IMTEX FORMING 2020
International Forming Technology Exhibition

Concurrent Show
Tooltech 2020
International Exhibition of Dies & Moulds, Forming Tools, Machine Accessories, Metrology and CAD / CAM

JANUARY 23 – 28, 2020, BANGALORE, INDIA

Published By
Indian Machine Tool Manufacturers' Association

The official Show Daily of IMTEX FORMING 2020 | Day 1 • Thursday, January 23, 2020

LASER TECHNOLOGIES™

THE SERVICE TO THE INDUSTRY

Laser Technologies a decade experienced company expertise in sheet metal industry machineries for a reason, and the reason is the " logical solution" . LTPL believes a solution consist of Technology, affordability, quality and best serviceability, all our product offered carries the USP of "LOGICAL SOLUTION"

Laser Technologies, firstly introduced the mid power fiber laser, targeting the small scale industries to avail them the best of technology at reasonable cost, and this became utmost popular. This facilitate small manufacturing units to own the Laser cutting machine with proud and to cater their respective industries with enhanced quality, also gave extra edge to local R & D, as a result the sector is booming, India is becoming a manufacturing country. Hence our all offered solution like Fiber laser cutting machine, CNC Press Brakes, Shearing machine, Laser Welding machine along with non-metal laser cutting machine driven us to do more for the industry.

Today we have sold more than 650+ Laser cutting machine and leading with great future potential and plan, the coming age will dominated by high power laser, this powerful tool must be stable, productive and efficient this year we are launching 10KW fiber laser capacity with utmost built quality and off-course the best service anyone can expect.

Our other solutions like CNC Press Break, Shearing Machine, and Laser welding machine are going equally popular as our fiber laser cutting machine, the need of the hour is expertise and with multiple office at Mumbai, Pune, Bangalore, Ahmedabad & Delhi and technical staff more than 60+ we are building a infrastructure for our customer benefit, making everything easy for our customers.
Lastly , Laser Technologies Pvt Ltd, now one of the leading one stop solution for all laser based application, as well sheet metal processing machines. Some of application we focus on:-

VISIT US AT

Hall No.4
Stall No. B-137

IMTEX FORMING

January 23rd to 28th 2020
Bangalore International Exhibition Centre

Fiber laser cutting machines
CNC Press Break / CNC Bending machines
Laser Welding machines
Laser Marking / Laser Engraving machine
Non-Metal laser application
Automation and robotic laser laser solutions.
Your suggestions and inquiries are welcome.

OUR TECHNICAL PARTNERS

HSG · ALPHALASER · GCC · SEI LASER · Centricut · STIEFELMAYER lasertechnik

Contact us for more information

PAP/R/406 Near CG Motors Rabale, MIDC,
Navi Mumbai-400708
Tel - 022-41310099, Mob-7045885802
Email ID - info@lasertechnologies.co.in
Branches - Ahmedabad | Bangalore | Delhi | Pune.

IMTEX FORMING 2020
International Forming Technology Exhibition

Concurrent Show
Tooltech 2020
International Exhibition of Dies & Moulds, Forming Tools, Machine Accessories, Metrology and CAD / CAM

JANUARY 23 – 28, 2020, BANGALORE, INDIA

Published By
Indian Machine Tool Manufacturers' Association

SHOW DAILY™

The official Show Daily of IMTEX FORMING 2020

Day 1 • Thursday, January 23, 2020

TOWARD LASTING PROGRESS

Ushering in Innovations

Indian Machine Tool Manufacturers' Association's flagship event on metal forming and manufacturing technologies, IMTEX FORMING & Tooltech is once again here at Bangalore International Exhibition Centre (BIEC) from January 22–28, 2020 to present cutting-edge solutions in the metal forming sector. Here's discovering what's in store in the coming days…

Source: Magic Wand Media

IMTEX FORMING & Tooltech has long since established itself as the platform perfect for industrial change. The show has become a converging point for industry professionals, stakeholders, experts and academicians from a wide spectrum of manufacturing and ancillary industries hailing from all over the world to share knowledge with their peers, learn from experts and discover solutions to improve their efficiency. Taking place from a sprawling area of 33,000 sq mt with more than 500 exhibitors from over 22 countries including India, IMTMA's flagship event's 6th edition is showcasing cutting-edge technologies in metal forming including high-speed laser cutting, sheet metal working, welding and joining, presses, metrology, and CAD/CAM.

To be continued on 4 ➲

Continued from 3

The exhibiting companies are presenting technologies to suit user industry sectors such as aerospace, defence, railways, power, medical equipment, white and brown goods, oil and gas equipment, shipbuilding, and many more. Trade delegations from leading industries, public sector undertakings, national and international associations are also visiting the show.

Leaders affirm

Sharing his views on the show, Indradev Babu, President, IMTMA, said, "IMTMA has constantly endeavored to aid industries by taking strong developmental initiatives on areas spanning technology, R&D and data analytics. The Association, by bringing national and international industry leaders, products and innovations to IMTEX, has been a catalyst and trendsetter for the machine tool industry and its stakeholders. The exhibition is a forum where policymakers, technocrats, academia and manufacturers congregate to realize common business goals." V Anbu, Director General & CEO, IMTMA, shared, "It is incredibly inspiring to see the growth of a brand. IMTEX FORMING 2020 & Tooltech 2020, now counted as Asia's leading exhibition, is highly relevant given the prevailing tough market conditions. The exhibition creates a welcoming environment for visitors. Industrialists feel privileged to conduct transactions at the show. IMTEX FORMING 2020. is an expression of showing the world the capabilities of India's manufacturing industries."

"This year's IMTEX FORMING is the largest metal forming exhibition after we started organizing metal cutting and metal forming shows separately. The industry response for IMTEX FORMING 2020 & Tooltech 2020 has been great despite a challenging economic scenario," noted Jamshyd N Godrej, Chairman, Exhibitions, IMTMA.

"This year's IMTEX FORMING is the largest metal forming exhibition after we started organizing metal cutting and metal forming shows separately. The industry response for IMTEX FORMING 2020 & Tooltech 2020 has been great despite a challenging economic scenario."

Jamshyd N Godrej
Chairman - Exhibitions
IMTMA

"IMTMA by bringing national and international industry leaders, products and innovations to IMTEX FORMING, has been a catalyst and trendsetter for the machine tool industry and its stakeholders. The exhibition is a forum where policymakers, technocrats, academia and manufacturers congregate to realize common business goals."

Indradev Babu
President
IMTMA

"IMTEX FORMING 2020 & Tooltech 2020, now counted as Asia's leading exhibition, is highly relevant given the prevailing tough market conditions. It creates a welcoming environment for visitors. Industrialists feel privileged to conduct transactions at the show. The exhibition is an expression of showing the world the capabilities of India's manufacturing industries."

V Anbu
Director General & CEO
IMTMA

Concurrent shows

Tooltech 2020: is an event of dies & moulds, forming tools, machine tool accessories, metrology and CAD/CAM, which will be held parallel to IMTEX FORMING 2020.

ISFT 2020: IMTMA organized an International Seminar on Forming Technology (ISFT) for discussing trends in metal forming that took place yesterday, January 22, at BIEC.

Connect: It is an awareness programme for imparting knowledge on the machine tool industry to young engineers during IMTEX FORMING 2020 & Tooltech 2020. By interacting with industry experts students can closely witness machine tool industry's contribution to the industry growth and the role of an engineer in the manufacturing industry.

i2 Academia Pavilion: IMTMA has been continuously taking several initiatives to strengthen Industry - Academia bond. The dedicated pavilion is an opportunity for Indian Academic / R&D Institutions to showcase their R&D capabilities in the metal working field.

Reverse International Buyer-Seller Meet: This interactive platform for machine tool manufacturers and international buyers is an initiative toward helping both the sides explore opportunities from each other.

Highlights of the Show

- **500+ exhibitors**
- **Exhibitors from 22+ countries**
- **500+ live demos**
- **Focus on Additive Manufacturing and Industry 4.0**
- **Over 33,000 sq mt of exhibition space**
- **International Seminar on Forming Technology**
- **i2 Academia Pavilion: an event for academia and industry to interact and explore possibilities for tie-ups**
- **Connect: an awareness programme on machine tool industry**
- **Reverse International Buyer-Seller Meet: an interaction platform for machine tool manufacturers and international buyers**

Printed and Published by Magic Wand Media

MURALI SUNDARAM, M: +91 9740048390, E: murali.sundaram@magicwandmedia.in
ARUNIMA NATH, M: +91 9833744969, E: arunima.nath@magicwandmedia.in

AMADA®

THE ECONOMIC TIMES
BFMb
BEST METAL FORMING BRANDS
2019

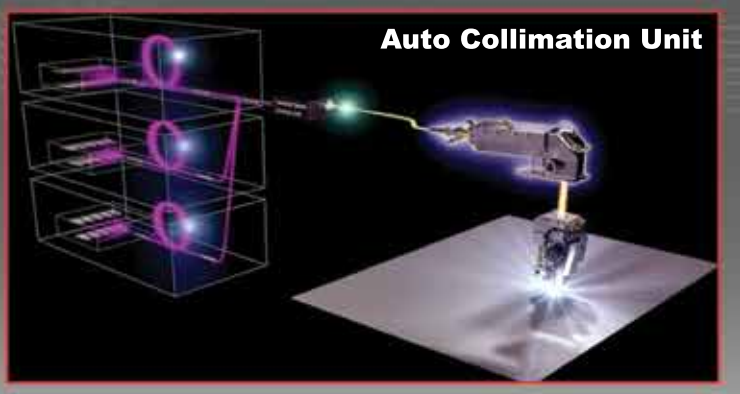
Fiber Laser line-up

AMADA
Fiber Laser Lineup

AMNC 3i

Most efficient and versatile laser cutting machine

ENSIS AJ SERIES 3kW 6kW 9kW



AMNC 3i

Global standard fiber laser cutting machine

LCG-3015AJ II 3kW

Most suitable for startups

IMTEX FORMING 2020
International Forming Technology Exhibition

Hall No. 4
B111

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

Growing Together with Our Customers

Amada
www.amadaindia.co.in

DEBURRING & FINISHING MACHINES

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

Deburring & Finishing Processes in Sheet Metal Processing

Deburring and finishing is a value-added operation in metal fabrication work. Deburring is important for safety, quality, aesthetics, functionality, and smooth operation of working parts.

Even a small notch can cause moving parts to catch, creating the potential for an accident, injury, or unnecessary delay in production. Rough edges can also cause injury when individuals are required to handle blanks. Each of these preventable problems can cost companies a great deal of money.

"Our surface preparation abrasives brush manufacturing experience has allowed us to build a deburring machine with all the necessary technical devices required to obtain a perfect finish from small parts to a larger area," says Dr Arvind Patel, Founder & CEO, Valgro India Ltd.

Knowing basics

Valgro SAMARTH Series Deburring Machines work on the principal of conveyor system with the deburring brush rotating along with spindle oscillation of the deburring wheel with high rpm.

- **Deburring:** The burr can vary when punching or laser cutting your materials. Burrs created via laser cutting and punching adhere to the material in various strengths. Therefore, finding a comprehensive deburring solution is crucial.
- **Edge rounding:** A good edge rounding result is characterized by removing the sharpness on the edges of your laser-cut or punched materials. This prevents injuries that may be caused by handling the material, while simultaneously improving downstream processing. Furthermore, a radius at the edge of the materials also improves paint adhesion.
- **Oxide removal:** If you are cutting via a CO_2-laser with oxygen, the classic hybrid can remove any oxide layers along the cutting edge of the material.
- **Surface finish:** Punched and laser-cut parts often require high demands on the surface. A beautiful surface is a pleasant side effect of the deburring process. In some cases, a specific type of surface finish could be necessary.
- **Slag removal:** The slag on oxyfuel or plasma-cut parts must be removed via hand grinding before the actual deburring process takes place. This is done to ensure a reliable and economical subsequent deburring process. Thanks to the machines offered by Valgro India, having to manually remove the slag is no longer necessary.
- **Micro joint removal:** The traditional micro-joint method places small, interconnecting tabs between parts by programming the spacing of the slitting punch to leave material unpunched. These burrs may also cause serious injury if not removed.
- **Line grain finish:** Most common finish for stainless steel sheet metal parts with various abrasives belt grinding or brush polishing operations.
- **Non-directional finish:** Non-directional finish also known as random-orbit finish or Vibration Finish is very popular among architects since it has low reflectivity.

Source: Valgro India Ltd

The article is written by Dr Arvind Patel, Founder & CEO, Valgro India Ltd.

Burr Classification

Class 1: Micro Burrs; Class 2: Feather Burrs;
Class 3: Attached Burrs; and Class 4: Root Burrs

Source: Valgro India Ltd

AMPCO METAL

Our state of the art facility in Pune, Chakan MIDC, India

AMPCO® 18, 21 & M4

Expert materials for tube bending

- Maximize tools speed
- Improve sliding properties
- Increase product quality
- No seizing or scratching
- Reduce production cost
- Minimum friction

Tube Bending

Tube Forming

Deep Drawing

AMPCO® 25

Expert material for tube forming and deep drawing

- Excellent sliding properties
- High hardness, extended life time
- No cold welds, no galling
- Perfect score free surface on stainless steel.
- Not hardening or expensive coating needed
- Easy to regrind, high thermal conductivity

Applications

Plastic Industry
AMPCOLOY®83/944/940/95

Soap Mould
AMPCOLOY® 940/944

Resistance Welding
AMPCOLOY®972/940/83/95

Aerospace & Offshore
AMPCO®45/M4
AMSA4640/4881

Steel Mill &
General Engineering
AMPCO®18/21/M4

Address

AMPCO METAL INDIA PVT. LTD.
A-8/4, At Village - Nighoje, Chakan MIDC,
Phase IV, Tal : Khed, Pune – 410501
MAHARASHTRA, INDIA
Tel: +91 2135 610 810 | Fax: +91 2135 610 811
infoindia@ampcometal.com

AMPCO METAL S.A
Route de Chesalles 48 P.O Box 45,
1723 Marly Switzerland
Toll Free Phone: 800 8080 5050
Tel.: +41 26 439 93 00
Fax.: +41 26 439 93 01

Food Approval of AMPCO®, AMPCOLOY® Materials
AMPCO® 18, AMPCO® M4 , AMPCOLOY® 940 , AMPCOLOY® 944

AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS

KNOWLEDGE SHARING

ISFT 2020 Unveils Latest Trends in Metal Forming

Organized by IMTMA on January 22, 2020, the International Seminar on Forming Technology (ISFT) 2020 offered an insight into the pertinent aspects of forming technology, the latest trends in the sector and the gaps that need to be filled…

Held under the theme, 'Shaping the future of Manufacturing', ISFT 2020 turned out to be a highly informative event that coincided with IMTEX FORMING 2020 & Tooltech 2020.

Over 300 delegates from various segments of manufacturing industry including automotive, aerospace, defence, railway establishments, consumer durables, and general engineering participated in the seminar to explore the rapid technology transitions in the forming industry.

Seminar Highlights

Welcoming the delegates to ISFT 2020, Indradev Babu, President, IMTMA, said, "The response to this seminar clearly indicates the importance of forming technology in manufacturing. The presence of visitors encourages us to create a platform like this to share the emerging trends in this technology arena."

Delivering his keynote address on 'Aggressive Lightweighting through Use of Composites', Dr Asim Tewari, G.K. Devarajulu Chair Professor, Department of Mechanical Engineering, IIT-Bombay said, "Every light-weighting effort has mass-decompounding effects when adopted in the early vehicle development process. Mass-decompounding can lead to substantial cost savings, partially offsetting the additional cost required for light-weighting."

He further added, "This is the best time to adopt new technologies. As there is a massive transformation in the automotive sector, the change to EVs from IC engines will create new opportunities and challenges in the field of forming technology. Change is the only constant but fast adaptation to that will be the only resort at this juncture."

Source: IMTMA

Experts Speak

Spread over 3 concurrent sessions and 6 technology tracks, renowned experts from eminent national and international companies and research institutes from Austria, Belgium, Germany, Sweden, Holland, the UK, the US, Switzerland, Italy and India shared their expertise and the latest developments in Metal Forming technologies. They covered topics including Laser Technology, Future of Bending Automation, Innovative CMT Processes, Next Generation Stamping Technology, Production Solutions for High Strength Aluminum, Additive Applications in Aerospace Industry, to name a few.

With India embarking on a new phase in manufacturing on a new phase in manufacturing, ISFT 2020 proved to be an important event for metal forming manufacturers to focus on technology and adding depth in their manufacturing process.

Entry to high-end measurement technology: precise, fast, robust

ELM3x0x basic line
24 bit
50 kSps per channel
simultaneous
25 or 100 ppm @ 23 °C

ELM3x4x economy line
24 bit
1 kSps per channel
multiplexed
100 ppm @ 0...50 °C

www.beckhoff.co.in/measurement-technology

Beckhoff extends the range of system-integrated and highly scalable measurement technology with the EtherCAT measurement modules from the ELM basic and economy line. The ELM314x economy line supplements the basic line by the 1 kSps sample class with low channel costs.

BECKHOFF ENABLING
MADE BY
INDIA

Basic line
- input wiring: voltage 20 mV…60 V, current 20 mA, IEPE, DMS, RTD/TC

Economy line
- input wiring: voltage 1.25…10 V, current 20 mA

Each has:
- extensive variable filter functions
- TrueRMS calculation and differentiator/integrator
- standard EtherCAT interface for operation on any EtherCAT Master

Beckhoff Automation Pvt. Ltd.
Pune – 411 001, India
Phone: +91 (20) 6706 4800
info@beckhoff.co.in

New Automation Technology **BECKHOFF**

METAL WORKING MACHINERY

Solution for Higher Thickness Cutting

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

Read on to know how Amada India helped its customer improve bevel and cutting surface by ENSIS technology and a special nozzle…

Amada India's customer in question had grown from a small, developing business to one of the premium suppliers for the construction equipment industry. It supplied construction equipment parts to the industry.

The Challenge

The company would supply parts for construction machinery ranging from mid to higher thickness mild steel that required less bevel angle and good cutting surface finish using a machining center that involved multiple operators. This caused higher labor costs and longer lead times to manufacture. The company took its core values seriously including its mission to meet customer requirements of quality and volume. However, to increase its volume and meet the quality needed, it was looking for a wide range fiber laser cutting machine, which had to be energy saving with the capabilities to process variable thicknesses and production lots.

Problem solving for thick mild steel

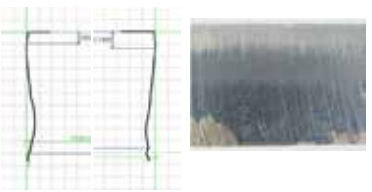
BEFORE

Cutting surface of thick mild steel is likely to become rough and the lower surface is prone to gouging in fiber laser.

Higher skill required in assembly/welding process in order to overcome the bevel

AFTER

Improved bevel and cutting surface by ENSIS technology and special nozzle.



Reduction of required skill and workload by quality improvement in blanking process

Source: Amada (India) Pvt Ltd

Challenge:

To increase its volume and meet the quality needed, the company was looking for a wide range energy-saving fiber laser cutting machine with the capabilities to process variable thicknesses and production lots.

Solution:

Amada's original ENSIS technology to help achieve a full range of high-speed, high-grade and stable processing, matching various mix and lot production with Amada's original beam control technology.

ENSIS technology

It was this dedication to sustainability that compelled the company to move from its former process to Amada's original ENSIS technology. Variable beam control unit changes and optimizes the beam shape seamlessly depending upon the thickness to be cut, leading to a high-speed process for thin material by extra-narrow beam with high-energy density and thick material process by the beam of large kerf width, making the gap remove molten material with good cutting quality. The company has seen up to 60 percent reduction in bevel angle with 300 percent increase in productivity compared to the conventional fiber laser cutting machine. The company saved on man-hours and benefited by improving the cutting quality.

ENGINEERED ALLOYS

AMPCO METAL Solutions in Metal Forming

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

The company's engineered alloys find their use in a variety of applications and are available in a wide range of shapes and sizes to suit them.

AMPCO® BRONZE is a universal material used in all applications where all kind of marks, galling or friction problems could decrease quality in an unrepairable manner. It is also a perfect material where severe load and wear conditions must be resolved. These alloys are the ideal solution in bending, forming or deep drawing process, especially for stainless steel and titanium.

Alloys dedicated to the metal forming cover a hardness range from 192 to 420 Brinell (< 20 to 44 HRC conversion).

AMPCO®18: A standard alloy for all applications requiring sliding wear and fatigue resistance. Ideal for mandrel and wiper dies in the tube bending process. Additionally, it's a food approved material.

AMPCO®21: Used for wear strips replacing hardened steel. The largest use is as die rings insert, forming rolls in bending, drawing and forming operation.

Source: AMPCO METAL India Pvt Ltd

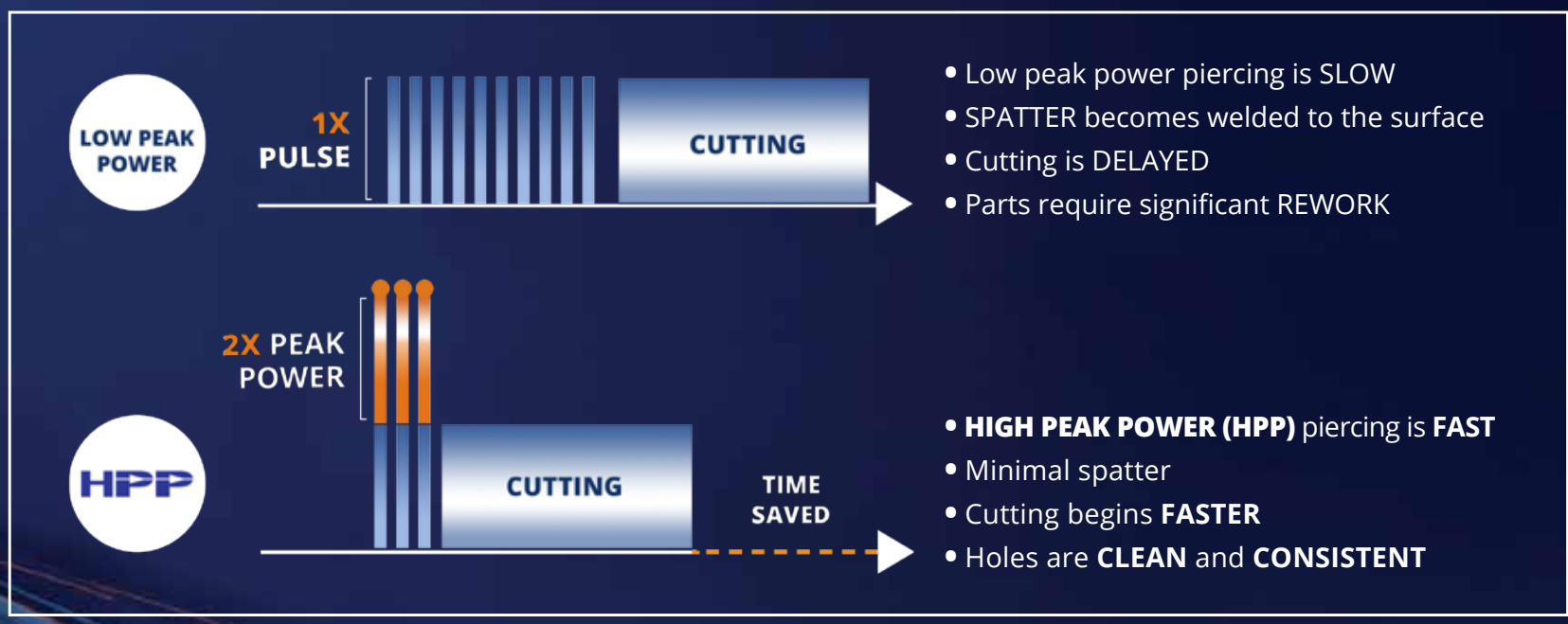
AMPCO®22, AMPCO®25 and AMPCO®26: Their good sliding properties give a high forming ratio and a high-quality product. Their high hardness gives a high tooling lifetime and finally their high resistance against elastic deformation gives a perfect precision shape to the end product.

AMPCO®M4: Initially developed as an aircraft specification alloy for gear, it is now rapidly growing in use where higher mechanical properties at elevated temperatures together with corrosion-resistant properties are required. Its typical application is in tube forming: wiper dies and mandrels.

A wide range of shapes and sizes (rounds, tubes, plates, rectangles) and delivery states are available from stock for all these alloys to meet short delivery times required by the tube forming sector.

PIERCE CLEANER
CUT FASTER
2X PEAK POWER

High Peak Power (HPP) Fiber Lasers



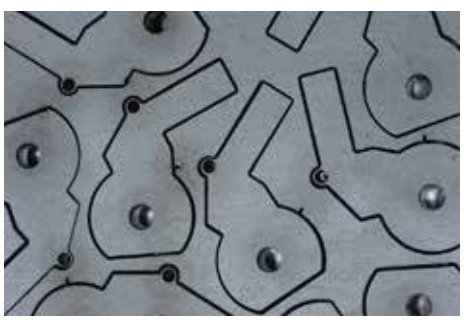
HIGH PEAK POWER (HPP) increases overall throughput and decreases operational costs while saving time and materials

PLEASE VISIT US & **EARN YOUR REWARD!**
Hall 2A Stall B104

Available on the latest **YLR** and **YLS** CW high power Lasers

MATERIAL SAVINGS
up to 25%

SHORTER LEAD-INS for **DENSER** PART NESTING



For more information visit: **www.ipgphotonics.com/hpp**

Registered Office	Laser Application Center	Regional Sales & Service
BENGALURU	**DELHI/NCR**	**AHMEDABAD**
Indiqube-ETA, No.38/4, Adjacent to Dell EMC², Dod-denekundi, Outer Ring Road, Bangalore – 560 037, INDIA	Plot No. 30/32, Knowledge Park III, Greater Noida – 201 308, INDIA	Ground Floor 9th Ave Building, Behind Rajpath Club SG Highway, Ahmedabad – 380 054, INDIA

Email id: **sales.india@ipgphotonics.com**
Phone: **+91 956 060 8808**

IPG PHOTONICS®

PARTS CLEANING MACHINES

Saving the Planet

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

Here's to know how Ecoclean helped a leading spring manufacturing company in replacing its conventional Trichloroethylene (TCE)-based machine with environment friendly Hydrocarbon solvents.

A large number of substances used in manufacturing and commerce industry have been recognized officially as hazardous to industrial workers, and maximum limits of acceptable concentration for 8-hour exposure have been established. Solvents or mixtures used in the manufacturing process are likely to have a serious effect on human health because of their content of VOCs. They need to be replaced by safer substances or mixtures.


Source: Ecoclean Machines Pvt Ltd

Acting responsibly

A leading spring manufacturing company in South India was looking forward to replace its conventional Trichloroethylene (TCE)-based machine with safer and environment friendly solvents. Ecoclean's Universal 71C machine has proved to be a solution to this.

Replacement by Universal 71C

The Universal 71C is a highly sophisticated system using hydrocarbons as cleaning media. Features such as Injection Flood Wash (IFW) and Ultrasonic (US) for optimum removal of chips, and closed-loop system with processes like cleaning, drying and distillation under vacuum, make it a highly safe equipment. It is engineered to handle the batch size of 670 x 480 x 300 mm (l x w x h). Thanks to the modular design of Universal 71C, it can be used for a very wide range of customers' products in different batches. The machine's ability to store several cleaning programs and selectable cleaning programs in its controller is an additional benefit to customer handling different types of components.

Challenge:

A leading spring manufacturing company in South India was looking forward to replace its conventional Trichloroethylene (TCE)-based machine with with safer and environment friendly solvent. TCE as a cleaning medium being hazardous for workers as well as for the environment.

Solution:

Ecoclean's Universal 71C, the new hydrocarbon machine. It consumes approximately 100 - 125 liters Isophar H hydrocarbon in a year, thus eliminating TCE hazards, considerably reducing the consumption cost, ultimately reducing high cost per unit for cleaning and high disposal cost.

Substitution of TCE

The TCE-based machine consumed approximately 11,000 Kg of TCE per year. The Universal 71C machine consumes only 100 - 125 liters of Isophar H hydrocarbon in a year, thus considerably reducing the consumption cost and ultimately reducing high cost per unit for cleaning and high disposal cost.

Benefits for the customer

The machine has helped in increasing the productivity, reducing material rejection due to consistent cleaning results, reducing maintenance and leading to higher uptime (~ 95%). It has done away with the need to change the cleaning media due to excellent regeneration system (online distillation). Electrical energy is conserved by heat recovery.

LASER TECHNOLOGY

T6200 - Laser Tube Cutting System

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

Introducing Versatile Fiber Laser Tube Cutting System.

Leading Laser Systems manufacturing company, SLTL Group (Sahajanand Laser Technology Ltd) has launched a dedicated Laser Tube Cutting System, T6200. The system is a unique combination of the SLTL Group's proprietary Laser Technology and a robust mechanical structure designed by the in-house R&D team.

This dedicated Laser Tube Cutting System aims to offer extreme precision, productivity, and quality to the tube processing industry.

Following are its features:

Designed for Precision: The drive system in T6200 prevents backlash and offers great stability to the process. As a result, the system is capable of delivering excellent edge quality, efficient cutting and cost-effective processing.

Advanced Software: T6200 allows advanced nesting programs to be created and run on the system. The software provides flexibility for the users to add, change or delete programs on the go.

Robust Chuck with integrated rotary axis: The system is equipped with automatic electrical chuck to provide instant response and fit in different tube geometries perfectly. The chuck system is perfectly calibrated to attain high machining accuracy by avoiding any torsional stress in the tube.

More shapes and materials: Unique make of the hardware and software allows T6200 to operate on shapes like triangle, square, rectangle, circular and even special sections and open shapes. With functional power supply capabilities, the system can work smoothly on materials like SS, MS, Al, Cu, Br, Gi and more.

Compact in size: The machine is designed compactly to have the smallest footprint. This allows the system to have the highest productivity per footprint in the industry. The system is well integrated with a smart software developed by the SLTL Group to attain maximum yield.

Proper positioning: Particularly in the case of long and thin pipes, measurement is critical for quality since pipes are positioned in a line, in the central position, for laser cutting. Therefore, they must be positioned perfectly. T6200 does that flawlessly.

Source: SLTL Group

With T6200 Laser Tube Cutting system, the SLTL Group aims to achieve superior results for the tube processing industry.

IoT SOFTWARE

Beckhoff Automation Pvt Ltd
www.beckhoff.com/twincat-cloud-engineering
Hall 3A, Booth A-121

Smart Engineering Directly in the Cloud

With TwinCAT Cloud Engineering, users can instantiate and use existing TwinCAT engineering and runtime products directly in the cloud.

PC-based control offers a central, open and comprehensive machine control platform ideal for delivering highly efficient, IoT-based automation strategies. It enables machines, plants and production lines to be connected in ways that unlock their full efficiency potential across entire processes. In this context, TwinCAT Cloud Engineering adds a new dimension by providing users with an easy means of engineering TwinCAT instances and controllers in the cloud.

Source: Beckhoff Automation Pvt Ltd

With TwinCAT Cloud Engineering, even globally distributed control systems in Industry 4.0 environments are easy to operate and maintain remotely.

With TwinCAT Cloud Engineering, users can instantiate and use existing TwinCAT engineering and runtime products directly in the cloud. Quick and easy to access from the Beckhoff website with a web browser and requiring no additional software, the new solution enables registered users to work with the TwinCAT development environment even from previously unsupported devices such as tablet PCs.

The TwinCAT Cloud Engineering instances generated by users can be connected to physical control hardware over a secure transport channel. Users not only enjoy all the advantages of the TwinCAT control architecture, but distributed collaboration support through a source control repository as well. For new users in particular, having access to a TwinCAT Cloud Engineering instance in the cloud provides an ideal and comprehensive foundation on which to get to know the TwinCAT environment.

In addition, TwinCAT Cloud Engineering enables users to move their entire TwinCAT architecture to the cloud, the only difference versus a conventional TwinCAT environment being that they use a virtual machine instead of a local engineering PC. One advantage is that users need not get used to a new software environment but can simply continue to work in the same, familiar development environment. Another is that they do not have to install and maintain multiple software versions tailored to specific machine generations on their own PCs. Instead, users can run separate TwinCAT Cloud Engineering instances with different software versions, all of which they can access remotely whenever they need to. Project files are stored in a source code control repository which can be accessed directly from within TwinCAT Engineering.

COORDINATE MEASURING MACHINES

ZEISS' SPECTRUM Plus

The company is presenting a live demo of its latest CMM at its booth at IMTEX FORMING 2020 & Tooltech 2020.

ZEISS India launches the new SPECTRUM Plus CMM at the show – A machine that offers more reliability, stability, capability and flexibility. All of this at an unmatched price-performance ratio.

The CMM, in combination with ZEISS VAST XT, allows in this class of machines a high resolution of points by using active scanning, together with long or heavy probes.

Source: Carl Zeiss India (Bangalore) Pvt Ltd

The machine provides the highest quality from its leading technology with a MPEE0 of 1.8+L/300 µm for 5/5/6 size.

ZEISS SPECTRUM Plus can also be equipped with ZEISS RDS C, which allows a step range of 2.5 degree with 20,736 possible angular positions measurement.

Additional benefits include heat reduction, thanks to external fan circulation for heat emission and a smaller footprint because of backpack controller box integrated system design.

The machine can be offered to customers with different sensor options:

- ZEISS direct VAST XXT
- ZEISS RDS C CAA including VAST XXT
- ZEISS VAST XT gold

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

LASER CUTTING MACHINES

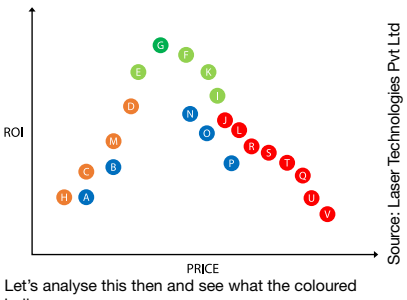
Laser Technologies Pvt Ltd
www.lasertechnologies.co.in
Hall 4, Booth B-137

The ROI Dilemma

A categorization of different kinds of laser cutting machines and a guide to choose the one that will pay for itself the quickest...

How do you decide which laser cutting machine to buy? The answer is quite simple: one must buy the one with the best ROI. With the laser market inundated with laser costing from peanuts to platinum, which one of these machines would give you the best ROI. Like most optimization problems, the graph of price vs ROI looks something like this.

The Orange Balls– Typical sales strategy for these companies would be to focus on one or two things in the entire machine, give sales schemes, freebies and less warranty. There ain't a thing called free lunch though. Stay away from these.



Source: Laser Technologies Pvt Ltd

Let's analyse this then and see what the coloured balls mean.

The Blue Balls– These are the guys who over-price their machines to generate an illusion of quality. Typical salesmen from these companies would repeatedly call other machines as cheaper. They would also include a few circus features (features that look fancy but are practically worthless) in their machines.

The Red Balls– These are the machines that are extremely costly and are sold with an "I am a brand; I'll look cool in your factory" pitch. The sales strategy is to talk about quality and proven track record. Their answer to better price is their own used machines. Like we don't have enough legacy machines in the country. These red balls may literally leave you in the red.

The Green Balls– These are well engineered, well thought of machines that are suitable for the Indian market. They give you a fine balance between price and quality. You can place your bets here.

The Dark Green Ball– That's us. Obviously.

DIE LIFTERS

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

ROLLBLOC Die Lifters

The Die Lifters are available with balls or rollers, and as spring and hydraulic types.

The conventional procedure for changing press tools often becomes tedious and potentially dangerous when handling dies weighing more than 500kg.

The ROLLBLOC die lifters are used for easy handling and precision positioning of dies weighing tons.

Source: Güthle Pressenspannen GmbH

Press tables can be equipped with ROLLBLOC die lifters, available in Ball or Roller version and in spring or hydraulic types.

Load distribution over several balls or rollers and their mounting arrangement allows for smooth movement that makes it possible to quickly move the die with little effort in any direction.

Exact manual positioning of the die therefore poses absolutely no problems, and is reflected in increased productivity.

The ROLLBLOC die lifters are manufactured for the standard slot size of 18/22/28/36mm with DIN 650 standards.

The die lifters can be used for special applications and with higher temperatures up to 280°C.

INTERNATIONAL VIEWPOINT

Ucimu-Sistemi Per Produrre
https://www.ucimu.it/en/association
Hall 3A, Booth C-103

Adding Strengths

Massimo Carboniero, President, Ucimu-Sistemi Per Produrre, is highly enthusiastic and believes India holds the key to the future

When Carboniero tells you that in the first nine months of 2019, India turned out to be the eighth destination market for the Italian product offer of the sector, and the second one in Asia, you know he is serious about the Indian market. The sector sales of 'Made in Italy' reached an amount of €66 million, corresponding to 13.7 percent more as compared to the same period of the previous year. About 41 percent of 'Made in Italy' exports to India is metal forming machines. On the other hand, in the first nine months of 2019, Italy imported Indian machine tools for an amount of €3.7 million.

Indian Opportunity

For him, IMTEX FORMING & Tooltech is a great opportunity for the Italian machine tool builders to increase their activity in one of the most vibrant markets. He hopes to meet plenty of local users interested in 'Made in Italy'. Flexibility, very high technological standards, marked product customization, after-sale assistance, all together make the hallmark of the Italian sector and its products.
Besides the characteristics, which have always allowed the Italian industry to be a leader in the international scenario - third among manufacturers and second among exporters - over several years, the Italian manufacturers have also been offering digitalisation and interconnection of machines.
Increased digitalisation has added to the country's strengths, and today, they are capable of providing users and customers in every part of the world the best performances in terms of productivity and efficiency of industrial plants, higher safety of machines and processes, a more appropriate exploitation of resources in compliance with eco-sustainability, less incidence of problems connected with anomalies and machine downtime. Carboniero thinks these technologies and new approaches represent the plus that could be useful for Indian users.

Representing Italy

About 15 Italian companies are taking part in the show, directly or as members of ITC (Italian Technology Center) network project, whose aim is to promote Italian companies that belong to it. Moreover, in order to support the development of the Indian market in the machine tools and plastic machinery sectors, the two associations UCIMU-SISTEMI PER PRODURRE and AMAPLAST have opened - as part of their network project called 'Market Development Platform - Network Of Enterprises' - in March 2013, the Desk India, an operational workstation managed by Nilesh Joshi at the IICCI headquarter (Indo-Italian Chamber of Commerce and Industry) in Mumbai, born with the support of the Ministry of Economic Development.
As a spin-off, ITC was conceived by a group of Italian companies to support internationalisation of the companies within the area by establishing a market presence.


Source: UCIMU-SISTEMI PER PRODURRE

"Increased digitalisation has added to our strengths, and today we are capable of providing users and customers in every part of the world the best performances in terms of productivity and efficiency."

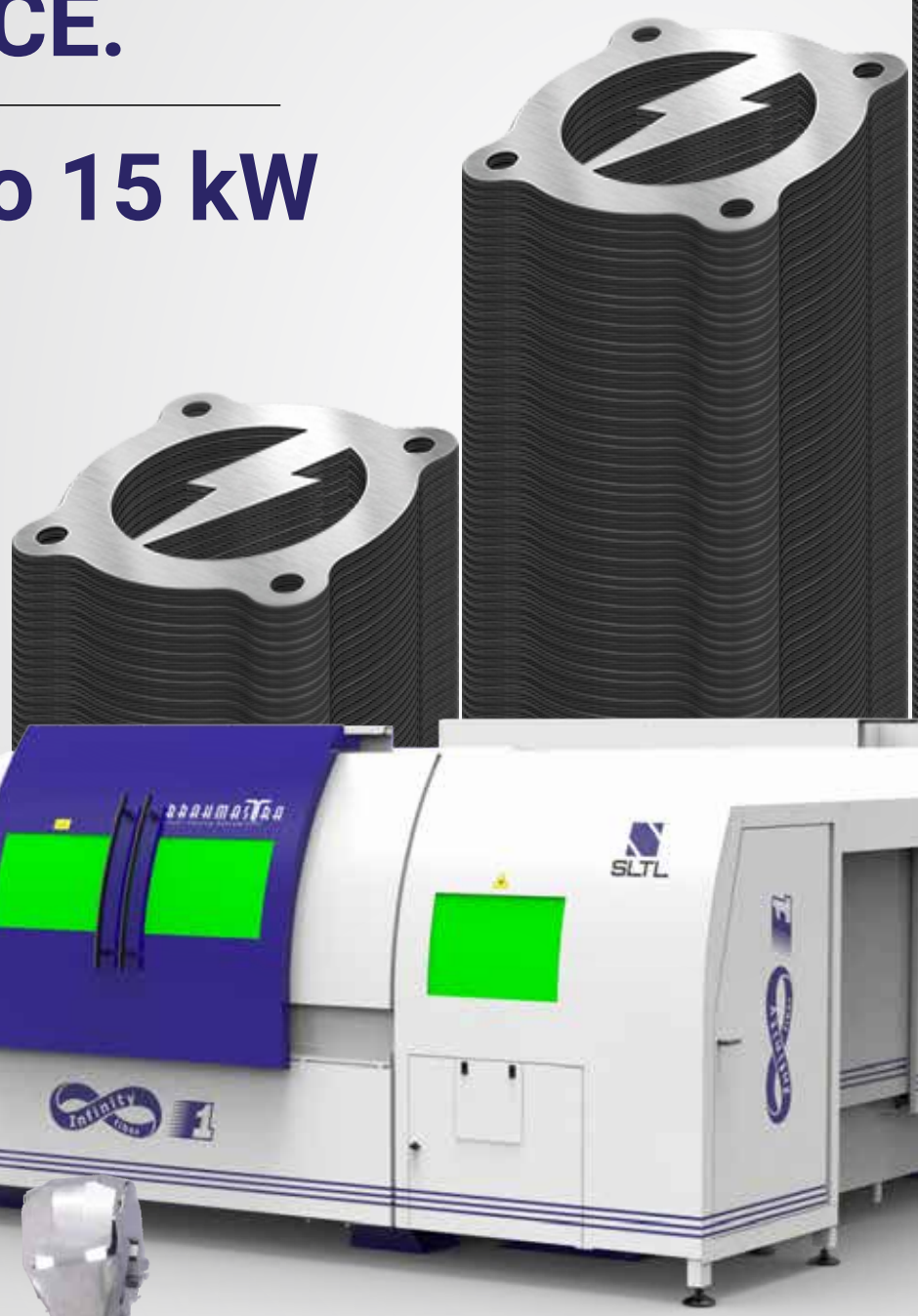
Massimo Carboniero
President
UCIMU-SISTEMI PER PRODURRE
Italian Machine Tools, Robots & Automation Manufacturers Association

SLTL™
Group

ENDLESS **PRODUCTIVITY,** REASONABLE **PRICE.**

Upto 15 kW

www.SLTL.com



VISIT US @
HALL : 4 | STALL : B-110

SLTL Group received Best Brand Award by Economic Times for its contribution to key transformations in the industry. We dedicate this success to our valuable customers.