across the globe. With the Indian automotive industry undergoing a major change with IC engines being replaced by electric motors, ZEISS' presence at IMTEX FORMING 2020 assures that the company must have plans up its sleeves to aid its Indian customers succeed in this transition phase. "It will not be an exaggeration if I say that globally we are the leading

provider for quality improvement of the automotive industry. Therefore, it is our responsibility to see that our solutions continue to boost the productivity of our automotive customers," says Dr Jochen Peter, Member of the Executive Board, Carl Zeiss AG and President & CEO, Carl Zeiss Industrielle Messtechnik GmbH. The company has introduced new technologies for electric vehicle (EV) manufacturing, which it has already deployed elsewhere. This is the first time that it is showcasing its AI - Max solution

at the show. "This is an optical inspection system that is specifically tailored for car body inspection. Including EV it will tremendously increase the productivity of the car body production," he informs. The company is also introducing the microscopy technology that is specifically targeted for the battery industry.

Towards increasing productivity

Productivity being the differentiator for ZEISS' customers, it is working rigorously to improve the productivity of its customers in India. "We are well equipped to support our Indian customers. In the automotive industry, productivity can be enhanced through introduction of optical inspection systems. Data management is another key area in this regard," states Roger Bayer, Vice President, Sales APAC, Industrial Quality

Carl Zeiss India (Bangalore) Pvt Ltd
ZEISS Group
<http://www.zeiss.co.in/metrology>
Hall 3A, Booth A-126 (German Pavilion)

Solutions Division, Carl Zeiss Industrielle Messtechnik GmbH.

Helping raise quality standards

According to Wilson Thomas, Managing Director, Carl Zeiss India (Bangalore) Pvt Ltd, the company is thriving in India. "We are quite upbeat about India. Export is a very focused area for us here. Half of our products go out of India to at least 15 other countries including Brazil, Mexico, Korea, Turkey, South-East Asia, Russia. We also enable small Indian companies to export their products."

Ravikumar Sirige, Divisional Manager, Industrial Quality Solutions, Carl Zeiss India (Bangalore) Pvt Ltd, says, "We are not only supplying a product, but we are focusing on offering a complete system. You may call this a solution-based approach. Our aim is to be a complete solution provider; this is our USP."



Top brass from Carl Zeiss at the company booth at IMTEX FORMING 2020



The best way to predict the future of bending is to invent it



Visit our stand at the IMTEX 23 - 28 January 2020 Hall 4 - Booth C138



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PARTS CLEANING MACHINES

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

Clean it Like a Pro

Ecoclean continuous endeavour has been to bring the latest and innovative technologies to the Indian market. The launch of its hydrocarbon-based cleaning machine, Minio 85C and the Particle Scanner at IMTEX FORMING 2020 is part of that.

“For many years, IMTEX has been a pivotal exhibition platform in India for all the machine tool manufacturers. IMTEX and the concurrent events are major attractions every edition for the Indian machine tool industry. Visitors to these events are learned, focused and always looking for smart and innovative solutions, this is a big motivating factor for the exhibitors to bring their latest technologies to the event,” says Manoj Velhal, AGM – Sales, Ecoclean Machines Pvt Ltd. According to him, each edition of the show further strengthens the Ecoclean brand in India, creates new opportunities for the company

to bring its state-of-the-art cleaning technologies to the Indian market and extend its network. To this end, the company has a unique booth design at IMTEX FORMING 2020 in line with Ecoclean philosophy. “Most importantly our experts from the sales and application team are present from all the regions to interact and provide solutions on component cleanliness and its analysis,” he informs.

On the showcase

As part of the SBS Ecoclean group, it is the company’s continuous endeavor to bring the latest

and innovative technologies to the Indian market. In this edition of IMTEX 2020 & Tooltech 2020, it is showcasing its ‘Made in India’ hydrocarbon-based cleaning machine ‘Minio 85C’. This is one of its several offerings and is more suitable for cleaning of formed components with excellent oil removal efficiency. Furthermore, with menial space, it offers advantages like consistent quality, high uptime and lowest cost per unit for cleaning components.

“Along with increasing cleanliness quality requirements in the industry, there is a growing need for reliable and fast ‘Technical Cleanliness’ analysis equipment in the industry. Looking at this demand, we are launching ‘Particle Scanner’ here at the show,” informs Velhal. The scanner is a robust and maintenance-free method of analyzing cleaned components for particle sizes and distribution. Moreover, it gives accurate particle count and analysis of a component’s cleanliness in the shortest possible time. “Where normal light microscope takes between 35 to 40 minutes to analyze the filter paper, the Micro-Quick particle scanner can do it in less than 2.5 minutes. This scanner is already specified as a standard for particle analysis in cleanliness testing in the VDA-19.1 directive. The new ISO-16232 published in late 2018 recognizes the power of the MicroQuick scanner as well,” he shares. The application team is conducting live demonstration of the working of the Particle Scanner to showcase its advantages.

“Each edition of the show further strengthens the Ecoclean brand in India, creating new opportunities for us to bring our state-of-the-art cleaning technologies to the Indian market and extend our network.”

Manoj Velhal
AGM - Sales
Ecoclean Machines Pvt Ltd

Primary target audience

Traditionally, automotive OEMs and their suppliers with critical component cleanliness requirements have been the key industry sectors for Ecoclean in India. “Over the last couple of years, we have delivered to this sector many significant projects for stringent cleanliness quality demands necessitated by new emission norms (BSVI) and e-mobility components,” shares Velhal.

As a worldwide market and technology leader, Ecoclean is present in Germany, Switzerland, France, Czech Republic, the US, Mexico, Brazil, India and China. As Ecoclean India, the company is equipped with a Technology Center and a Factory located at Pune that allow its potential customers to witness precise cleaning experience for their parts.

“For us, industry sectors like Aeronautics, E-mobility, Medical instruments & implants, Power electronics, and Additive Manufacturing have a great potential in the Indian market. Ecoclean India, with the support of its global innovation centre in Germany is well positioned to serve component cleanliness requirements of these upcoming sectors,” he adds.

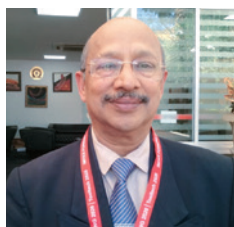


Manoj Velhal, AGM - Sales, Ecoclean Machines Pvt Ltd (first from left) along with the team at the company’s booth

DELEGATE'S PERSPECTIVE

Increasing Productivity

“I have been coming to IMTEX for the last 10 years, and this time I have my officers also joining me from various factories and the corporate office. We have been through all the halls and explored the variety of machines displayed. We have seen their live demos and discussed with the vendors. The machines have the potential to enhance the manufacturing processes. We will be continuing our talks with them to zero in on the solutions that will suit our needs and challenges. We see a wide range of technologies here but customizing them to our specifics in order to help us increase our productivity is important.”



AK Agarwal, IOFS
Senior Deputy Director General
Ordnance Factory Board

MSME CORNER

“It’s been an amazing experience at IMTEX FORMING 2020 to say the least. We have received great response so far and received many enquiries. We look forward to converting them into business soon. As an MSME, whenever we participate in a show, we expect that the stall allotment should be at a prominent location. Each hall should host the same kind of machinery, so that the customers can see all of them conveniently and compare easily to make buying decision. The show has paid heed to that need of ours.”

Kunwar Lamba
Owner
Lamba Press and Shears



“It’s been one year that the MSME market has gone down as the Indian automobile sector is seeing a slow growth. But MSMEs being the backbone of the Indian manufacturing sector are slated for a better future. We have already started receiving the government support like MSME export benefit, tax benefit, additional cost cutting etc. since we cannot afford our own R&D. If the government provides us a little more support for our R&D, it will provide the much-needed boost for us. IMTEX FORMING 2020 has improved by all means than the previous edition. The visitors are equally serious and mean business.”

Krishna Kant Roy
Global Marketing Manager
Fenwick And Ravi



PRECISION BRUSHING MACHINES

Valgro's Rotary Deburring and Edge Rounding Machines

The machines are complete solutions for sheet metal finishing and deburring edges.

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

The Rotary Deburring and Edge Rounding Machines from Valgro are used for deburring flat components such as punched, fine blanked parts as well as preci-

sion automotive components such as Piston Rings, Compressors and Clutch/Brake parts. The machine has 6 counter rotating disc brushing heads. It is capable of breaking sharp edges and creating random finish on metal pieces. The easy-to-operate control panel allows one to adjust the speed direction and height of the rotating disc heads and the conveyor speed all with the touch of a button. The vacuum belt and magnate bed are designed to hold down parts as small as one-inch square.

A versatile machine

This is an automatic feed-tough machine with a belt. The machine deburrs and sands a radius to the sharp edge on cut out parts. This machine is made for uniform sanding on all edges, leaving a fine scratch pattern on the surface. The sanding scratch is fine enough, so that protective plastic on stainless steel is not damaged and only the edges get rounded. Fully automated deburring of all edges in one pass on laser cut or stamped parts is achievable with these machines. The Valgro Rotary Vacuum consists of multi disc heads. The heads spin around to create the edge radius on metal parts. The special

conveyor belt is made for sanding very thin parts. Sanding into the conveyor belt is possible without damaging the belt. The Valgro Rotary series comes with a built-in vacuum hold down system that easily holds parts as small as 4 in. x 4 in. making the machine versatile. The machine works with steel, stainless steel, aluminum and many other types of metal.

The machines are equipped with 1 or 2 abrasive belt heads which can be combined with a top double cross belt and a brush unit. The inside and outside contours of stainless steel, steel and aluminum parts cut by thermal processes can be burr cleaned from the total surface. Planetary Deburring Machines use planetary head which accommodates independent rotating brush heads in it. The individual rotation of brush heads along with rotation of complete head results in burr removal from every corner of the profile.



Source: Valgro India Ltd

KNOWLEDGE SHARING



Live Demonstration on Industry 4.0 at Technology Centre at BIEC

Source: Magic Wand Media

Industry 4.0 / Digital Manufacturing / Smart Factory

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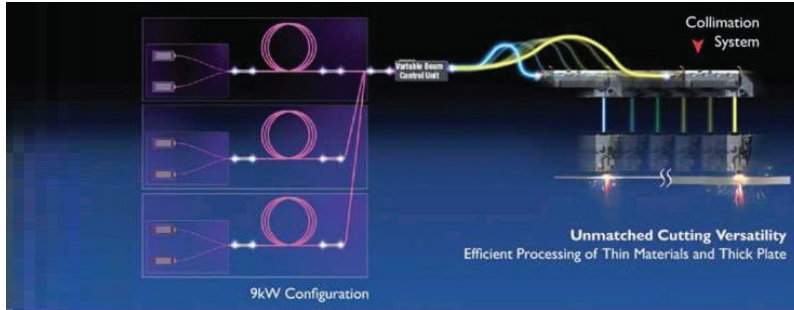
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FIBER LASER TECHNOLOGY

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

ENSIS for Ideal Material Cutting

Here's knowing Amada's ENSIS technology for continuous processing of thin materials and thick plates without cutting lens change or manual set-up.



Amada India's fiber laser boasts a very special feature, namely the ability to continuously adjust the beam to match the material thickness. As a result, the kerf grows slightly wider as the sheet thickness increases and the finished parts can therefore be removed without any difficulty. The technical implementation of this function is based on the expertise bundled in the in-house AMADA beam source. Users benefit from long, unattended production runs, almost without any set-up operations and optionally equipped with significant automation capabilities.

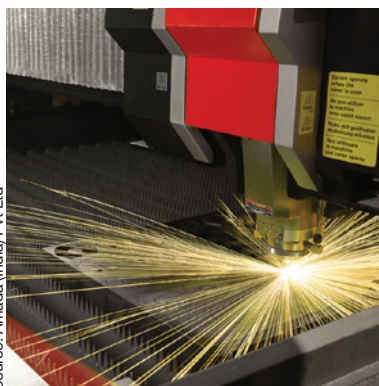
Knowing ENSIS

Amada's ENSIS fiber laser technology utilizes a proprietary and highly-innovative resonator to automatically change the beam mode to accommodate whatever material and thickness are being processed. Now, the latest evolution adds another dimension with an innovative collimation system to automatically control beam diameter and beam configuration for unprecedented productivity. To keep pace with the unmatched power and productivity of the ENSIS series, it is essential to

pair it with automated material handling system. It is equipped with a cutting-edge high-output fiber laser oscillator with a maximum output of 6kW/9kW to enable high-speed and high-quality cutting over the entire processing range (thin, medium thickness, and thick sheet metals), based on energy-saving and high-quality beams. Compared to Amada's conventional fiber laser cutting machine, processing speed has been increased about 2.4 times. Besides, high quality cutting over the thick material range is achieved by overcoming problems related to fiber lasers through reduced dross and bevel, and improved surface roughness. In addition to the new beam control technology, the fiber laser cutting machine employs Clean Fast Cut (CFC) technology and Easy Fast Cut (EZFC) technology to dramatically reduce the consumption of assist gas during nitrogen cutting, which is used mainly to cut stainless steel. It applies an original non-contact nozzle developed by Amada that supplies assist gas at a low pressure to reduce processing costs, while maintaining cutting quality.

Key evolution factors:

- Now available in 3kW, 6kW and 9kW
- Addition of collimated system expands ENSIS cut quality and capabilities
- Efficiency improvement by energy saving effect
- Collimation mechanism does not limit access to cutting lens or head maintenance
- Infinite mode and diameter control combination is an industry first
- 1 second pierce on 25mm plate
- Up to 66% reduction in process time when compared to conventional fiber laser at the same wattage.



Source: Amada (India) Pvt Ltd

DIE CHANGE & CLAMP PRODUCTS

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

Innovating with Customers

Güthle is presenting its comprehensive range of die changing and clamping products. Live demos and expert advice are add-ons.

DILOS SHUTTLE

At present in India, IMTEX FORMING is the biggest show for forming machine tools and its allied products, says Vishwanath Ammanagi, Managing Director – Sales, Güthle Pressenspannen. 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.

Exhibitions, according to him, provide an opportunity for manufacturers and end users to interact and innovate products. “When visitors walk in with their problems, we, together with machine builders, can provide complete solutions for optimum productivity and safe working environment to end users,” he adds.

Live demos of products

The show, according to Ammanagi, is an ideal platform to showcase the company's Quick Die change and Die clamp products. “We are showing a live demonstration of all types of our products: Quick die clamps, Die lifters and Die loading arms etc.,” he adds. The company has also arranged for one to one interaction with the experts from Güthle Germany. “Our aim is to give world-class products and solutions to our customers who change dies frequently on their machines,” he further adds.

Among the wide range of Güthle's showcased products is DILOS SHUTTLE, which is suitable for die weighing from 40kN to 600kN. The rail-mounted DILOS SHUTTLE travels back and forth between the die preparation and die transfer positions. Since with this changing technology the preparatory measures are not carried out directly in front of the press, production can continue unhindered up to the moment of the actual change. Only 10 to 25 percent of the conventional die changing times are required for the complete change. The DILOS SHUTTLE is manufactured in a variety of basic versions as well as in special versions, including even higher weight dies. Adaptation of the design to the space and functional situation generally presents no problems. If large presses or press-lines are to be retrofitted, the space available generally dictates what is possible. DILOS SHUTTLE allows various logistics systems to be created. Special versions enable even the most unusual problems to overcome.

The combination of DILOS SHUTTLE with standardized sub plates and hydraulic DILOS clamping techniques frequently proves to be the most flexible and future-oriented technology.

Right customers

The company's primary target customers at the show belong mainly to automotive and auto components sectors where small and large parts are produced by forming process, followed by aerospace, machine tools, medical, defense, railways, construction, textiles, and consumer durables industries.

“The show is an ideal platform to showcase our Quick Die change and Die clamp products. We are showing live demos of our products including Quick Die clamps, Die lifters and Die loading arms etc.”

Vishwanath Ammanagi
Managing Director - Sales
Güthle Pressenspannen



Source: Magic Wand Media

Vishwanath Ammanagi, Managing Director - Sales, Güthle Pressenspannen at the company booth

Source: Amada (India) Pvt Ltd

CNC HYDRAULIC PRESS BRAKES

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

Inanlar Press Brakes

The Press Brakes are heavy-duty machines for heavy and superior quality fabrication of sheet metal.

Inanlar offers more flexible manufacturing environment which is helpful for accepting new projects and prototyping. Its Bosch Rexroth Hydraulic system ensures maintenance-free environment. The press brake is equipped with industry best controllers, Delem / Cybelec for user-friendly machine operation. The machine comes with standard 3 axis and can be increased up to 6. The press brake employs Promecam clamping system for quick release and installation of tools. The Start Stop Series Press Brakes are eco-friendly using 40 percent less energy than classic

press brakes. Also, the lifetime of the machine is twice longer than the classic press brakes. The motorized crowning system delivers high accuracy bending with low running costs on various materials and thickness. Inanlar also offers a robust range of mechanical, hydraulic, CNC and electromechanical shearing machines. The variable rake angle hydraulic guillotine shear has a strong structure and easy usage. Automatic blade gap, rake angle and back gauge position adjustment are done by CNC controller according to thickness of material, and any type of sheet material can be cut with best quality. IMS Series electro-mechanical shear has been designed for the cutting of sheet metal and plastic materials. IMS Series meets thin and accurate cuttings. It provides effective and economical solutions to users.



Source: RadCAM Technologies Pvt Ltd

VISITORS' VIEWS



“IMTEX FORMING 2020 has been a wonderful experience with new technologies from various sectors showcased. This is my fifth visit to the show, which keeps getting better with every edition, making me look forward to the next.”

Praveen Kumar
Proprietor
Adaxial Tech



“I have come here to witness the latest technologies in the metal forming field. I have collected the relevant information on pneumatic, hydraulic, and plasma cutting technologies. Some of the hand tools displayed are highly appealing. Overall, a well-arranged and high-quality exhibition.”

Sarbjit Singh
Engineer
J S Bamrah Engg Works



“I have come from Mumbai to explore the latest technologies in punching and welding, which are located in Hall 4. The exhibitors are patient enough to explain everything elaborately. This is my second visit to IMTEX FORMING, and this edition is definitely a much-improved version.”

Manoj Rajput
Assistant Manager
Raychem RPG

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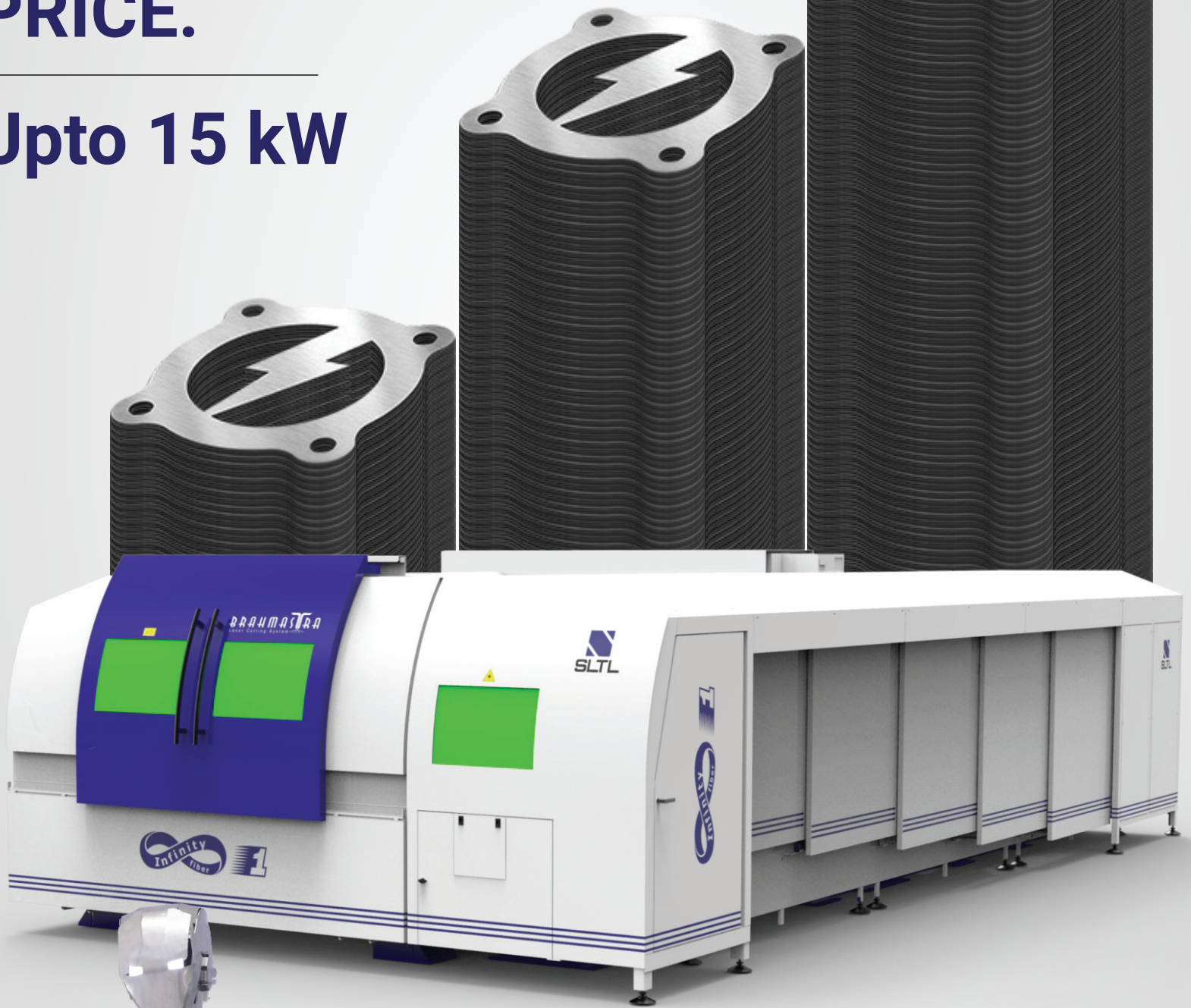
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