SHOWDAILY™

The Daily News of IMTEX FORMING 2024

Organiser

Indian Machine Tool Manufacturers' Association

IMTEX FORMING 2024

International Forming Technology Exhibition

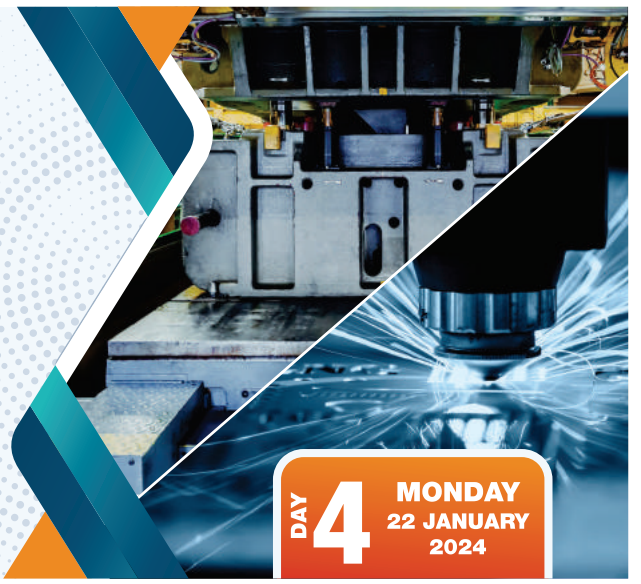
19 - 23 JANUARY 2024, BIEC, BENGALURU

Concurrent Shows

Tooltech 2024 — International Exhibition of Dies & Moulds, Forming Tools, Machine Accessories, Metrology and CAD / CAM

DIGITAL MANUFACTURING — International Exhibition on Digital Manufacturing Technology

WELDEXPO — Exhibition for Welding, Cutting & Joining | 2024 — In association with



HSG
Cutting | Bending | Welding | Automation

LASER TECHNOLOGIES™

Unlocking a New Era of Laser Advancements:
HSG Laser Co. Partnership and 'Laser Gurukul' Initiative

Laser Technologies Pvt. Ltd. stands at the forefront of revolutionizing laser technology in India through strategic collaborations and visionary leadership. One such partnership with HSG Laser Co. Ltd. an esteemed Chinese enterprise established in 2006; brings high-end laser-cutting machinery to the country, amplifying India's access to cutting-edge metal forming equipment.

HSG Laser Co. Ltd. is a global high-tech enterprise renowned for its metal-forming equipment solutions. With a global outreach spanning over 100 countries and regions, HSG Laser stands at the forefront, boasting 13 branches and 30+ global service outlets. The company's relentless pursuit of innovation is evident through its evolution from medium to low power laser cutting machines to intelligent metal forming equipments, covering entire industrial chains. Backed by 412 authorized patents, 94 software copyrights, and certifications such as ISO, EU CE, EU RoHS, and American FDA. HSG Laser epitomizes excellence in quality and technology.

In line with its vision to democratize access to laser technology, Laser Technologies Pvt. Ltd. launches 'Laser Gurukul' to democratize laser technology access. This initiative aims to establish local manufacturing units and upskill individuals in India, bridging the skill gap. 'Laser Gurukul' fosters a skilled workforce by offering comprehensive programs, democratizing advanced technology access, and enabling diverse backgrounds to harness laser technology's potential.

By amalgamating local manufacturing capabilities and skill enhancement initiatives, LTPL endeavors to empower industries and individuals, ensuring that the benefits of cutting-edge laser technology are accessible to all.

At the helm of Laser Technologies Pvt. Ltd. are visionaries driving the future of Laser Solutions

Mr. Rakesh Agarwal,
MD

Founder and visionary behind Laser Tech's inception in 2011, marked by the groundbreaking "Laser Tech 2010" exhibition.

Mr. Rana Pratap Singh,
VP - Sales

Drives strategic growth, expanding customer base and market reach.

Ms. Pankti Agarwal,
Director-Operations

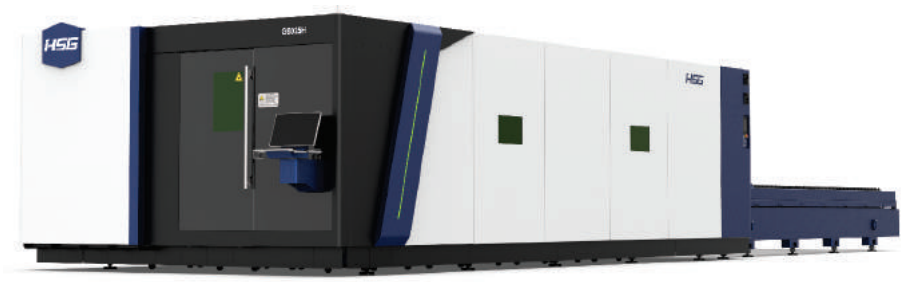
Leads operational excellence, recognized as a top businesswoman by CEO Magazine in 2020.

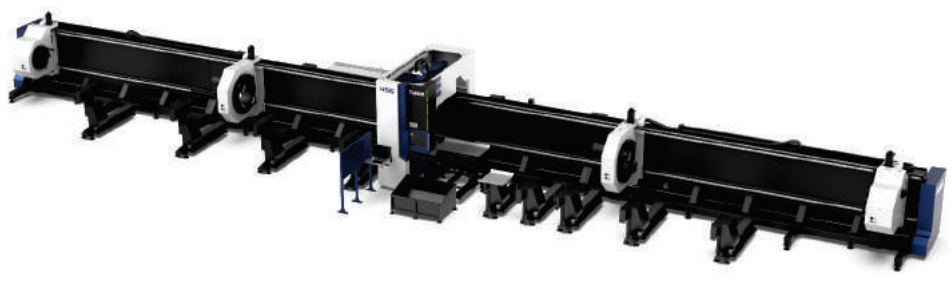
Call: (+91) 86574 12551 | info@lasertechnologies.co.in | www.lasertechnologies.co.in

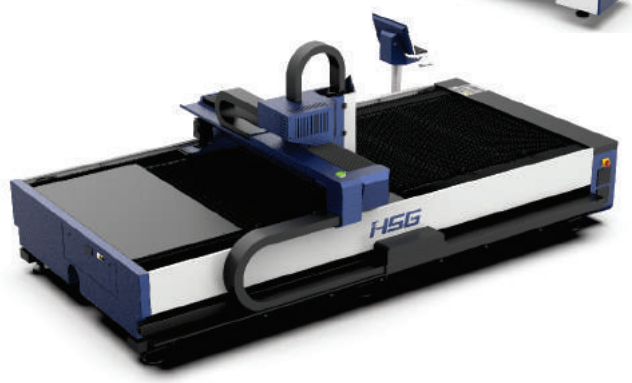
HSG
Cutting | Bending | Welding | Automation

LASER TECHNOLOGIES™

Since its establishment in 2011, Laser Technologies Pvt. Ltd. has remained at the forefront of designing and supplying state-of-the-art Laser Cutting Machines tailored for a wide spectrum of industries. Throughout the years, LTPL's solid commitment to excellence, innovation, and client satisfaction has cemented its status as a reliable partner across diverse sectors. By consistently delivering superior products and pioneering advancements, the company has adeptly met the precise demands of esteemed clients in sectors spanning Manufacturing, Automotive, Aerospace, Electronics, Metal Fabrication, Medical Devices and more.







EXPERIENCE THE FUTURE OF LASER TECHNOLOGY WITH US!

> Great product, runs fast with Precision and the support is excellent.
>
> **Mr. Nirmal Panda**
> (Technical Manager – NFTDC, Hyderabad)

> The work was beyond our expectations in terms of cost savings and the speed of delivery with which we accomplished our goals.
>
> **Mr. Amrit Chawla**
> (Owner-Pebble Innovation, Jalandhar)

> It's been a pleasure working with the Laser Technologies Team. All 3 Laser Machines are working in excellent condition.
>
> **Mr. Shekhar Baid**
> (Owner-Marchead Info, Kolkata)

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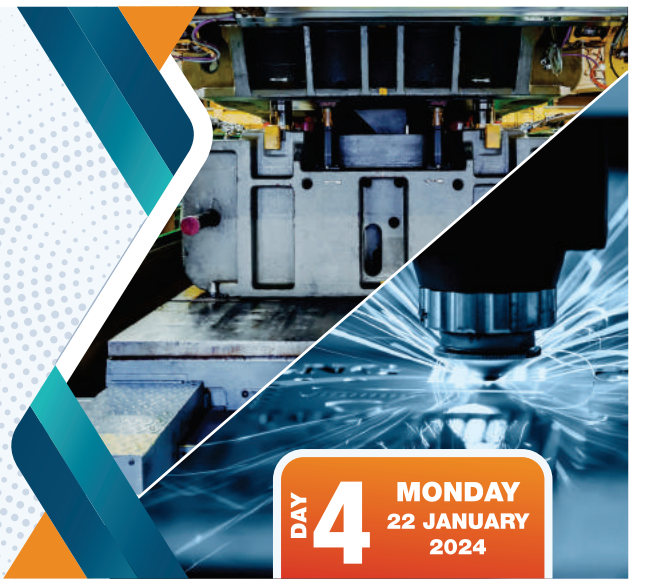
DAY 4 MONDAY 22 JANUARY 2024



TECHNOLOGIES THAT MATTER

Cutting-Edge Laser Solutions for EVs

Meera Lasers, one of India's leading laser integrators, is highlighting its innovative solutions for EVs, especially cutting-edge solutions for battery pack welding and manufacturing, at IMTEX FORMING 2024 this year.

Source: Magic Wand Media

Meera Laser Solutions Pvt Ltd
www.meeralasers.com
Hall & Stall: 4/A141

This year at IMTEX FORMING, Meera Lasers, one of India's leading Laser integrators, is highlighting its state-of-the-art battery laser welding machines.

A Sateesh Kumar, Managing Director, Meera Lasers, says, "At the trade fair, visitors can explore a diverse range of our battery packs, encompassing both prismatic and cylindrical designs. The intricacies of these designs showcase the adaptability and versatility of our welding machines, which play a pivotal role in ensuring the structural integrity and optimal performance of the battery packs."

"Our showcase is not just about products; it's a testament to our ongoing pursuit of advancements in manufacturing. We look forward to sharing our expertise and pushing the boundaries of what's possible in battery pack manufacturing at IMTEX FORMING 2024," he adds.

To be continued on 4

Source: Magic Wand Media

SATHEESH KUMAR
Managing Director
Meera Laser Solutions Pvt Ltd

Engaging with potential customers at IMTEX FORMING opens doors to new business opportunities and collaborations. Additionally, the exchange of knowledge and ideas within the industry at the expo contributes to our continuous learning and improvement.

Garnering significant response

The company witnesses heightened interest from attendees in two key areas within their product displays. Kumar says, "Firstly, our cutting-edge battery technologies are in high demand, considering the escalating global interest and adoption of electric vehicles (EVs). The surge in EV production has intensified the focus on advanced battery solutions, making our showcase particularly relevant to those seeking innovative and efficient energy storage solutions for electric mobility."

"Secondly, our laser welding advancements for batteries are captivating the attention of industry professionals. Precision and reliability in battery pack manufacturing are crucial elements, and our state-of-the-art laser welding machines address these needs, ensuring robust connections and enhanced durability," he notes.

Meera Lasers' latest innovations in EV battery packs are also drawing significant interest, as attendees seek insights into the evolving landscape of electric vehicle technology.

Kumar says, "We look forward to engaging with the audience and sharing our expertise in these pivotal areas at IMTEX FORMING 2024."

Expanding strategically

Meera Laser Solutions delivers custom-built laser solutions across diverse industries. For the manufacturing sector, its cutting-edge technologies encompass 3D laser cutting, ensuring precision and efficiency in shaping materials for various applications. For the automotive sector, Meera Lasers' spotlight is on battery welding equipment and technology, specifically designed for Electric Vehicles (EVs), aligning with the growing demand in the automotive industry for sustainable and energy-efficient solutions. And in the aerospace sector, the company offers advanced laser applications such as cladding and hardening, addressing the stringent requirements of aerospace manufacturing.

Meera Lasers has also recently inaugurated a Tech Centre in Pune. Sateesh says, "This strategic expansion aligns with our vision to comprehensively address the diverse requirements and challenges faced by our customers across the country. The Pune center will serve as a hub for cutting-edge laser solutions, including laser cutting, hardening, cladding, battery welding, marking, and more. Located strategically in Pune, our Tech Centre positions us to efficiently cater to the needs of a broader customer base. The facility is equipped with state-of-the-art technologies and staffed with skilled professionals, facilitating hands-on demonstrations, collaborative problem-solving, and in-depth consultations."

The Pune Tech Centre not only serves as a showcase for Meera Lasers' latest advancements but also as a collaborative space where customers can engage with their experts, explore solutions, and find tailored answers to their specific challenges.

On the benefits of participating in IMTEX FORMING 2024, Sateesh says, "Engaging with potential customers at IMTEX FORMING opens doors to new business opportunities and collaborations. Additionally, the exchange of knowledge and ideas within the industry at the expo contributes to our continuous learning and improvement." SD

METALWORKING EQUIPMENT

Unlocking Innovations in Forming and Welding

Source: Magic Wand Media

Chennai Metco's strategic focus for IMTEX FORMING 2024 revolves around engaging with companies actively involved in component exports. Recognizing the global competitiveness imperative for these entities, the company sees an opportunity to provide them with advanced technological solutions, potentially translating into substantial business growth. SD

Chennai Metco Pvt Ltd
www.chennaimetco.com
Hall & Stall: 3A/C-116

Chennai Metco Pvt Ltd, a leading player in the metalworking industry, is featuring a dynamic array of products and technologies at IMTEX Forming 2024. At the forefront of their display are solutions catering to the forming and welding sector. Additionally, Chennai Metco is showcasing products integral to the fasteners industry, emphasizing their role in the precision forming process. As the automotive industry witnesses a shift towards electric vehicles, Chennai Metco is also presenting innovative solutions for the electric vehicle segment.

Focus at IMTEX FORMING 2024

When asked about the machines and technologies in high demand at the event, C Renganathan, Director, Chennai Metco Pvt Ltd, highlighted the robust growth in India's forming and fasteners industry, emerging as a formidable alternative to Chinese exports, and hence solutions catering to the industry is garnering significant attention.

C RENGANATHAN
Director
Chennai Metco Pvt Ltd

IMTEX FORMING 2024 serves as a crucial platform for reinforcing relationships with existing customers, showcasing our extended portfolio, and fostering new connections. The trade fair as an ideal medium for meeting potential clients who are not yet acquainted with our offerings, thereby expanding their market reach.

Source: Chennai Metco Pvt Ltd

MACHINES ON DISPLAY
• Cutting Machine • Mounting Press • Polishing Machine
• Metallurgical Microscope • Hardness Testers

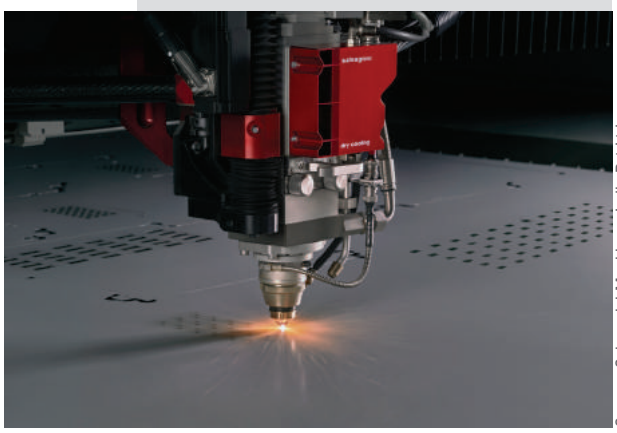
COMPRESSED AIR CUTTING TECHNOLOGY

Salvagnini Has Had a Change of Air

Salvagnini, a leader in laser technologies, has witnessed a significant shift in laser cutting preferences towards compressed air as an assist gas. Compressed air is proving cost-effective, particularly as the cost of nitrogen rises. Salvagnini's ACUT option, enabling cutting with treated compressed air, has seen rapid development, cutting thicknesses up to 20 mm.

Data from LINKS, Salvagnini's IoT solution, reveals a substantial growth in compressed air usage, accounting for 40 percent of sheet metal cut between September 2020 and 2021. Thin sheets, especially up to 2 mm, show comparable speed and quality with compressed air compared to nitrogen. The trend extends across various materials and industries, with applications in HVAC, refrigerators, metal furniture, and job shops. Salvagnini anticipates further growth, actively developing intelligent functions for compressed air cutting technology. In essence, compressed air is becoming a preferred choice in laser cutting, driven by its efficiency and cost benefits, with Salvagnini at the forefront of its advancements. SD

Salvagnini Machinery India Pvt Ltd
www.salvagninigroup.com/en-INT
Hall & Stall: 5/B-101



Source: Salvagnini Machinery India Pvt Ltd

PLATE BENDING & SECTION BENDING MACHINES

Showcasing Advancements in Technology

Source: Magic Wand Media

At IMTEX FORMING 2024, Batliboi Ltd is participating with its Principals DAVI-Promau S.r.l., a globally renowned manufacturer of Plate Bending and Section Bending Machines 3-roll and 4-roll. The company has represented DAVI for over two decades in the Indian market with efficient after-sales services backed by its spare support.

"IMTEX helps us bring awareness of the advancements in technology that are incorporated in the machines manufactured by DAVI. It also helps us to highlight their advantages in terms of final output accuracy and productivity," says Kabir Bhogilal, Executive Director, Batliboi Ltd.

"For us, IMTEX FORMING is a very important exhibition for lead generations and also to meet with our consolidated customers. We are expecting to generate leads, especially in the mid- and small-machine-size market, which is the most difficult to reach through our marketing campaign and local scouting. India has tons of small and mid-fabricators who can afford to buy a DAVI machine but not all of them are aware of us," shares Marco Guidi, Area Manager India, DAVI-Promau S.r.l.

KABIR BHOGILAL
Executive Director
Batliboi Ltd

IMTEX helps us bring awareness of the advancements in technology that are incorporated in the machines manufactured by DAVI. It also helps us to highlight their advantages in terms of final output accuracy and productivity.

On display

Batliboi is exhibiting a digital, SERVO-TRONIC-synchronized, fully hydraulic, four-roll DAVI 'MCB F30' machine, powered by the latest DAVI 'iRoll Extreme CNC System with 3D Simulation'.

"DAVI Plate roll will demonstrate to customers the ease of high-quality rolling. Enhanced productivity leads to increased profits, catering to the diverse needs of various industries," Bhogilal adds.

MARCO GUIDI
Area Manager India
DAVI-Promau S.r.l

For us, IMTEX FORMING is a very important exhibition for lead generations and also to meet with our consolidated customers. We are expecting to generate leads, especially in the mid- and small-machine-size market, which is the most difficult to reach through our marketing campaign and local scouting. India has tons of small and mid-fabricators who can afford to buy a DAVI machine but not all of them are aware of us.

DAVI also excels in providing customized solutions tailored to specific requirements. This flexibility enables customers to obtain plate rolls that align perfectly with their unique applications and project demands. By offering a comprehensive range of options, DAVI empowers industries to optimize their metal forming process and achieve superior outcomes.

Catering to market demands

According to Bhogilal, plate bending and section bending machines will be the most sought-after by the industry at the exhibition. He explains, "Metal forming is a primary manufacturing process that includes drawing, forging, rolling, bending, punching, pressing, shearing, die stamping, etc. The metal forming machinery industry plays a prominent role in India's manufacturing sector and there is tremendous scope for growth driven by rising demand for goods and services in each segment in coming years, as global manufacturing companies are trying to diversify their production by setting up plants in India."

"The infrastructure development activities by Govt. of India for the projects in the area of building metro stations, new airports, international terminals, industry corridors, ports, and power plants that need heavy steel structures are already giving a boost to the Indian metal fabrication market," he adds.

The key promising industry sectors for the company are Process Plant Equipment; Infrastructure, Construction Equipment manufacturers; Heavy and light-duty fabricators; and Green Energy. SD

LIVE DEMO
- **DAVI 'iRoll' Extreme CNC System with 3D Simulation**
- **Fully Hydraulic Four Roll DAVI 'MCB F30' Machine**

Batliboi Ltd
www.batliboi.com
Hall & Stall: 4/A-152

PRESS HARDENING LINES

Press Hardening Lines from ISGEC

ISGEC Heavy Engineering Ltd
www.isgec.com
Hall & Stall: 2A/B-101

ISGEC, in collaboration with AP&T-Sweden, is offering turnkey solutions for Press Hardening Lines for hot stamped parts in the Indian market. This technology is relatively nascent and unexplored by Indian automotive manufacturers and a huge demand for this technology is expected in the next couple of years. The company intends to share the references and technology behind this process with the customers. SD

Hot Forming Press Line

Source: ISGEC Heavy Engineering Ltd

AMADA

AMADA DIGITAL INNOVATION V-factory

Future Technologies with Amada

AMNC 4ie NEW

VENTIS AJe
Fiber Laser

- Fiber laser with LBC Technology
- AMNC 4ie Controller
- Laser Integration System (LIS)
- Energy-saving performance

AMNC 4ie NEW

EGBe

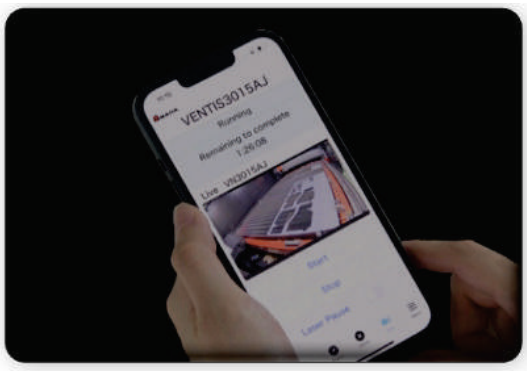
- Electric servo drive press brake
- AMNC 4ie Controller
- Smart operation package
- 90% less oil consumption

Four E's that solve the problems

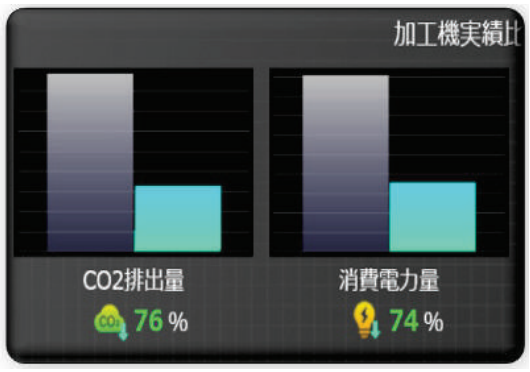
Easy Operation for anyone to use	Easier for anyone
Efficiency Remote machine operation	Efficiency anywhere
Environmental Sustainability in production	Friendly to the environment
Evolution With our customers	Grow together with our customers

Facial Recognition Function

Start-up Inspection Guidance



Mobile HMI Function



CO2 Emission Reporting Fuction

ECO PRODUCTS

Among environmentally friendly products, those that have been significantly improved in product assessment compared to the previous model are declared as **ECO PRODUCTS**

IMTEX FORMING 2024

Hall No - 5
Booth No - B105

Amada (India) Pvt. Ltd
Technical and Vocational Center
No.60, KIADB Bengaluru Aerospace Park,
Singahalli Village, Budigere Post, Bangalore,
North Taluk - 562129, India.
Ph:080-71100200

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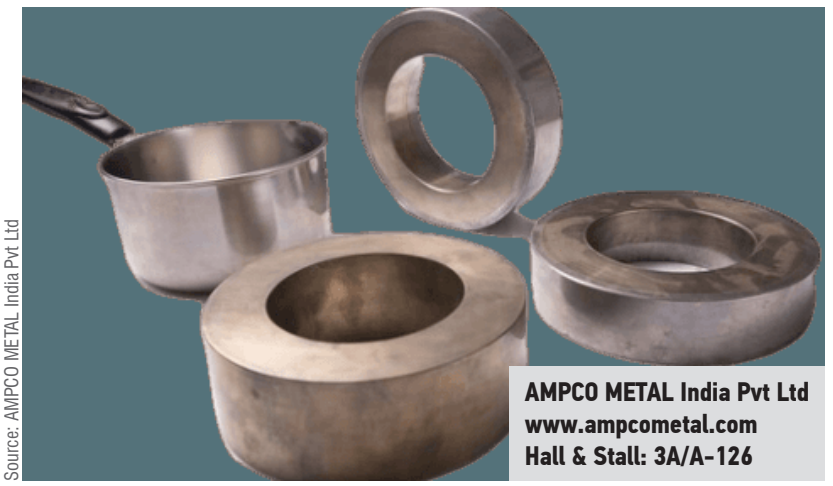
DEEP DRAWING

How AMPCO METAL Redefines Tool Performance



Source: AMPCO METAL India Pvt Ltd

AMPCO METAL India Pvt Ltd
www.ampcometal.com
Hall & Stall: 3A/A-126

Deep drawing is the most commonly employed metal forming process, facilitating the conversion of a flat sheet of metal into intricate and deep shapes. The choice of tool materials plays a pivotal role in determining the quality of the final product. For instance, while cast iron tools exhibit good sliding properties, they tend to wear out quickly. On the other hand, hardened steel tools offer satisfactory durability but are prone to pick up marks issues. If coated, the result will be better, but after a certain number of shots, the sliding properties will tend to decrease, consequently increasing the coefficient of friction.

In light of these considerations, AMPCO METAL recommends the use of AMPCO® 25 for deep drawing tools, such as drawing dies or drawing punches for stainless steel and titanium sheet metal. In comparison to steel, commercial bronze alloys, and coated materials, AMPCO® 25 boasts higher hardness and superior sliding properties, leading to reduced friction, prevention of galling, and overall decreased wear.

Due to the exceptional resistance of AMPCO® materials to corrosive or atmospheric influences, no special arrangements are necessary to prevent oxidation. However, it's essential to consider the higher linear coefficient of expansion in AMPCO® material when determining the drawing gap between the die and punch, which should be approximately +12 percent of the hot-rolled blank thickness and +10 percent of the cold-rolled blank thickness for optimal results.

Common metal forming tools

There are a lot of different tools for metal forming available. Recognizing the need for precise tools in specific applications, AMPCO METAL provides a comprehensive selection of unmatched performance alloys. These alloys find applications in various tools, including deep drawing tools, forming rolls, welding rolls, and sizing rolls.

Why AMPCO®25?

Metal forming tools must meet the criteria of reliability, high quality, and extended service life. The deep drawing dies crafted from AMPCO®25 exhibit a slower rate of wear and breakage, attributable to their exceptional hardness and remarkable compressive strength. However, the advantages of AMPCO®25 extend beyond these attributes. Unlike other hard materials, which predominantly offer hardness and strength, AMPCO®25 provides significantly superior sliding properties, markedly reduced wear, and a very high compressive strength of Rmc 1550 MPa.

AMPCO® alloys, incorporating the patented MICROCAST® technology, feature a consistently homogeneous microstructure. This unique microstructure transforms metal forming tools, such as deep drawing dies, drawing punches, forming rolls, welding rolls, mandrels, wiper dies, and more, into a game-changing innovation for the metal forming industry.

While traditional materials like cast iron and hardened steel present certain limitations, the usage of AMPCO® Bronze, as recommended by AMPCO METAL, offers a superior solution. Coupled with AMPCO METAL's advanced MICROCAST® technology, these alloys pave the way for a transformative advancement in the metal forming industry, promising enhanced reliability and longevity for various tools. SD

AMT – THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY

Leveraging the India Opportunity

Doug Woods, President, AMT – The Association For Manufacturing Technology, expects IMTEX FORMING 2024 & Tooltech 2024 to follow other highly successful manufacturing technology events held in 2023. "We have seen that there is a strong desire to be at events like this to evaluate the latest advances in manufacturing production solutions, as well as to network and meet with industry leaders and peers to share ideas, learn about new techniques, and look for opportunities to partner or collaborate," he adds.

More than 25 American companies are participating in the show by exhibiting on their own through their Indian subsidiary or with their agents or distributors. All these companies have made an investment and commitment to the local market and would like to increase their footprint in India.

Strengthening Indo-American ties

According to Woods, all the technologies the US companies are bringing into IMTEX FORMING 2024 into the Indian market can help the Indian manufacturing sector to upgrade their processes. Whether it is machine tools, metrology, robotics, automation systems, software platforms, additive manufacturing, tooling, fixturing, or even manufacturing as a service (MaaS) platform, AMT members bring unique integrated technology solutions to the market.

According to Trade Data Monitor (TDM), the source AMT uses for global trade data, during the period from January 2022 to October 2023, India imported US $135 million worth of machine tools from the US. During this same period, they exported US $55 million to the US. India consumes about US $2 billion of machine tools every year and almost half of this is imported. With the US accounting for less than 10 percent of the imported manufacturing technology, there is plenty of room for American producers to expand and capitalize on the opportunities within the booming manufacturing sector in India. SD

DOUG WOODS
President
AMT – The Association For Manufacturing Technology

The potential in a market with almost 1.4 billion people certainly attracts investors looking to expand into the Indian market, as well as to leverage opportunities with unique Indian manufacturing technology companies to expand business growth in other global markets.

Source: AMT – The Association For Manufacturing Technology

AMT – The Association For Manufacturing Technology
www.amtonline.org
Hall & Stall: 4/B-164

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VISIT US | **HALL # 4** **BOOTH # B-110**

METROLOGY SYSTEMS

Redefining Manufacturing Standards

Source: Magic Wand Media

For Carl Zeiss India (Bangalore) Pvt Ltd, participation in IMTEX FORMING is crucial for its business growth. "Our presence at IMTEX enables us to contribute to India's evolution as a global manufacturing hub. The platform allows us to share our innovative solutions with the expanding Indian manufacturing sector. This supports our growth by enabling us to broaden our portfolio with unique offerings, thereby scaling our business and enhancing our presence in the industry," says Aveen Padmaprabha, Head of Industrial Quality Solutions (IQS) – India, Carl Zeiss India (Bangalore) Pvt Ltd.

AVEEN PADMAPRABHA
Head of Industrial Quality Solutions - India
Carl Zeiss India (Bangalore) Pvt Ltd

Although the event is geared towards the metal forming industry, we are receiving visitors from all manufacturing sectors. This is due to the scalable applications of sheet metal and forming present across diverse industries.


Source: Magic Wand Media

Tailored solutions for the industry

The company is showcasing a variety of products and technologies tailored to the forming industry, including its traditional Coordinate Measuring Machines (CMMs), Optical Measuring Machines with Microscopes, and Form Measuring Machines. Carl Zeiss India has reintroduced innovative solutions such as Inline Automated Metrology Systems and Robot-Mounted Optical Metrology Systems, aimed at enhancing productivity for the sheet metal industry. Additionally, its ZEISS Quality Suite, a 3D digital measuring software ecosystem, is on display, integrating all the company's solutions into one platform. It is also presenting ZEISS PiWeb, its digital metrology data monitoring software.

Padmaprabha shares that though all the solutions mentioned are important for this IMTEX FORMING, the following two solutions are focused products for the forming industry.

- ***ZEISS ScanBox Series 5:*** ZEISS ScanBox Series 5 provides full-field 3D measurement coordinates that can be compared against the CAD model and used for reporting. Deviations in terms of Geometric Dimensioning and Tolerancing as well as trimming and hole positions are visualized in the GOM Inspect Pro software.
- ***ZEISS ABIS III:*** The newly-developed ZEISS ABIS III sensor combines high-speed inspection with reliable detection of all relevant surface defects such as dents, bulges, sink marks, ripples, neckings, cracks and now also scratches, and pressure marks. The system inspects both moving and stationary parts reproducibly and is highly precise during live production and within the cycle time.

Padmaprabha is anticipating visitors from a range of industry sectors at its booth during IMTEX FORMING 2024, including the Automotive, Energy, Aerospace, Sheet Metal, and Machine Tool industries. SD

Carl Zeiss India (Bangalore) Pvt Ltd
www.zeiss.co.in
Hall & Stall: 3A/A-122

INTEGRATED LASER WELDING SYSTEM

IPG Photonics' Integrated Laser Welding System (ILWS)

IPG's ILWS is a fully integrated, turnkey remote laser welding equipment set. Comprising a zero-maintenance laser with a laser processing head optimized for the application and a dedicated system controller, the system includes a user-friendly HMI and system control software to provide high-speed, high-precision 2D welding of metal parts.

In typical applications, the laser processing head is attached to a six-axis robot or a gantry system for positioning over individual parts, or pallets of parts, to be welded. Industry-standard interfaces allow simple ready/complete signaling to enable the ILWS unit. System options include vision alignment to correct part placement and positioning errors, significantly relaxing the requirements for part tooling accuracy and LDD Real-time Weld Measurement for continuous quality monitoring.

The key features include: high-efficiency, maintenance-free fiber laser; 2-axis high-power, high-precision scanner; user-friendly GUI for rapid part reprogramming; integrated vision system with powerful automated part alignment; single integrated control console for fast installation and minimized footprint; a design for high-speed and high-precision welding; and an automated part position correction that maximizes yield in continuous-flow manufacturing.

Applications

IPG's ILWS is used in Automotive Components Body, Doors, Seats, Batteries, and Contact; Heat Exchangers for Chemical/ Oil & Gas applications; Food & Pharmaceutical industries; Furniture Components; and Domestic Appliances, White Goods, and Electrical Cabinets. SD

IPG Photonics (India) Pvt Ltd
www.ipgphotonics.com
Hall & Stall: 4/B-110


Source: IPG Photonics (India) Pvt Ltd

METAL PLATE CUTTING

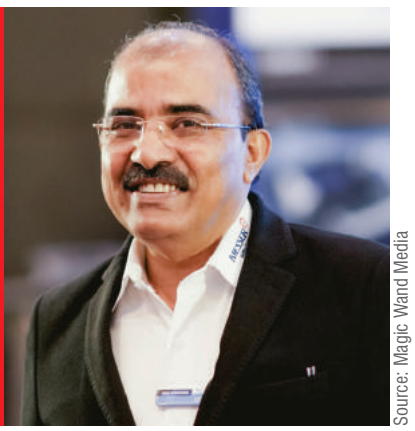
Setting New Benchmarks

Source: Magic Wand Media

For Messer Cutting Systems India, participating in IMTEX is instrumental to its business growth. "The event provides an unparalleled platform to showcase our cutting-edge technologies and innovations. The exposure gained at this premier industry expo allows us to connect with a diverse audience of industry professionals, potential clients, and collaborators," says Mani Narayanan, Managing Director, Messer Cutting Systems India Pvt Ltd.

MANI NARAYANAN
Managing Director
Messer Cutting Systems India Pvt Ltd

Through engaging with visitors, we can demonstrate the capabilities of our advanced solutions such as ELEMENT with Plasma and Laser Bevel Cutting, FiberLight Laser Machine, and the Automated Compact Material Handling Solution.



Source: Magic Wand Media

Innovations for enhancing speed and precision

"Attendees seeking unparalleled versatility and precision in metal cutting are likely to find ELEMENT to be a standout solution. Our Automated Compact Material Handling Solution is also poised to be a sought-after technology. Designed to streamline plate processing workflows, it enhances operational efficiency by automating material handling tasks. These two technologies, ELEMENT and the Automated Compact Material Handling Solution, embody Messer Cutting Systems India's commitment to delivering cutting-edge solutions that address the evolving needs of the industry, providing attendees with transformative tools for efficient and precise plate processing," informs Narayanan.

Alongside these advancements, the company is presenting its range of Safest Gas Equipment Products. SD

LIVE DEMOS

- ELEMENT with Plasma and Laser for Bevel Cutting
- FiberLight Laser Machine with Compact Material Handling Solution

Messer Cutting Systems India Pvt Ltd
www.messer-cutting.com
Hall & Stall: 5/A-110

SHEET METAL MACHINES

Exploring Untapped Opportunities

Source: Magic Wand Media

IMTEX is one of the most important exhibitions for Meiban Engineering Technologies, says Rishi Kapoor, the Associate Vice President of the company. "The event helps us showcase our new technologies to the maximum number of visitors at one location. The customers here come with the expectation of exploring new solutions and technologies and buying the most efficient equipment. It provides us with the best possible platform to meet our users and prospective buyers. It also helps us penetrate untapped industries and new geographical areas," he adds.

Solutions that address industry needs

At IMTEX FORMING, Meiban Engineering Technologies Pvt Ltd is offering its customers twin solutions. The first one is Process Integration where one can completely process the sheet in one setting, i.e. Punching, Forming, Tapping, and Deburring. This reduces the damage to the finished product, eliminates some of the post-process operations, and improves productivity. This is highly suitable for batch production and reduces in-process inventory considerably. For this, the company is showcasing its top-of-the-line Motorum-3048TG with an 8-station Tapping unit.

The second, Motorum-2048TS with Swing Loader SL2512, addresses the unavailability of skilled labor in the Indian sheet metal industry. This economical automation from Muratec comes with 2 operational modes of full automation or semi-automation, giving customers flexibility.

"We are also displaying Muratec AC Servo Press Brake BB4013 which is an oil-free bending machine and provides high productivity with high precision to the customers. Last but not least, Muratec's unique SCPX software with ProcessNet Monitor software is being displayed to show how to process the customer's 3D drawing and collect the data from the machine, which will be available handy to the customer and can be used for process optimization and better operational efficiency," shares Kapoor. SD

Meiban Engineering Technologies Pvt Ltd
www.meibanengg.com
Hall & Stall: 4/B-103

ELECTRIC GRANDNESS BENDING MACHINES

EGBe Series from Amada

Introducing the EGB Series of Electric Grandness Bending Machines, a cutting-edge solution revolutionizing precision in metal bending operations. Boasting a new electric crowning system with independent left and right controls, the EGB Series ensures enhanced accuracy.

Driving the EGB Series is the AMNC 4ie controller, a user-friendly interface requiring minimal skill. Featuring a 21.5-inch full HD display, the controller introduces idling stop measures, reducing standby power consumption by over 50 percent. The Facial Recognition (User Recognition) feature allows effortless switching between user modes without the need for passwords.

The Tablet HMI further elevates the user experience, enabling operations through slide foot pedals and voice control. With Y3 axis back gauge precision, Bi-SII bend accuracy checks, and simulation capabilities, the Tablet HMI ensures optimal positioning and processing. Its automatic switching of information from cameras, angle sensors, and NC reduces reliance on manual data checks. Voice operation and answerback features enhance workability, while the expanding Y3 axis and dedicated back gauge monitor maximize process range and efficiency. The EGB Series sets a new standard in bending technology, where innovation meets precision for unmatched performance in metal fabrication. SD

Amada (India) Pvt Ltd
www.amadaindia.co.in
Hall & Stall: 5/B-105

Source: Amada (India) Pvt Ltd

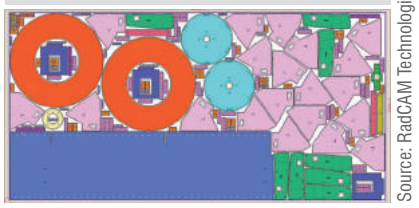
SHEET METAL DESIGN

Metalix from RadCAM

Metalix is a high-performance CAD/CAM package to make Sheet Metal Design accurate and simple with the manufacturing process in mind. Metalix understands Sheet Metal manufacturing requirements. Typical issues such as Bend allowance and corner relief are all considered. Metalix can be integrated with one's design environment from where they can directly export their design to the manufacturing environment with a click of a button using CADLINK.

Metalix supports a wide range of machines and has a powerful solution for porting parts from one technology or machine type to another, such as punch to laser. AutoNest Pro module will process the parts with multiple thicknesses and materials in one click. It also ensures sheets are processed with maximum utilization and fewer tool changes. It supports minimizing the number of NC Programs/Subnests. The users can customize the nest and work order reports according to their requirements. The report can be exported in xml format to integrate the software with the ERP system. Metalix also provides an advanced platform for estimating production times and costs to assist one when preparing quotes. Metalix supports graphic simulation of any CNC program, including legacy programs previously written on the machine. The simulation enables easy editing of CNC programs, while graphically viewing the result on the processed sheet. Advanced post-processor generates efficient programs including subroutines (macros) and optimizes tool path with the support of machine operations like oiling, vacuum, and ram–rate. With Mbend, the user can do offline programming for press brakes to minimize machine downtime. It enables offline generation of bend sequences and tooling setups, with dynamic 3D simulation for checking collisions. SD

RadCAM Technologies Pvt Ltd
www.Radcamtechnologies.com
Hall & Stand: 4/A-107



Source: RadCAM Technologies Pvt Ltd

CLAMP & CHANGE TECHNOLOGY PRODUCTS

Showcasing Cutting-Edge Technologies

Source: Magic Wand Media

At IMTEX FORMING 2024, Andreas Maier Workholding – India is showcasing a remarkable array of products and technologies that epitomize innovation and efficiency in the manufacturing sector. The products fall into two key categories: Clamp technology products, encompassing clamping and workholding solutions, and Change technology products, featuring die-lifters, guide elements, and loading arms. "These cutting-edge offerings underscore our commitment to providing comprehensive solutions for the evolving needs of the industry," says TV Mohan, Country Head & Managing Director, Andreas Maier Workholding – India.

"For attendees seeking insights into the most sought-after machines and technologies, we believe that the rapid integration of Industry 4.0 across manufacturing activities has reshaped the landscape. In this context, the modernization and automation of production emphasize the equal importance of clamping, changing, and transport technologies," he adds.

The company's focus at IMTEX FORMING is on engaging with visitors and delegates from key industry sectors, with a special emphasis on the Form & Press industry. We are garnering significant response from professionals and experts within these segments.

"Participating in IMTEX FORMING is a strategic move to propel our business growth. Recognized as the premier industry exhibition globally, IMTEX attracts a class of visitors who are change-makers in their respective fields. This platform allows us to connect with industry leaders, foster collaborations, and stay abreast of the latest trends and technologies, ultimately contributing to our continuous growth and evolution," concludes Mohan. SD

Güthle Pressenspannen GmbH
www.guethle.de
www.amf.de
Hall & Stall: 4/B-12

Academia Pavilion
@ i2 Academia Square, IMTEX FORMING 2024, 22 January 2024

Timings	Sequence of events
1000 - 1010 hrs	Opening remarks, Mr.H.V.Rajashekar, Advisor, IMTMA
1010 - 1025 hrs	**"Humanoid Mobile Robots for Multipurpose Societal Applications",** Amrita Vishwa Vidyapeetham, Amritapuri
1025 - 1030 hrs	Change over
1030 - 1045 hrs	**"Repairing of Damaged Die by Wire Arc Additive Manufacturing",** Chennai Institute of Technology, Chennai
1045 - 1050 hrs	Change over
1050 - 1105 hrs	**"Sheet Metal Forming and Solid State Recycling Shopfloor Scrap",** Indian Institute of Technology Bombay
1105 - 1110 hrs	Change over
1110 - 1125 hrs	**"Showcasing the Capabilities of Polyjet Digital Anatomy Priniting (DAP) in Engineering & Medical Product Design Application",** Jawaharlal Nehru Engineering College, MGM University
1125 - 1130 hrs	Change over
1130 - 1145 hrs	**"Development of Steel Foams Manufactured from Machining Waste for Automobile Crash Protection",** KLS Gogte Institute of Technology, Belagavi
1145 - 1200 hrs	Coffee / Tea
1200 - 1230 hrs	Tech Talk - **"i4.0, A viable technology for SME",** Mr.Dhiraj from Maxbyte Technologies Pvt. Ltd.
1230 - 1235 hrs	Change over
1235 - 1250 hrs	**"Design and Development of Surveillance Robot for Military Application",** Mangalore Institute of Technology & Engineering, Moodbidri
1250 - 1255 hrs	Change over
1255 - 1310 hrs	**"Development of Trimming Die Using Bound Powder Extrusion Process",** SASTRA Deemed to be University, Thanjavur
1310 - 1315 hrs	Change over
1315 - 1330 hrs	**"Digital Transformation through Virtual Reality Training for Enhanced Industrial Safety",** Vishwakarma Institute and University, Pune
1330 - 1530 hrs	Lunch
1530 - 1630 hrs	**Awards Presentation Ceremony**
1530 - 1535 hrs	Opening address, Mr.Jibak Dasgupta, DG & CEO, IMTMA
1535 - 1540 hrs	Presidential Address, Mr.Rajendra Rajamane, President, IMTMA
1540 - 1545 hrs	Jury's impressions by Mr.P.Subramanya, Chairman, Jury
1545 - 1555 hrs	Felicitation of Jury members
1555 - 1605 hrs	Awards presentation ceremony, compered by Mr.Jibak Dasgupta, DG & CEO, IMTMA
1605 - 1615 hrs	Address by 1st, 2nd and 3rd prize winners
1615 - 1625 hrs	Feedback by other contesting institutions
1625 - 1630 hrs	Vote of Thanks, Mr. P.J.Mohanram, Principal Advisor, IMTMA

IMTEX FORMING 2024 VISITOR

"Combination Type Machines Must Make Their Way to India"

"I am a member of the global sourcing team at Ametek. Currently, I am in search of LASER Cutting Machines that offer greater precision and incorporate the latest technologies. While I have come across numerous machines fitting this description, the combination-type machines utilized in the USA have yet to make their way to India. Next time, I hope to explore machines that combine LASER technology with other functionalities, such as punching machines."

MADAN KUMAR
Ametek India

DELEGATE SPEAK

Mechanical engineers must visit IMTEX FORMING

"IMTEX FORMING 2024 has been a fantastic experience. I recommend that mechanical engineers consider attending the event to explore the latest advancements in metal forming. On the shop floor, we strive to maximize our current machinery setup. This event provides an opportunity to stay informed about cutting-edge products and new methods to enhance our systems."

N NAGESHWARA RAO
Deputy General Manager
BEML Ltd

PLASMA CUTTING MACHINES

For that Perfect Cut

Kjellberg Finsterwalde Plasma und Maschinen GmbH
Kjellberg Cutting and Welding India Pvt Ltd
www.kjellberg.de
Hall & Stall: 4/B-118

Source: Magic Wand Media

Kjellberg Cutting and Welding India Pvt Ltd is exhibiting its entire range for automated plasma cutting: The Smart Focus series achieves excellent results in the cutting range from 1 to 100 mm even under challenging conditions. The innovative Q-Series combines precise plasma cutting at an extraordinary level of up to 120 mm with the requirements of digitalized production. The plasma cutting systems of the HiFocus neo series meet the highest demands in the cutting range between 0.5 and 160 mm with nearly dross-free and rectangular cut surfaces.

Extensive range on display

"Furthermore, we are presenting our new plasma power source K 200 for the first time in India that focuses on the essentials of plasma cutting. It delivers optimal and reliable cutting quality up to 60 mm with easy operation at the lowest cost. It can be fully integrated into CNC guiding systems or controlled and monitored via an app. The power source has an integrated automatic gas control and a torch with a direct connection. A hand torch extends the application range to manual cutting," shares Vishal Deore, Managing Director, Kjellberg Cutting and Welding India Pvt Ltd. When asked about the industries and the applications the company is targeting for its innovative machines, he replies, "Metal construction & engineering; Job shop production; Steel & hall construction; Plant & tank construction; Construction of commercial vehicles, cranes, pipelines and ventilation; and Shipbuilding & automotive engineering, are the industries we are looking at." SD

INDUSTRY - ACADEMIA

Strengthening the Industry-Academia Bridge

Organized by IMTMA, CONNECT, the vibrant gathering for mechanical and electrical engineering students on January 21, offered a platform for students to engage with more than 15 distinguished companies from Bengaluru, Chennai, Mumbai, Pune, and Hyderabad. Held at i2 Academia Square, Hall 4, industries showcased their company profiles, technology, and job requirements, fostering connections between students and potential employers.

More than 147 engineering vacancies were available, offered by over 20 manufacturing companies located in various regions of India.

At the opening ceremony, Jibak Dasgupta, DG & CEO, IMTMA, clarified the distinctive aspect of CONNECT in comparison to other job fairs. Here, he said, candidates gain real-time exposure to the nature and work environment of the positions they aspire to.

CONNECT enabled Diploma and BE/BTech graduates with 0-2 years of experience to demonstrate their skills and competitiveness, equipping them for the dynamic manufacturing industry. SD

Source: Magic Wand Media

Jibak Dasgupta, DG & CEO, IMTMA addressing the attendees at CONNECT

TruLaser Cell 5030

The entry-level model

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19-23 January, 2024

Visit our booth B101, Hall no.4, B.I.E.C., Bengaluru.

IMTEX FORMING 2024

It has never been so affordable and flexible: the TruLaser Cell 5030 impresses with its low machine-hour rate and is ideally suited to small and medium lot sizes where components are frequently changed. It comes with an energy-efficient, low-maintenance TruDisk solid-state laser as well as a wealth of functions from the tried-and-tested TruLaser Cell product groups.

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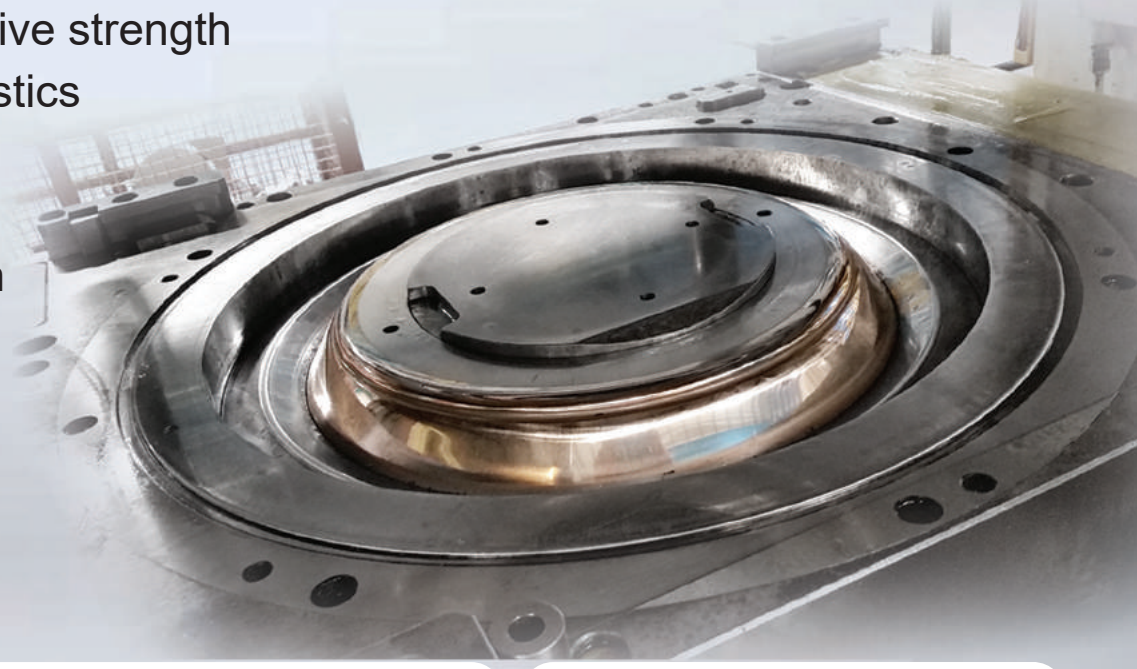

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