



International Forming Technology Exhibition

16 - 21, JUNE, 2022 | BANGALORE, INDIA

Concurrent Show



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



International Exhibition on Industry 4.0 & Additive Manufacturing

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Indian Machine Tool Manufacturers' Association



SHOWDAILYTM

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DEBURRING AND METAL FINISHING ABRASIVE BRUSHING MACHINES

Poised for Success

Dr Arvind Patel, CEO, Valgro India Ltd, had had the foresight to get into abrasives manufacturing when it was a novelty in India. This vision has fetched the company its success and stature, prodding it to innovate relentlessly.



Team Valgro India at IMTEX FORMING 2022

Source: Magic Wand Media

Way back in 1995, when India had no abrasives manufacturing, Dr Arvind Patel set up Valgro as a limited liability corporation to market abrasives in India. Five years later, he decided to produce it in-house with the help of a German consultant. It was the first nonwoven

abrasives producer in India. Three years later, he established an R&D department to improve product quality and build innovative solutions. The TUV ISO certification came in 2008. By then, the company had made strong inroads into the automotive, ceramics, and steel industries. Valgro India had arrived.

Dr Patel says, "When it comes to abrasive brushes, our wide-faced ones set us apart from our competitors. Only Germany, Italy, and China produce brushes with a broad face. They are used in cleaning and removing burrs from metal surfaces. Other items include spindle-mounted mop wheels for corner polishing, convolute

wheels, and nylon abrasives. We also make mobile polishers and abrasive master kits for maintenance shops, stainless steel fabrication, and pharmaceutical production, excellent for industrial deburring and finishing."

To be continued on 2

Meet us...

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IS BURR A HEADACHE?

Hall : 2A | Booth : C 102
Date : 16 to 21 June 2022

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SOLUTIONS FOR Deburring + Finishing + Edge rounding + Slag removal + Oxide removal + Surface Finishing for **SHEET METAL PROCESSING**

Source: Magic Wand Media



Source: Valgro India Ltd



Continued from 1

Building a Brand

In the past five years, demand for safety and aesthetics have led to an increase in surface preparation applications. In addition to metal, abrasive chemicals are used on wood, ceramics, and polymers. The opportunities are limitless. "While others too have entered this space, we have an advantage as we provide both standard and application-based abrasive solutions. Over the years, we have developed 1,000-plus application-specific abrasive variants. This has helped us build a reputation as a surface solutions provider and expand our market share by manufacturing specialized purpose surface solution machines," he adds.

Valgro India collaborates with clients to create innovative solutions that improve efficiency and precision throughout the product lifecycle. From the tiniest design elements through the final assembly, the company takes a proactive approach at every step of the surface solution design process. It uses its global network of customers, suppliers, and sales repre-

sentatives to discover areas for improvement, which are then implemented by the design and production facilities.

Today, the company has a presence in the engineering, automobile, aerospace, military, electronics, rubber, power plants, steel fabrication, stainless steel services, steel plants, textile, ceramics, metal strips, and surgical equipment sectors, among others. The ISO 9001:2018 certification from TUV Sud Germany helped immensely. It also exports to 16 nations, including USA, Canada, Russia, UAE, Bangkok, Singapore, Korea, Egypt, Australia, and Europe, says Dr Patel with a sense of pride. In fact, the ability to develop the same grade abrasives that Germany and Italy manufacture is an achievement to him. That is because the initial years of struggle helped him through the challenges to meet this claim.

Holding Hands

Valgro has built a team that helps each one learn from the other. Dr Patel knows deep down that humility has its virtues. "Every Valgro employee has embraced

» At IMTEX FORMING 2022, Valgro is showcasing a variety of deburring and metal finishing equipment for a range of applications, including sheet metal fabrications, tubes, and shearing cuts, laser cuts, plasma cuts, and gas cuts.«

Dr Arvind Patel
CEO
Valgro India Ltd

the company's mission and performs admirably for themselves and the business. Our team has been influenced by this routine, and our management staff is now taking more chances and making better decisions," he says. The pandemic did play spoilsport to the Manufacturing industry, and Dr Patel cites two reasons: The machinery market is 1/20th the size of the overall manufacturing market, so small changes in production value have a significant impact. Second, investment in machinery is specialized and expensive. So while agriculture, semiconductors, electronics, and textile machines are functioning well, other industries, such as aerospace, are worse off.

The impact of the pandemic has had implications on production, demand, and supply chains. Delivery delays, increasing costs, and uncertainty are the three major obstacles most companies have confronted. Despite this, Valgro India has been able to pivot and remain nimble by responding to new business realities and has tasted success by demonstrating the significance of data, trends, and the capacity to derive useful intelligence from them.

The company has gone one step further by making significant investments to make its factory smart and efficient. It is focusing on integrating superior production and operations practices with digital technology to build a smart organization that utilizes data to drive intelligent activities.

What's on Display?

At IMTEX FORMING, Valgro is showcasing a variety of deburring and metal finishing equipment for a range of applications, including sheet metal fabrications, tubes, and shearing cuts, laser cuts, plasma cuts, and gas cuts.

It is displaying the following machines that are a first in India: Plasma and gas cut parts, slag removal machine, Satya SLR Series; laser cut and fine blanking part deburring and edge rounding: LBF Karam series; laser cut parts deburring and finishing: Samarth DB Model; end edge deburring for pipes and tubes; wide belt sander – Deburring of sheet metal parts; polishing machine for pipes, tubes and sheet metal parts; and a wide range of surface conditioning abrasives.

Dr Patel believes that when customers and vendors view the products and solutions physically, instead of virtually, the results far outweigh the decision-making process in terms of buying. **SD**

Source: Magic Wand Media





High-speed, Stable-processing fiber laser machine

LC VALSTER 3015 AJ G

AMNC 3

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New Hybrid Drive Retrofittable
Press Brake

HRB 1303

AMNC 3



World's First Dual Servo
Press Brake

EG 4010



AMNC 3



Hall No - 4
Booth No - B107



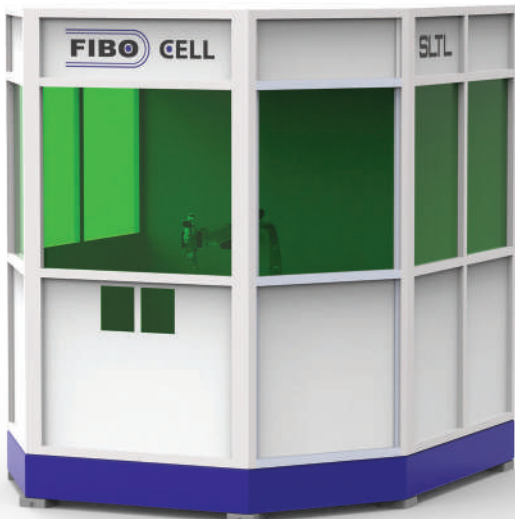
Amada (India) Pvt. Ltd.
Technical and Vocational Center
No.60, KIADB Bengaluru Aerospace Park,
Singahalli Village, Budigere Post, Bangalore,
North Taluk - 562 129, India.
Ph: 080 - 71100200



ROBOTIC FIBER LASER SOLUTIONS

Fibo Cell from SLTL

Source: SLTL Group



SLTL Group
www.SLTL.com
Hall 4, Booth B108

S LTL has created and developed robotic systems for a variety of applications such as cutting, welding, and many others, with a primary focus on lowering application time and achieving higher quality output. Devised by the Group's R&D team, Fibo Cell is a ready-to-install system that can be integrated with the production line to deliver the best results. This Robotic system has the feasibility of a 5, 7 axis movement laser head for

precise and accurate cutting. The speciality of this system gives flexibility to process any simple to complex components.

Fibo Advantages

Remote Operations: Fibo is an automation solution capable of carrying out multiple laser operations like welding, cutting, cladding, hardening, and remote welding.

Ready on production line: As the Fibo machine is usually integrated into a complete production chain, one's production philosophy has to be taken into consideration. Whether lean system, batch-oriented, robot philosophy, or limited floor space, the Group ensures to make sure the solution is tailored to specific needs.

Versatility: The laser operation is a versatile process, which can

be used to operate on a variety of materials.

Flexibility: The use of robotic automation delivers the flexibility to operate in multiple dimensions and even on complex shapes. The robot can operate in positions where normal machines cannot.

Increased productivity: The system is very precise and creates astonishing results on complex forms. Robotic automation is quick and efficient.

Safe operations: When working with laser, safety becomes a major issue. SLTL makes an extensive risk analysis and provides solid safety management of the maximum laser on time. Fibo comes with the SafeMove feature to ensure a safe area orientation, combined with the classic double walls (laser spy sensor). **SD**

PRECISION TOOLS AND VISION SYSTEMS

It's all about Precision

A ccording to Anup Verma, MD, IMTEX 2022, Precision manufacturing based on technology and AI is changing rapidly, hence IMTEX makes for a great learning platform. "It also gives value-added feedback to us, which works on providing customized solutions based on consumers' experiences," he says. Hexagon has showcased Bridge CMM; Vision; portable measuring arms; laser tracker systems; optical camera-based 3D metrology; Tesa precision measuring systems; machine tool work probe & tool setter; smart manufacturing; and software solutions.

New Launch

The company has launched two new products at IMTEX 2022.

Portable Sharing Arms: An absolute arm-scanning device (reverse engineering can be shown with this arm), which is fitted with a laser scanner. It is the world's first IP54-protected portable measuring arm for portable 3D scanning and probing anywhere. It comes with four different 3D scanning options.

Machine Tool Work Probe and Tool Setter: The IRP40.02 infrared touch probe is a robust, fast, reliable, and precise system.

Extreme accelerations, high positioning speeds, constant vibrations, hard tool changes, increased temperatures, and aggressive coolants pose no problems for Hexagon touch probes. It is compact and robust in design and caters to most sectors and industries including automotive

– passenger cars, heavy vehicles, commercial vehicles, tractors, and two-wheelers. **SD**

Hexagon Metrology (India) Pvt Ltd
www.hexagonmi.com/en-IN/
Hall 3A, Booth B111



Source: Magic Wand Media

SHEET METAL PROCESSING SOLUTIONS

Reaching Out

Source: Magic Wand Media



Lazr-Tech
www.lazr-tech.com
Hall 4, Booth A127

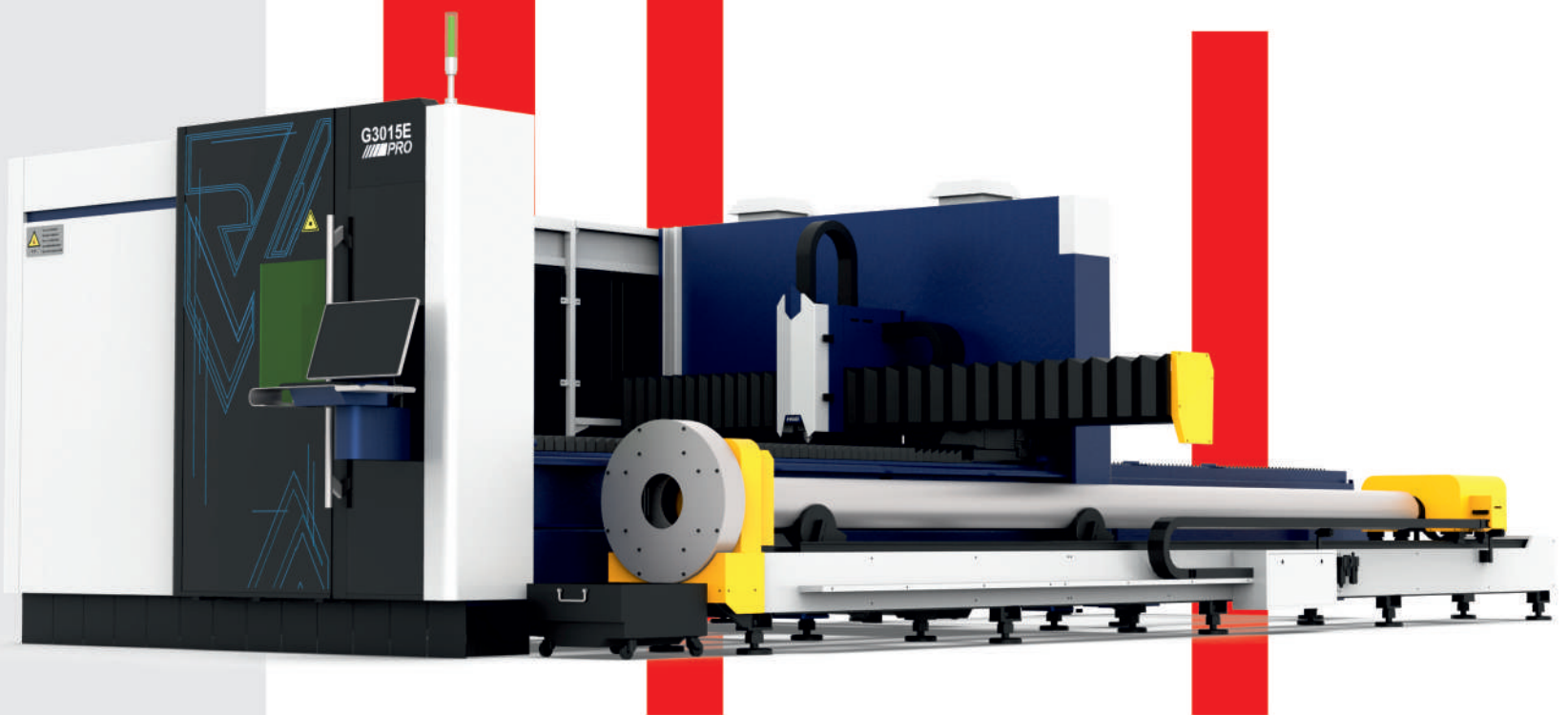
Lazr-Tech provides complete solutions for sheet metal processing and also consultancy in sheet metal plants and processing. Raj Reddy, CEO, Lazr-Tech, shares that through IMTEX, he wants to reach out to prospective customers and demonstrate the uniqueness of the company's products to them.

The product range includes Laser Cutting, Laser Welding, Punching, Panel Bending, Press Brake, Tube Cutting, Roll Forming, Akyapak Tube Bending, Dishing & Flanging, Angle Rolls, Column Boom Machines, and Metalix Nesting Software.

"At IMTEX FORMING, we are showcasing our Laser Cutting and Laser Welding machines," he informs, adding that the company's focus is on sheet metal processing industries, both private and public sectors. **SD**

One Machine With
Two **Functions** : Sheet + Tube.

HSG G3015E



POWER : 1500-6000W



LASER MARKING!! LASER CUTTING!! LASER WELDING!!
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16 - 21 JUNE 2022
HALL - 4, STALL NO
A130 & A135,
BIEC, BANGALORE

3D LASER CUTTING AND WELDING SOLUTIONS

Economical Solutions



Source: Magic Wand Media

Prima Power India has arrived at the exhibition with an entry-level sheet metal manufacturing solution that

reduces set-up time (minimum tool changes), no post process (part cleaning), no lag from punch to bend (ready to bend parts), and

automatic bending without much human interference.

Smooth operations

Prima is a leading player in 3D laser cutting and welding solutions. The company has launched BCe Smart 2020 panel bender and CS1225 laser punching combi at IMTEX 2022.

Dharmendra Nautiyal, Managing Director, Prima Power India, shares the three products being showcased at IMTEX:

Punch + laser: The punch laser combination equipped with servo-electric punching provides fast nibbling speeds and the possibility of using low RAM speeds when employing forming tools or for reducing the noise level with large-diameter tools.

Panel Bender: The BCe Smart, with its compact solution, offers a new concept that revolutionizes the traditional press brake bending thanks to an intermediate level of automation. The operator loads the blank metal sheet and unloads the bent component in a single ergonomic sequence while the machine automates all the bending cycles.

Press Brake: The eP-1030 included in the solution is the most versatile machine in the eP servo-electric range.

SD

Prima Power India Pvt Ltd
www.primapower.com
Hall 4, Booth A114

FIBER LASER CUTTING MACHINES

Focused on Quality

Shashank Jawadekar, Sales & Marketing Manager, Girme Technologies Pvt Ltd, is glad to be part of IMTEX 2022. "It's an opportunity to meet quality visitors from the industry. The event, since happening after the pandemic, is receiving a great response. We now understand why it is Asia's largest forming technology exhibition," he says. "IMTEX is an ideal place to explore products and solutions available in the market, and know end-user requirements for industrial automation, forming, and digital manufacturing," he adds. The company has a state-of-the-art facility for Fiber Laser Cutting Machines. It is displaying its latest Fiber Laser Cutting Machine,

Open Canopy, at IMTEX FORMING 2022 & Tooltech 2022. "We offer supreme-quality products which are completely manufactured, assembled, and customized as per requirements at our factory based in Pune."

Open Canopy Features

Open Canopy, with a Straight Pallet Changer, boasts a robust design with supreme quality components, proficient laser cutting operation, high accuracy with sheet auto-detection, stress-relieved and grounded bed, enhanced usability with a wide range of applications, and availability in various sizes.

Girme Technologies Pvt Ltd
www.girmetechnologies.com
Hall 4, Booth B113



Source: Magic Wand Media

KNOWLEDGE SHARING - JAGRUTI

Rekindling the Flame



Source: IMTMA

Indian Machine Tool Manufacturers' Association (IMTMA) Youth Programme 'Jagruti' is an initiative to familiarize budding engineers from various institutions in India with the latest technologies and trends in the machine tool industry, which is organized during the IMTEX exhibition every year.

In keeping with the tradition, the 14th edition of the programme was held at IMTMA Technology Centre on June 17-18, 2022, as a part of IMTEX FORMING 2022, along with Tooltech and Digital Manufacturing.

Twelve engineering students from six colleges – Atria Institute of Technology; BMS Institute of Technology and Management; Indian Institute of Technology, Chennai; Raja Rajeswari College of Engineering; Acharya Institute of Technology; and Jain University participated in the programme.

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MONITORING SYSTEMS

Failure Diagnosis with Brankamp X7

Brankamp monitoring systems from Marposs can detect a wide range of typical process faults caused by tools, material, lubrication, or transfer.

Failure messages that have been displayed to the machine operator by the devices so far are usually limited to the indication of the monitoring methods, e.g., maximum force, envelope or trend, etc., the limits that have been violated, and the corresponding sensor number, which often corresponds to the affected stage of the machine (e.g., Maximum Force). The determination and allocation of the cause and type of malfunction that occurred, the localization of the fault, and the determination of the damaged tool parts are then left to the machine operator. Depending on their level of training, the complexity of the tool, and the process fault that has occurred, the fault-finding process will take considerable time.

Detecting Signal Changes

For this application, the Brankamp X7 monitoring system provides a suitable method to detect signal changes automatically and assign them to a certain failure cause and description. When a process fault occurs for the first time, the operator determines the cause, the fault location, and the affected tool parts. The operator enters his analysis result into the on-screen keyboard of the unit (e.g., Punch chipping in station 4, change part no. 1234567), and the pattern recognition system stores his fault description together with the descriptive characteristics

in a user-programmable database. If the same or a similar process disturbance occurs again during subsequent production, the fault characteristics stored in the database are checked for similarity with the current fault case. If the characteristics match sufficiently, the corresponding fault diagnosis is displayed. If there is not a sufficient match to already stored fault cases, a new fault class must be created. If the operator confirms the reported failure cause, the previous error describing characteristics is updated.

In the case of the process faults to be classified, there are cases with continuous characteristics (e.g. 'variable size of a punch breakage in stage 4') and cases with a constant fault (e.g. 'part is lost during transport to stage 3').

The size of a punch breakage is variable, and so are the associated signal change of the force signal and the resulting failure characteristics. All process disturbances belong to the same defect class 'Punch breakage stage 4', despite scattering characteristics. These characteristics require wider class limits than, for example, the always identical error 'Part lost in stage 3', which leads to reproducible, identical signal deviations and thus very narrow characteristic limits.

The diagnostic method presented provides an effective tool for reducing downtime in the case of increasingly complex tools with many different causes of malfunctions. The more comprehensive and meaningful the failure description that is entered into the X7's knowledge database by the operator, the more helpful the information becomes in correctly diagnosing the process fault. The expert knowledge collected in the database then provides even less qualified operators with well-founded information for rapid troubleshooting. A reduction of repair and downtimes of the machine as a tool for cost reduction will be achieved. **SD**

Source: Marposs India Pvt Ltd



Marposs India Pvt Ltd
www.marposs.com
Hall 3A, Booth B103

PROFILE CUTTING MACHINES

Ahead of the Game



Therm-X Industrial Equipments Pvt Ltd
www.therm-x.in
Hall 2A, Booth B115

Source: Magic Wand Media

Therm-X Industrial Equipments has partnered with the best overseas companies to bring its state-of-the-art profile cutting machines. It provides top-notch equipment and services to steel fabricating companies. In this edition of IMTEX FORMING, it is displaying XCUT CNC gas/plasma profile cutting machines manufactured in technical collaboration with TFC, Czech Republic; plasma cutting machines from GYS, France; beveling machines manufactured by NKO, Czech Republic; induction heaters from Dawell, Czech Republic; welding machines from EWM, Germany; and automated welding and cutting from Koreaweld, South Korea.

Its CNC profile cutting machines are from Pierce Control Automation, Czech Republic. Mechanized plasma power sources and torch height controls from Hypertherm, USA; retrofits for profile cutting machines from Pierce/Burny, USA; nesting software from Hypertherm/Sigma NEST, USA; and industrial ventilation products in technical collaboration with AER Service, Italy.

New Launch

The company has launched state-of-the-art technology in CNC gas/plasma profile cutting – TFC XCUT, made in India in technical collaboration. It is also displaying the latest XQ series of MIG and TIG welding machines by EWM Germany. **SD**

MODULAR COMPRESSED AIR PIPING SYSTEMS

Meeting Global Standards

To overcome the common problems with conventional piping systems like rusting, leakages and pressure drop, ShiftAir Pneumatics has introduced all aluminum alloy pipes and fittings that are completely corrosion-free.

Kishor Kumar Kalita, Head, Sales & Marketing, ShiftAir India, says, "We design and manufacture locally and are confident about our advantages in terms of logistics and price positioning." Incidentally, ShiftAir is the first-ever Indian piping company to use all aluminum clamp type connection technology.

For Varied Requirements

ShiftAir India caters to a range of sizes of aluminum alloy modular aluminum piping systems to meet varied requirements of compressed air distribution systems from small to large scale across all spectrums of the industry. "We are the pioneer

company in India that adopts all metallic and clamp-type connection technologies, irrespective of the sizes," says Kalita.

This technology ensures the highest degree of reliability and safety of piping systems under different temperatures – be it subzero, ambient or hot and humid, etc. The company takes pride in the fact that its products can meet global standards.

ShiftAir is keen to connect with visitors from the automotive, textiles, electronics, and engineering sectors. **SD**



ShiftAir Pneumatics
www.shiftairindia.com
Hall 3A, C115

Source: Magic Wand Media

SHEET METAL CUTTING

Cutting with Air

The choice of the best assist gas for laser cutting depends on the material to be cut, its thickness, the required cutting speed, and the final application of the component. Pierandrea Bello, Product Manager for Laser Technologies, Salvagnini, talks about the state-of-the-art cutting with compressed air.

Source: Salvagnini Machinery India Pvt Ltd



Salvagnini Machinery India Pvt Ltd
www.salvagninigroup.com
Hall 4, Booth B102

The two Salvagnini laser product lines are both based on fiber technology, and are natively set up for cutting with nitrogen and oxygen: L3, a versatile system intended for transversal use, whatever the applications, materials and thicknesses, and L5, a highly performing, high-dynamic system for thin, and medium-thin material. But Salvagnini was also one of the first companies to believe and invest in cutting with compressed air, which is bringing very impressive results, especially in terms of running costs. "Fiber sources have revolutionized the items that make up the hourly cost of laser systems and the

impact that each of these has," Bello explains. "Their high efficiency has drastically reduced energy consumption, while their intrinsic features have reduced the costs of routine and extraordinary maintenance. The faster cutting speed has also reduced processing times, and, therefore, the cost per part. The cost of the assist gas was one of the few items that remained unchanged."

Compressed Air as an Assist Gas

It is fundamental to remember that cutting with compressed air is cheaper than with nitrogen, and this is all the truer when the cost per m3 of nitrogen increases: the higher the

cost of nitrogen, the more cost-effective cutting with compressed air is. It is, therefore, natural that the use of compressed air as an assist gas is one of the most interesting hot topics in laser cutting. The evolution of ACUT, the Salvagnini option that extends the possibilities of the L3 and L5 and allows cutting with appropriately treated compressed air, has been rapid: depending on the source power, it can now cut thicknesses of up to 20 mm. The market response has been more than positive: over 95 percent of laser systems supplied in 2021 were equipped with this option. Without forgetting APM, the compact, turnkey device that is complemen-

tary to ACUT and connects directly to the pneumatic supply, to work in the best possible conditions. "The trend of cutting with compressed air is growing significantly," Bello continues. "Between September 2020 and September 2021, compressed air was used to cut 40 percent of all sheet metal, using 29 percent of the total effective production time. In the preceding 12 months, these values were respectively 31 percent and 22 percent, while between September 2018 and September 2019 they were 27 percent and 18 percent. This means that in 2 years, compressed air has increased its share of total use by over 10 percent, both in terms of the number of sheets cut and the actual production time. We believe this evolution has come about partly thanks to the development of ACUT, and we are convinced that these numbers are destined to grow more and more. Above all at the expense of nitrogen." "In the HVAC world, 92 percent of sheet metal is thin," Bello explains. "The reference material is galvanized, and reaches a share of 78 percent of the total. This is the ideal combination for compressed air, which in this sector has a 57 percent share of the total. In our experience, we can say that compressed air is the most common assist gas in the HVAC world." For this reason, Salvagnini is working on several developments that will soon be available to provide cutting with compressed air with a whole series of intelligent functions that are already available for other technologies. **SD**

DIE LOGISTICS SYSTEM

Dilos Truck and Buggy from GÜthle

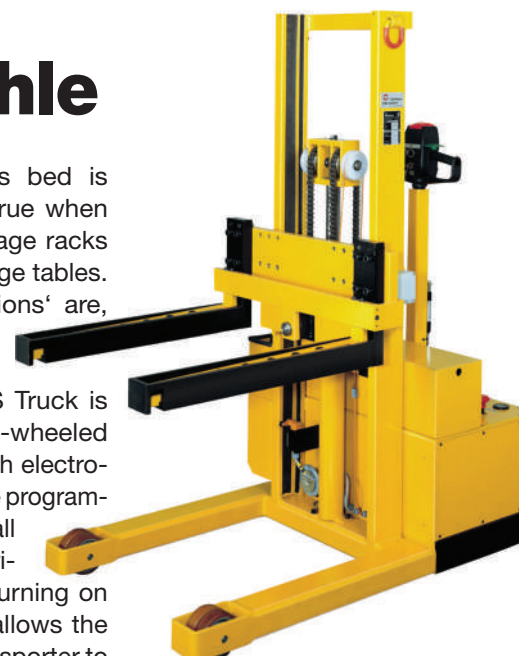
The trademark DILOS stands for DIE LOGISTICS SYSTEM. This logistics system for dies, devised by GÜTHLE, embraces the handling, clamping, maintenance, and storage of dies. They have been developed especially to meet the high demands of pressworking shops. Emphasis has been placed on safety functions, in addition to speed and ergonomics.

Other Features

The DILOS Buggy is used for dies weighing 20 kN to 30 kN and the DILOS Truck for dies 40 weighing kN to 250 kN. The heavy weight of

the dies places extraordinary demands on the design of the DILOS TRUCK and DILOS BUGGY. The dimensioning of the components and their construction is accordingly robust. DILOS Truck and Buggy are based on a basic, modular design. The DILOS construction kit with its series-proven components offers many functions that can be combined as needed. The front-loading technology with the adjustable fork height permits safe changing of the dies at different presses with different heights of press bed. For safety reasons, a firm connection between the DILOS TRUCK or

BUGGY and the press bed is essential. This is also true when transferring dies to storage racks or to servicing or pre stage tables. All these 'docking stations' are, therefore, fitted with a coupling bar. The body of the DILOS Truck is constructed as a three-wheeled sub frame, and fitted with electronic all-wheel steering. The program-controlled swiveling of all three wheels permits various movements, even turning on the spot. This mobility allows the DILOS die-changing transporter to be used when space in front of the presses is cramped, and in narrow aisles in the store. **SD**



Guthle Pressenspannen GmbH
www.guthle.com
Hall 3A, Booth E103

Source: Guthle Pressenspannen GmbH

Glimpses @ IMTEX 2022



METAL FORMING SOLUTIONS

With Array of Solutions



Kriti Tools Pvt Ltd
www.kriti-group.com
Hall 2A, Booth B109

Sadeesh Premananth, Managing Director, Kriti Tools Pvt Ltd, is elated to be participating in IMTEX and deems it as one of the most organized events. Since it is happening after a long period of time, he expects a peak in footfall this year. "We are eager to meet our customers and present new engineering solutions to the Indian market," he says. The company's focus audience at the event comprises representatives from the automotive, aerospace (aircraft and space), white goods, railways, construction, and energy sectors.

On the Showcase

Kriti Tools is showcasing a wide variety of products, including Stamping presses; Hot and cold forging machines; Press brakes,

shears and laser cutting machines; Cut-to-length and slitting lines; Coil feeding equipment; Rotary swaging machines; Press automation; Roll forming; and Tooling. It also offers new turnkey solutions as well as used and rebuilt machines. In addition to machines for sheet stretch forming, profile stretch forming, elastoforming, hot forming, superplastic forming, linear friction welding of aerospace material including titanium inconel etc., the company has also added a range of technologies for the aerospace sector to its portfolio. This includes: Hot and cold metal forming; Mirror milling machines; Composite engineering; Automatic riveting; Electron beam welding; Electron beam additive manufacturing; and Seam welding. **SD**

MOTION CONTROL PRODUCTS

Offering Value-Added Products



HIWIN Technologies Corporation
www.hiwin.tw
Hall 4, Booth A112

Taiwan-based HIWIN Corporation has come up with solutions for Industry 4.0 which is now a necessity for manufacturing companies. Simon Liao, Senior Sales Manager, HIWIN, says, "We hope our customers see the value we bring to the table and how our products will allow them to compete internationally." At the exhibition, the company is exhibiting i4.0BS, which is the first intelligent 4.0 ballscrew in the world. It combines a multifunction sensor to detect vibration and temperature with a professional algorithm. Users can monitor the status of each machine in real-time from the APP to arrange maintenance schedules. It can avoid machines' unexpected shutdown, and achieve high machine utilization, energy-saving, and environmental protection. It has features like life prediction, vibration diag-

nosis, smart lubrication, and thermal diagnosis allowing OEM and users to be able to monitor the conditions of the ballscrew and prevent unexpected shutdowns.

New Things

At the trade fair, visitors get to see the company's HMS, an integrated torque motor with a ballscrew providing high torque during transmission, and a torque motor rotary table, with an integrated torque motor, with a non-contact mechanism, providing zero-backlash, high precision, and accuracy. Interestingly, HIWIN also offers a wide range of medical robots based on its core technology of precision motion control. The robotic solutions are developed to assist medical practitioners in repetitive tasks and ease their daily burden, including rehabilitation robots, and surgical robotic arms. **SD**

VISITOR VIEWS



Source: Magic Wand Media

» I am a regular visitor to IMTEX from Mumbai. I am from the design background and need scanners and other measuring instruments. With technology changing at an extremely rapid pace, this gap of over two years has brought a sea change in the instruments. It was interesting to explore technologies supporting Reverse Engineering, something that interests me. A scanning machine has appealed to me at the event, in which I will be investing soon. «

Manish G Kolge
Partner
Shubham Engineering Services
Mumbai



Source: Magic Wand Media

» We have come with the purpose of interacting with the suppliers of sheet metals and robotic welding machines. Exhaust systems for welding stations and fumes are what we are looking for. We have connected with companies including SIL (Laser) and Fine Protection System and am satisfied with the information gathered. IMTEX is an ideal place to procure the latest technologies from the world over and a great source of information. There are already definite plans for us to return to the show in January 2023. «

Dharmendra Pal Singh
Senior Manager, Production Bustrunking Division
C&S Electric Ltd
Haridwar, Uttarakhand

CASTOR WHEELS

Aiming High

Source: Magic Wand Media



Royal Tech Engineers
www.comfortcastors.com
Hall 3A, Booth F108

Comfort Castors (a brand of Royal Tech Engineers) is one of India's largest castor wheel manufacturers and distributors of castor wheels. The Gurugram-based company has participated expecting a more significant response from its prospective clients. "We expect even better results this time due to increased demand from all the sectors. Our objective, from this edition, is to capture an even greater share of the Indian automotive industry," says Rahul Gupta, CEO, Comfort Castors.

Best on Display

The company has exhibited some of its castor wheel models that are exported across the globe to regions like the USA, Europe, and Australia. Prominent castors on display include scaffolding castors, rubbish bin castors, maintenance-free castors, and super heavy-duty castors.

"We have launched our super heavy duty range of castors in this edition. These castors come with a forged top plate and swivel ring, making it practically impossible to fail. These castors are ideally suited for the heavy running in the automotive industry," he informs.

The company has also showcased rubbish bin castors, EN 840-5 approved by the European agency. In addition, a new range of EN 1004-approved scaffolding castors for the Construction industry is also being shown. **SD**

SHEET METAL MACHINES

Metal Shaping Efficiency

Source: Magic Wand Media



HACO Machinery Pvt Ltd
www.haco.com
Hall 4, Booth B106

With 50 years of experience and a wide range of sheet metal machinery, HACO aims to build a new customer base and upgrade existing customer relationships at IMTEX by presenting live product demos and displays/videos. "We have a strong team of sales and service persons to give answers to the customers' queries," comments Nirjhar Nag, DGM – Sales & Marketing, HACO India.

NC Hydraulic Shearing machine for metal cutting and CNC Hydraulic Press Brake for metal bending, are on display. NC Hydraulic Shearing Machines are

guillotine shears designed and developed in Belgium but manufactured in India for low-to-medium sheet metal production environments. These machines have adjustable rake angles and interchangeable blades with four cutting edges in each blade.

CNC Hydraulic Press Brakes are developed in Belgium with ROBOSOFT CNC controls. ROBOSOFT is the high-tech subsidiary of the HACO Group. These faster machines have imported hydraulic pumps, valve manifolds, and oil seals for trouble-free operation year after year. Both machines are low-maintenance and cost-effective. All machines are of European Design/Technology with CE compliance. Nag further adds, "We would like to meet people from the Metal Fabrication sector. We manufacture machines for light sheet metal fabrication as thin as 0.5 mm to heavy plate fabrication as thick as 25.0 mm. We have supplied machines to Indian Railways, Indian Defence, and Indian Space Research Organisation." **SD**



Make it possible



International Forming Technology Exhibition

Concurrent Shows



18 - 23 January 2024, Bengaluru, India

Organiser



Venue



www.imtex.in

Source: Magic Wand Media



Numalliance
www.numalliance.com
Hall 4, Booth B121

WIRE, TUBE, AND FLATSTOCK MACHINES

Quality as Core Focus

Numalliance, a leading manufacturer of productivity solutions for wire, tube, and flatstock bending, expects to leverage IMTEX for wide and increased adoption of its flexible, proven high technology machines. The company's displays at IMTEX FORMING 2022 include its best-selling Robomac range of wire benders, along with Silfax, Eaton Leonard, and Addison McKee range of tube bending and end forming machines, which are reputed in the aerospace industry. "We have well-known customers like TATA Advanced Systems, Hindustan Aeronautics Ltd, Airbus, and Boeing who have been using these machines for many years," comments Keshav Malhotra, Sales Manager, Numalliance. "These machines are high quality, precise, and meet the strict manufacturing needs of this

sector where producing part quality needs to be high as the components are critical," he adds.

Catering EVs

For the e-mobility sector and EV manufacturing, the company presents its machine range dedicated to copper bending and forming. "Our Numaslide machine is specially designed for Hairpin manufacturing used in EV motors. Leading EV manufacturers have chosen this machine for their automated EV motor manufacturing line," he reveals. "Another important component is Busbar, and for manufacturing this component, we present our FPX Busbar machine, especially suited for 3D bending copper strip material with or without insulation for use in EVs and electric circuitry," adds Malhotra. **SD**



Innovative Industrial Automations Pvt Ltd
www.iiapl.co.in
Hall 4, Booth C125

ROLL FORMING MACHINERY

Breaking the Mold

Sankanda Kumar, Director, Innovative Industrial Automations Pvt Ltd, regards IMTEX as the best exhibition to showcase machinery. "We expect more and more sheet metal components manufacturers to visit and witness new machinery and technologies," he adds.

Customization is Key

The company manufactures roll forming machinery and powder coating systems in India. It is exhibiting roll forming machinery here at the event. "We customize machinery as per specific customer needs. We design and manufacture these products in India for the market,

and they are very competitive compared to the international brands. The customers get good quality made in India machinery," he adds. He informs that the company can supply machinery to any industry sector that needs roll formed sections, powder coating systems, and vertical powder coating systems. "In India, there are not many companies who can supply roll forming machinery with closed profile at a competitive price. We can provide solutions for any vertical powder-coated parts. We are one of the few suppliers in the world who can supply this kind of system," he adds. **SD**

Scan the QR code to read
IMTEX FORMING 2022 Show Dailies



MATERIAL HANDLING EQUIPMENT

Giving a Good Lift



MHE Serve
www.mheserve.com
Hall 3A, Booth B113

As a well-known brand manufacturing material handling equipment in Bengaluru, MHE Serve has a comprehensive range to offer. The company works on a combi-

nation of manpower and technology and, thus, has the capacity to provide various value-added services to clients whenever required. At any time, it is equipped with enough inventory to offer spare parts for replacement purposes. Jaypal C, Proprietor, MHE Serve, is convinced that using the original parts ensures longevity, higher production, and minimum downtime. Also, these original spares are supplied at the most competitive prices.

Holding it High

As a material handling equipment manufacturing company, it offers a wide range of machinery for

shifting, hauling, lifting, and stacking purposes. The equipment showcased at IMTEX includes a fully electric stacker, semi-electric stacker, hydraulic hand stacker, weighing scale, hand pallet truck, and prototype demo pieces of goods lift, dock leveler, and scissor lift. The firm caters to companies in the industries including automotive, pharmaceutical, engineering, food industry, IT, printing & packaging, transport, logistics, tannery and chemicals. Jaypal is keen to meet industry personnel across sectors as everyone who manufactures uses material handling equipment. **SD**

Source: Magic Wand Media

ADDITIVE MANUFACTURING

Shaping the Future

Imaginarium, a leader in 3D printing and advanced manufacturing technology, is here at IMTEX to identify its current and potential clients and their needs, and work with them to define a manufacturing flow.

There are two aspects to Imaginarium's participation at IMTEX this year, shares Samkitt Shah, Business Head, Imaginarium Solutions (I) Pvt Ltd, "The first and most important one is to create awareness and importance of Additive Manufacturing, prototyping, and manufacturing end-use parts in today's fast-growing development cycles. Secondly, to identify and converse with professionals wanting to learn or use our products and services,

and see how we can help them in their applications." With over 15 years of experience in computer-aided manufacturing, Imaginarium has always been a user of technology first. Having used 3D printers consistently, it understands how different printers from its global partners can boost manufacturing workflow and save costs and time.

On the Showcase

Imaginarium is a leader in 3D printing and advanced manufacturing technology where designs take shape and ideas come to life. The company is committed to seamlessly transforming ideas into reality and creating things that make a difference in various industries. "We are exhibiting Solutions, an arm of Imaginarium with global partners, that brings you the best 3D Printing for maximum

business impact. We deliver a perfect blend of 3D Printers, materials, and application expertise designed for functional prototypes, complex designs, and production components. Our experts are here to assist in selecting the ideal solution, even for the most intricate design and production challenges. We identify our clients' needs and work with them to define a manufacturing flow," Shah shares.

Imaginarium has always been passionate about additive manufacturing and has demonstrated its powerful applications in multiple sectors such as Automotive, Aerospace, Defence, Advanced Manufacturing, Tool and Die and many more. It leverages its expertise and experience to provide holistic and end-to-end 3D Printing solutions in the Desktop and Industrial space.



Source: Imaginarium Solutions (I) Pvt Ltd

» We deliver a perfect blend of 3D printers, materials, and application expertise designed for functional prototypes, complex designs, and production components. Our experts are here to assist in selecting the ideal solution, even for the most intricate design and production challenges.«

Samkitt Shah
Business Head
Imaginarium Solutions (I) Pvt Ltd

Imaginarium Solutions (I) Pvt Ltd
www.imaginarium.io
Hall 3A, Booth E112



Source: Magic Wand Media

LINEAR MOTION SOLUTIONS

Set in Motion

Vora Industries, under a strong brand Kreymayer, has been meeting the needs of linear motion solutions with high-quality, long-life products. Stating IMTEX has been a great aggregator of solution seekers and providers, Ashish Vora, Managing Partner, Vora Industries, adds, "Our expectations from IMTEX is to help promote our products and connect us with our target market through better footfall and the right visibility."

The company showcases its Racks, Pinions, and Sprockets at the event. Straight and Helical Racks from 0.5-16 Module with length up to 4 mt; Straight and Helical Pinion from 0.5-16 Module with outer dia up to 1.5 mt; and Simplex, Duplex, Triplex, and Chain Sprockets from 0.25-1.5 inch with outer dia up to 600 mm, are available. At the event, the company unveils a new rack called Ultra High Molecular Racks, or UHMW – RACKS, for application in the Conveyor Wear Strips Guide Rails, which are used in a variety of industries. It has abrasion and corrosion resistance, a low coefficient of friction, high-impact strength, is lightweight and easy to install, rust free, and has excellent noise reduction features.

Expecting to meet similar companies that could use its products as spares in their machines, Vora says, "Industries seeking Made to Order (MTO), Made to Stock (MTS), or client-specific Made to Stock with captive capacity support can work with us. This helps our clients get consistent design and quality at shorter lead times." SD

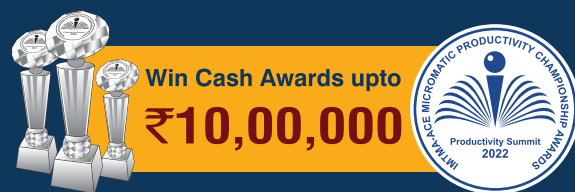
Vora Industries
www.kreymayer.com
Hall 4, Booth A129



Source: Magic Wand Media

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Schmalz India Pvt Ltd
www.schmalz.com
Hall 3A, Booth A102

“IMTEX is an important show for us as it always gives us the most positive leads from all industrial segments,” says Saju Mathew Jacob, General Manager – Projects, Schmalz India Pvt Ltd. The company is into products that are suitable for Industry 4.0, which is the latest trend in the industry. “Our Vacuum Generators, Grippers, and Devices for System Monitoring are becoming smart and are equipped with sensors so that they can communicate and pass the real-time data for further processing. “Additionally, using Schmalz products saves energy and contributes to the reduction of the carbon footprint,” he adds.

The company has launched its new product Jumbo Flex Picker for the logistics industry, which is the most flexible and mobile handling equipment. “It can be used in logistics/warehouses/airports etc., and can handle carton boxes, sacks, drums, barrels, as different grippers can be used with one equipment due to our quick-change technology,” informs Jacob. “We are fortunate that all our target industry customers from FMCG, wood, metal, chemical, aerospace, automation, robotics, composites, glass, and packaging are here visiting the show,” he adds.

SD

AATMANIRBHAR BHARAT

Staying Self-reliant



Grind Master Machines Pvt Ltd
www.grindmaster.co.in
Hall 2A, Booth B116

IMTEX, for the first time, has organized the Aatmanirbhar Bharat pavilion that is encouraging several companies to display their indigenous offerings. Mohini Kelkar, Director, Grind Master Machines, says, “Adoption of technology will be key to making India self-reliant. One needs the right equipment to make products of superior quality and stay zero-defect. Scale too is important as it will make an impact on the affordability of the equipment and finally the cost of the product.”

Home-made

Many steps are being taken to ensure the ease of doing business. Kelkar feels that some schemes are cluster-focussed. She would

prefer that the government bring in more schemes where small units can quickly scale up in terms of technology upgradation that promise exports, such as foundries. Grind Master provides robotic fettling technology that can help the foundries make castings faster and export them in bigger numbers.

The company has a deburring technology that helps achieve the right deburring results needed for the export of auto parts and critical parts of hydraulics, aerospace, etc.

Kelkar believes that the deburring process has been neglected and not looked at keenly by most manufacturing companies. This affects the quality of products, especially if they are being imported.

SD

INDUSTRY-ACADEMIA

Hail the Bright Minds



Participants of i2 Pavilion with industry stalwarts at IMTEX FORMING 2022

MTMA, in its endeavor to forge a strong connection between the Industry and Academia, offers the platform of the i2 Pavilion to the Indian Academic / R&D Institutions to showcase their R&D capabilities in the metalworking field at IMTEX, every year.

This year’s winners have been chosen and honored with awards:

CMR Institute of Technology, Bangalore, won the First Prize for: Additive Manufacturing for Medical Implants

Vemana Institute of Technology, Bangalore, won the second prize for: Dynamic Behavior of Materials

KLS Gogte College, Belagavi, bagged the third prize for: Joining of 3D printed parts by FSW technique to overcome the bed size limitation of an FDM 3D printer applied to UAV wings

Dr Vishwanath Karad MIT World Peace University, Pune, won a Consolation Prize for: Micro Forming Analysis of Aerospace Materials

Indian Institute of Technology, Bombay, won a Consolation Prize for: Advanced Manufacturing



First Prize Winners



Second Prize Winners



Third Prize Winners

INDUSTRY DELEGATES

"Young entrepreneurs must visit IMTEX"



Vikram S Kasbekar, Executive Director, Operations (Plants), HeroMoto Corp, is making a short visit to IMTEX 2022. He is glad that he could make the most of it and found the machine and technology suppliers he was looking for. Expressing his view on the trade fair, he said that IMTEX 2022 had successfully incorporated

cutting-edge technologies. "Today many Indian companies, including startups, have started exporting their products. Thus, it is no longer limited to designing or developing best-in-class products, but they have to be competitive to be accepted globally. Thus, information on the latest manufacturing technologies is very important, and IMTEX is the perfect platform to source that," he added.

"India can be a hub for manufacturing competitive products. Indian startups have started putting their best front forward and are doing their R&D work here. However, they need to be at par with the global standards. IMTEX 2022 has created opportunities for all," Kasbekar pointed out.

Vikram S Kasbekar
Executive Director, Operations (Plants)
HeroMoto Corp

Relevance to the Watch Industry

The Chief Manufacturing Officer of the Watches & Wearables Division of Titan Company Ltd, Rajagopalan R, visited IMTEX 2022 yesterday. He is just back from an exhibition for the watch industry in Geneva. Comparing that with IMTEX, he opined, "I find all the technologies that I witnessed at the Geneva exhibition here at IMTEX. We are on par with them. I am proud to say that a few technologies being shown here are better than those displayed there."

"I came expecting to see the latest technologies relevant to our industries, and I am delighted to see that things are already in action and there is an array of cutting-edge offerings to choose from," he added.

"IMTEX 2022 is doing an excellent job in exhibiting technologies including 3D printing, laser cutting, automation etc., which are highly relevant to the latest forming industry. Applications of Industry 4.0 have also been nicely demonstrated. A lot of takeaways from the trade fair. The way it has been organized is praiseworthy," he added further.

Rajagopalan R
Chief Manufacturing Officer
Titan Company Ltd
Watches & Wearables



LINEAR MOTION COMPONENTS

"It's an amazing experience to be at IMTEX"

» This is our maiden participation in IMTEX, and the response so far has been extremely good. The visitors are coming not just from the metal forming sector but from across the industries. Professionals from the metal cutting and medical sectors have also visited and shown interest in our products. It's an amazing experience to physically be at IMTEX, interact face to face with customers, show your machines and explain their features to them. It's only in the in-person events that you can explain a machine and its benefits at length. Digital shows have limitations.«

Ajit Patil, Managing Director, Ewellix India Pvt Ltd



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