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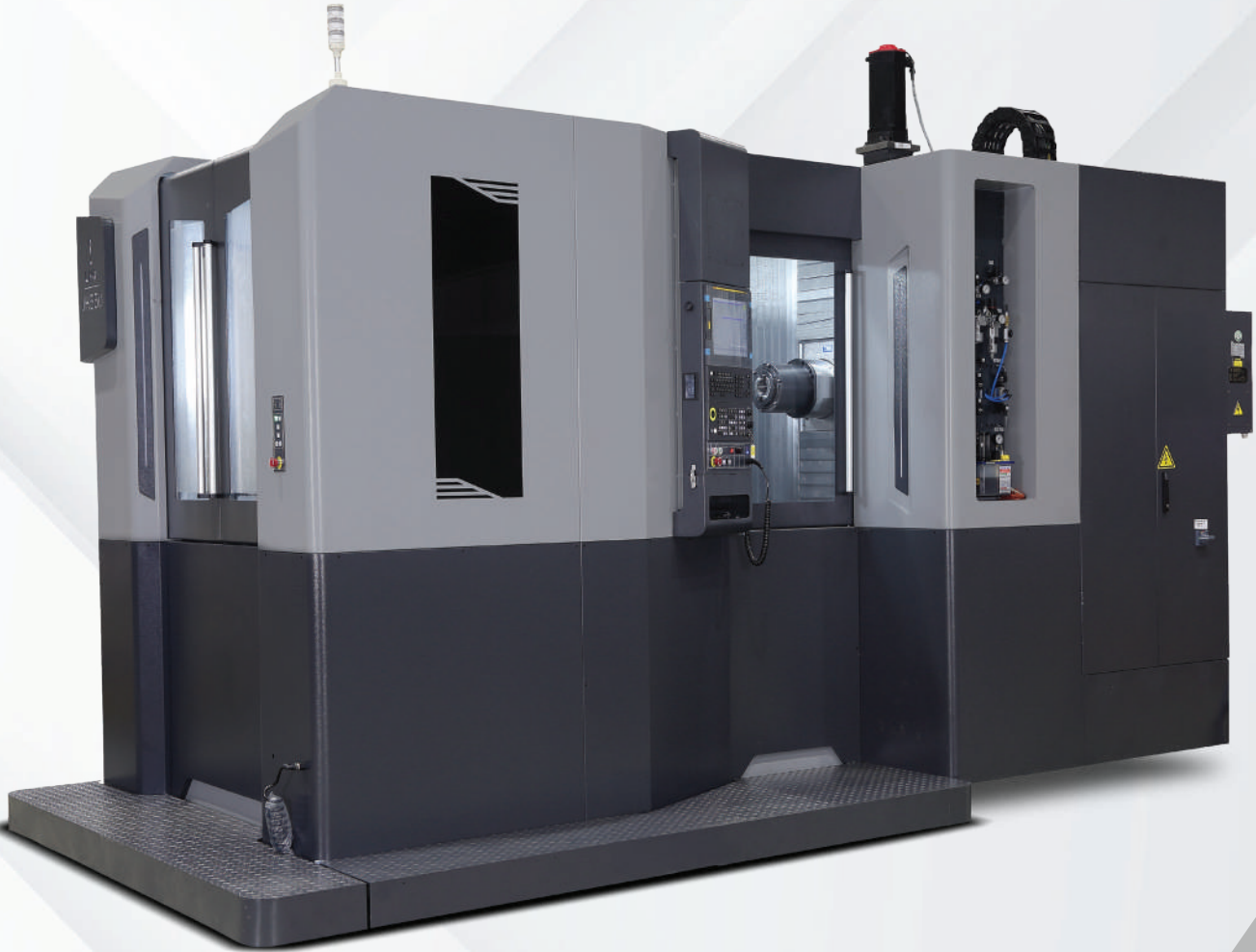
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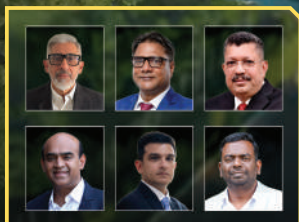


SHAPING THE FUTURE OF INDIA'S METAL FORMING INDUSTRY



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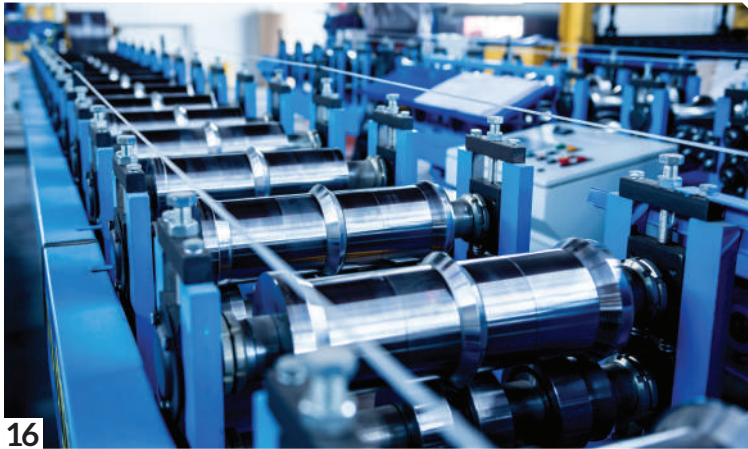


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MOHINI KELKAR
PRESIDENT
IMTMA

Dear Readers,

Over the years, the Indian machine tool industry has withstood many challenges, demonstrating resilience and momentum, underpinned by the depth of domestic demand and the country's growing aspirations to strengthen its industrial backbone. With production reaching INR 14,566 crore (US\$1.7 billion) and consumption touching INR 31,781 crore (US\$3.7 billion) in FY 2024-25, the signals are unmistakable: manufacturing growth is steady and driving strategic expansion.

The rise in capital goods consumption is an encouraging sign of confidence across industries. Simultaneously, it brings into sharp focus a long-standing systemic challenge: the persistent reliance on imports for critical core components. Control systems, drives, encoders, feedback devices, spindles, and ballscrews, the essential building blocks of every machine tool, continue to be sourced mainly from abroad, especially in high-precision domains.

Stakeholders have made concerted efforts to indigenize these technologies with varying degrees of success. The reluctance of technologically advanced nations to share knowledge has constrained progress, creating bottlenecks not just for the machine tool industry but for the broader capital goods ecosystem. This reality underscores an urgent imperative: the need to develop core technologies across all industrial segments.

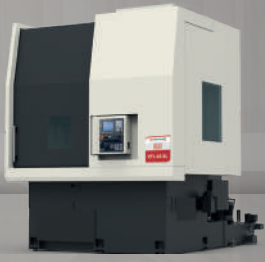
IMTEX FORMING 2026, to be held from January 21-25, 2026, at BIEC, Bengaluru, will serve as a dynamic platform for manufacturers, technology providers, and decision-makers to view the latest advancements in metal forming machinery and solutions, evaluate opportunities, and chart a future path.

History shows that transformative progress occurs when industry, academia, and government align around a shared purpose. A mission-mode approach that combines research, policy support, skill development, and industrial scale-up can enable India to cross this technological threshold. I urge Machine Tool industry stakeholders to join hands and work cohesively to develop core technologies and innovative products.

In this strategic context, IMTEX FORMING 2026, organized by the Indian Machine Tool Manufacturers' Association (IMTMA) from January 21-25, 2026, at Bangalore International Exhibition Centre, Bengaluru, assumes renewed significance.

I invite the manufacturing community to visit IMTEX FORMING 2026. The exhibition will serve as a dynamic platform for manufacturers, technology providers, and decision-makers to view the latest advancements in metal forming machinery and solutions, evaluate opportunities, and chart a future path.

Wishing everyone a happy New Year and rewarding reading of this issue of MMI.



TURNING SOLUTIONS



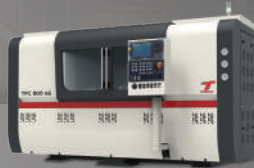
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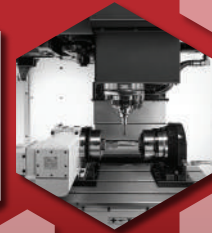
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JIBAK DASGUPTA
DIRECTOR GENERAL & CEO
INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION
BANGALORE INTERNATIONAL EXHIBITION CENTRE

Dear Readers,

Manufacturing is in a constant state of reinvention, shaped by technological breakthroughs, evolving market expectations, and the aspirations of nations seeking long-term industrial progress. Across the world, industries are reassessing how they invest in the design, manufacture, and marketing of products. At the core of this transformation lie machine tools—the fundamental enabler of productivity, precision, and progress.

The Indian machine tool industry is now entering a defining phase of its evolution, driven by rising domestic demand. Industry stakeholders increasingly recognize that long-term competitiveness is built not only on scale, but also on control over core technologies. This shift—from scale to capability—marks a significant maturation of the ecosystem.

The Indian machine tool industry is now entering a defining phase of its evolution, driven by rising domestic demand. Industry stakeholders increasingly recognize that long-term competitiveness is built not only on scale, but also on control over core technologies.

Modern Manufacturing India's (MMI) January-February 2026 edition captures this transition. Published in the run-up to IMTEX FORMING 2026, the magazine brings together ideas, initiatives, and innovations shaping the global metal forming landscape, while reflecting India's growing presence in an increasingly interconnected manufacturing environment.

What is particularly striking in the current environment is the clarity of intent amongst the business community. As manufacturers expand facilities and adopt advanced processes, discussions are moving from 'what-to-procure' to

'what-to-develop'. The renewed emphasis on homegrown products signals a strategic understanding that technological ownership is central to resilience, value creation, and global relevance.

I am sure that IMTEX FORMING 2026 is set to play a vital role in this journey by serving as a catalyst that connects ideas with execution and ambition with opportunities. This edition of MMI offers readers a view of technologies redefining metal forming, voices shaping industry discourse, and insights relevant to decision-makers across shopfloors and boardrooms alike. It presents the portrait of an industry in motion—confident in its progress, conscious of its challenges, and increasingly global in outlook.

The conversations initiated at IMTEX FORMING 2026 will influence decisions well beyond the exhibition halls. The Indian Machine Tool Manufacturers' Association (IMTMA) invites you to read, reflect, learn, and engage in building the future of manufacturing together.

Readers are also invited to share their feedback on the content published in MMI, which will help IMTMA enrich the magazine further.



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FORGING INDIA'S MANUFACTURING MOMENTUM

At a time when India's economic ascent is being validated by both capital flows and global attention, India's manufacturing sector finds itself at a defining point. The country has attracted US\$ 51 billion in FDI over the past six months, which is a resounding endorsement of India's structural reforms, policy consistency, and innovation-led growth.

In this context, IMTEX FORMING 2026 & Tooltech 2026, organized by Indian Machine Tool Manufacturers' Association, serves as a mirror and catalyst, showcasing progress while accelerating partnerships and technological adoption. Recognized as Asia's biggest platform for metal forming technologies, the trade show brings together precision engineering, advanced manufacturing, and global enterprise under one roof at Bangalore International Exhibition Centre from January 21-25, 2026.

With international buyers, sourcing leaders, and global investors visiting the show, IMTEX FORMING 2026 & Tooltech 2026 reflects India's manufacturing ecosystem that is advancing toward technological maturity, global competitiveness, and long-term resilience. The convergence of advanced forming technologies, automation, digital integration, and precision engineering gives a glimpse of how the industry is aligning with the imperatives of the future.

As the exhibition halls host discussions, live demonstrations, and technology and product showcases, new connections are formed, collaborations take shape, and businesses identify opportunities to enhance productivity, sustainability, and competitiveness in the years ahead.

"Sometimes when you innovate, you make mistakes. It is best to admit them quickly and get on with improving your other innovations."

- Steve Jobs

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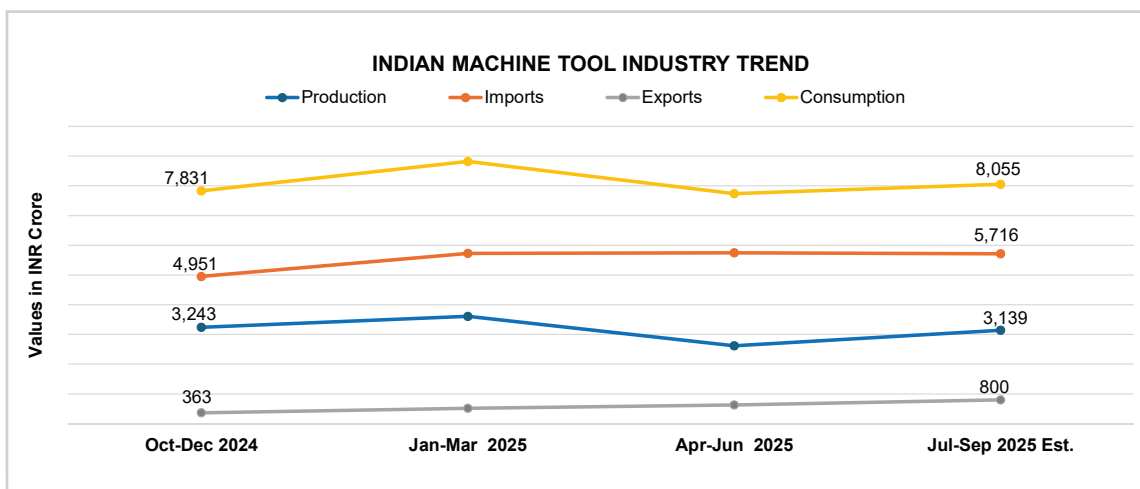


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LET'S TAKE YOUR **MANUFACTURING**
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STRONG GROWTH BOOSTS MACHINE TOOL SECTOR

Supported by continued infrastructure spending and rising industrial demand, India's economy and manufacturing sector continue to exhibit strong momentum. While domestic machine tool production and exports are slowly improving, the industry faces the challenge of high import dependence.



India's growth momentum strengthened further in 2QFY26, with real GDP and GVA growth rising to 8.2 percent and 8.1 percent, respectively, from 7.8 percent and 7.6 percent in the previous quarter. High-frequency indicators showed mixed trends, with Manufacturing PMI easing to 56.6 in November 2025, Services PMI remaining strong at 59.8, and IIP growth moderating to a 14-month low of 0.4 percent in October 2025.

Inflation Remains Benign
 On the inflation front, CPI inflation remained benign, though it edged up to 0.7 percent in November 2025 from 0.3 percent in October 2025, while core CPI inflation stayed sticky at 4.3 percent during the month. Meanwhile, the pace of contraction in wholesale prices eased to (-)0.3 percent in November 2025 from (-)1.2 percent in

October 2025, largely reflecting a moderation in the decline of vegetable and fruit prices.

Government Finances Support Investment-Led Growth
 The Government of India's gross tax revenues grew by 4.0 percent during April-October FY26, driven by a 6.1 percent increase in direct taxes, while indirect taxes rose modestly by 1.7 percent. Total expenditure expanded by 6.1 percent over the same period, with revenue expenditure remaining broadly flat at 0.03 percent and capital expenditure registering a strong growth of 32.4 percent. Consequently, fiscal and revenue deficits during April-October FY26 stood at 52.6 percent and 46.7 percent, respectively, of their annual budget estimates. In the December 2025 monetary policy review, the RBI cut the

repo rate by 25 basis points to 5.25 percent from 5.5 percent, while maintaining a neutral policy stance.

External Sector Improves with Narrowing Trade Deficit
 In the External sector, the merchandise trade deficit narrowed to a five-month low of US\$ 24.5 billion in November 2025 from an unprecedented high of US\$ 41.7 billion in October 2025. Merchandise exports rebounded strongly, recording a 41-month high growth of 19.4 percent in November 2025, led by robust expansion in engineering goods exports, while merchandise imports contracted by 1.9 percent, largely due to a sharp decline in gold imports.

Favorable Global Conditions
 Average global crude oil prices declined from US\$ 63 per

Source: Data & Policy Team, IMTMA

barrel in October 2025 to US\$ 62.3 per barrel in November 2025, marking the lowest level since February 2021 amid easing supply conditions. Meanwhile, the OECD (Organisation for Economic Co-operation and Development) projected global growth at 3.2 percent in 2025 and 2.9 percent in 2026, with India's growth forecast at 6.7 percent in FY26 and 6.2 percent in FY27.

Machine Tool Industry Performance

Production of machine tools during H1FY26 (April-September 2025) increased by 12 percent year-on-year to INR 5,755 crore (US\$ 665 million). Orders

booked during the same period stood at INR 6,886 crore (US\$ 796 million), registering a 14 percent increase. Imports rose sharply by 43 percent year-on-year to INR 11,464 crore (US\$ 1,326 million) in H1FY26, while machine tool exports in H1FY25 surged by 140 percent to INR 1,425 crore (US\$ 165 million). Consumption is estimated to have grown by 26 percent to INR 15,794 crore (US\$ 1,827 million) in H1FY26.

Sharp Rise in Imports

Total machine tool imports reported from April to November 2025 reached INR 14,923 Cr (US\$ 1.7 billion), with 36,161 units of machines imported.

China (29%), Japan (23%), and Germany (13%) emerged as the top countries for imports, contributing to 65 percent of the total machine tool imports. Presses (18%), Vertical Machining Centers (VMCs) (12%), and Lathes (9%) were the top machinery types imported, valued at INR 5,842 Cr (US\$ 673 million), constituting approximately 39 percent of total machine tool imports during the period.

Exports Improve

While for exports, total machine tool exports from April to November 2025 reached INR 1,831 Cr (US\$ 210 million), with 5,725 units of machines exported. 

VMCs (26%), presses (15%), and lathes (10%) were the top three machinery types exported, valued at INR 934 Cr (US\$ 107 M), constituting approximately 51% of total machine tool exports during April to November 2025.



Indian Machine Tool Manufacturers' Association

The report provides deep insights into:

- Current landscape and future potential of the Indian machine tool industry
- Direct insights from C-suite leaders, plant heads, and end-users
- Key challenges and strategies for market growth
- Production, consumption, import-export trends, and projections across sectors like automotive, aerospace, and general engineering
- Comparative case studies from China, South Korea, and Taiwan

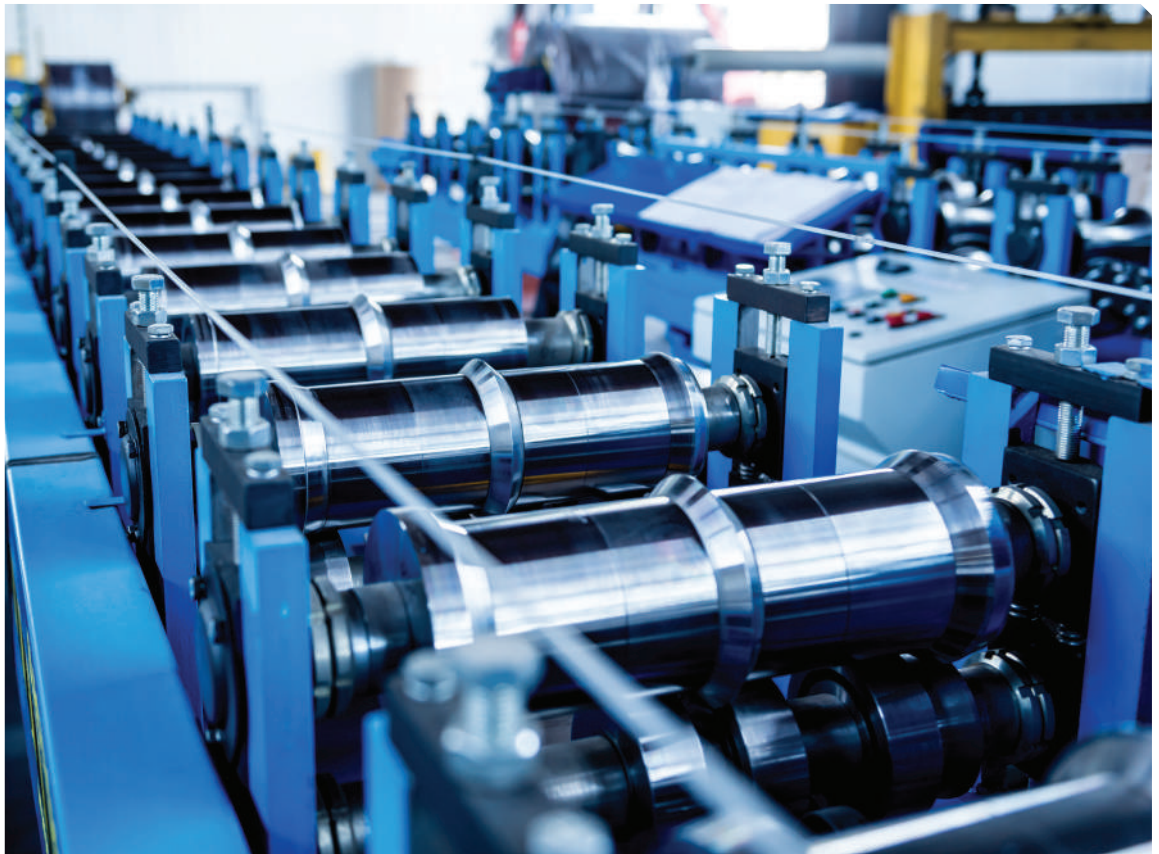
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IMTEX FORMING 2026 BECKONS MANUFACTURING GROWTH

IMTEX FORMING 2026 has evolved into more than an exhibition showcasing evolving trends and technologies in manufacturing; it is a celebration of technological brilliance, with machines and humans interacting in harmony. As metals are shaped and boundaries are bent, the future of manufacturing is being defined by scientific breakthroughs.



Source: Magic Wand Media

Bengaluru will once again come alive with industrial innovations as IMTEX FORMING, Asia's largest exhibition on metal forming and manufacturing technologies, unfolds, providing a compelling experience for the global manufacturing fraternity. Organized by the Indian Machine Tool Manufacturers' Association (IMTMA), the five-day spectacle

promises not just machines on display but a living, breathing celebration of human ingenuity and machine intelligence.

The Grand Stage

From January 21-25, 2026, the vast halls of the Bangalore International Exhibition Centre (BIEC) will transform into a confluence of innovation. Spread across four exhibition halls and covering ap-

proximately 48,000 sq mt of gross exhibition space, IMTEX FORMING 2026 will host 714 exhibitors, including partner associations from 24 countries.

Dedicated country pavilions from Germany, Italy, Japan, and Taiwan will further highlight global participation. Exhibitors from across these nations will showcase their latest technological advancements, reinforcing IMTEX

FORMING 2026's position as a truly international platform for metal forming technologies.

Technologies to Shape Tomorrow

IMTEX FORMING 2026 will showcase the full spectrum of metal forming excellence developed over the past two years. Visitors will have the opportunity to closely explore cutting-edge presses, press brakes, bending and shearing machines, advanced sheet metal forming solutions, stamping technologies, CNC punch presses, and laser and waterjet cutting systems.

The exhibition will also spotlight next-generation processes such as hot stamping, hydroforming, flow forming, and electromagnetic forming, while heavy-duty forging, extrusion, casting, and pressure die casting technologies will reaffirm their relevance in large-scale manufacturing.

The digital heartbeat of IMTEX FORMING will be widely evident through artificial intelligence (AI)-driven forming solutions, fibre laser machines, servo presses, precision levellers, pick-and-place units, production monitoring systems, and additive and hybrid manufacturing technologies. In addition, exhibitors will demonstrate how automation and robotics are redefining productivity, precision, and sustainability across metal forming operations.

As Mohini Kelkar, President, IMTMA, aptly notes, metal form-

ing presently accounts for 29 percent of the Indian machine tool market, and the segment is poised for strong growth. IMTEX FORMING 2026 mirrors this momentum, showcasing technologies that will empower Indian manufacturing to scale new heights in quality, capability, and competitiveness.

A Confluence of Shows

Enhancing the experience is a set of powerful concurrent and co-located events. Tooltech will delve into tooling systems, machine tool accessories, metrology, and CAD/CAM solutions. Digital Manufacturing will highlight Industry 4.0 and additive manufacturing in action, while WeldExpo, organized in collaboration with the Indian Institute of Welding (IIW-India), will spotlight the latest advancements in welding technologies.

Ideas Beyond the Exhibit Floor


IMTEX FORMING 2026 will extend beyond the machines showcased live in the exhibition halls, igniting ideas and shaping visitors' perspectives. The ninth edition of the International Seminar on Forming Technology, on January 22-23, 2026, will bring together global experts to discuss emerging trends in metal forming. To bridge the gap between academia and industry, the i2 Academia Square will unite premier institutions from across India to showcase academic research and development relevant to

manufacturing industries. For young engineering professionals, the Jagruti-IMTMA Youth Programme will provide a platform to engage with industry leaders and launch their careers. Similarly, the Manufacturing Technology Quiz Contest will add an element of intellectual excitement, testing knowledge and sparking curiosity among young engineers.

Reflecting on the technological shift, Jibak Dasgupta, Director General, IMTMA, observes that laser and laser-based applications, digital systems, and advanced forming technologies are witnessing rapid acceptance across industries. IMTEX FORMING 2026 will accelerate the journey towards high-productivity, homegrown manufacturing, and stronger exports.

A Resonant Finale

IMTEX FORMING 2026 promises to be more than an exhibition. With an expected 50,000 visitors from diverse industries, the event will serve as a beacon of India's manufacturing ambition, confidence, and creative energy.

As machines hum and ideas are exchanged, IMTEX FORMING 2026 will leave behind lasting impressions shaped by business deals, insightful technical exchanges, shared learning, and partnerships that will continue to influence manufacturing decisions long after the event concludes. Stay tuned for more updates. 

The metal forming segment presently accounts for 29% of the Indian machine tool market. IMTEX FORMING 2026 mirrors this momentum, showcasing technologies that will empower Indian manufacturing to scale new heights in quality, capability, and competitiveness.



Catalyzing Indian Manufacturing



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BUILDING THE NEXT-GENERATION WORKFORCE

India's manufacturing sector, which contributes nearly 17 percent of GDP, is entering a defining phase. With the right interventions, it can expand its share to 25 percent and create more than 100 million new jobs, positioning the country among the world's leading advanced manufacturing hubs.



Source: Magic Wand Media

Achieving this potential will require a workforce ready for rapid technological change. As factories modernize with automation and digital systems, the gap between industry needs and workforce readiness is widening, putting both new and existing roles at risk.

Skills Shortfall Threatening Industrial Growth

New opportunities in solar cell production, electric vehicles, batteries, electronics, and advanced machinery are expanding faster than the available talent pool. Even traditional shopfloor roles now demand the ability to work with robotics, AI tools, and connected factory

systems. As India moves toward a one-trillion-dollar manufacturing economy, an estimated 2.4 million specialized roles remain unfilled. Only 5 percent of the workforce has formal vocational training, and nearly two-thirds lack essential technical skills. Without timely action, productivity will suffer and industrial growth will slow.

Building a Future-Ready Workforce

Strengthening India's manufacturing workforce requires an integrated approach across skilling, reskilling, upskilling, apprenticeships, and degree apprenticeships. Workers need digital, mechanical, and data-handling abilities to operate in modern

factories. Reskilling helps them adapt as technologies evolve, while upskilling improves efficiency in roles linked to quality, automation, and maintenance. These pathways ensure workers stay relevant as production systems become more complex.

Apprenticeships play a central role by enabling young people to learn directly on the shopfloor while continuing their education. Many companies began with the mandatory 2.5 percent apprentice engagement requirement under the Apprentices Act, 1961, and later expanded it to the higher limit of 15 percent upon realizing the clear benefits in productivity, retention, and workforce continuity. Degree apprenticeships further com-

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bine academic learning with extended industry exposure, ensuring graduates enter the workforce with practical, job-ready capability. These models shorten the time it takes for new talent to contribute meaningfully and help organizations build steady internal pipelines.

A major shift is also underway in workforce inclusivity. As manufacturing becomes more skills-based and less dependent on physical strength, opportunities for women are expanding in technical, operational, and supervisory roles. Although women currently make up only 16.5

In manufacturing, opportunities for women are expanding in technical, operational, and supervisory roles.

percent of the manufacturing workforce, participation is rising as companies adopt gender-neutral hiring and invest in safe, supportive environments. Greater gender diversity strengthens talent availability and improves overall performance.

Government Measures Strengthening Workforce Readiness

Government initiatives are creating training ecosystems aligned with industry needs. The National Manufacturing Mission is helping build technical skills and embed advanced manufacturing practices across learning pathways. National apprenticeship programmes such as the National Apprenticeship Promotion Scheme (NAPS) and the National Apprenticeship Training Scheme (NATS) enable students and workers to learn through real-world experience while helping employers create structured training pipelines.

Future Outlook

To sustain long-term growth, India will need coordinated workforce planning supported by training infrastructure that reaches smaller towns and industrial regions. Public-private partnerships involving employers, training institutions, and state skill missions will be central to this effort. As manufacturing becomes more technology-driven and gender-neutral, expanding access to specialized skills and deepening industry-education linkages will be essential. A future-ready workforce built through continuous learning and apprenticeship pathways will power efficiency, innovation, and global competitiveness, laying a strong foundation for India's rise as a globally competitive manufacturing hub.

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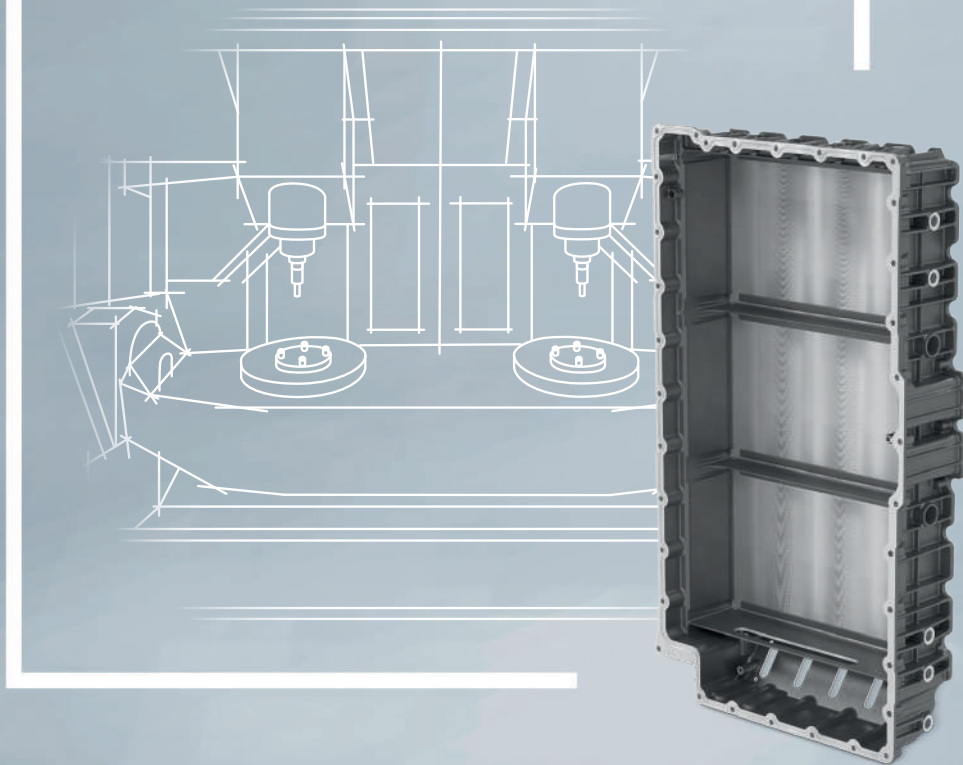
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CRAFTSMANSHIP IN THE AGE OF AUTOMATION

In manufacturing's digital era, it's easy to assume that software, robotics, and AI have rendered manual skill obsolete. The world's most advanced machine tool builders remind us otherwise: craftsmanship coexists with automation, not in spite of it, but because of it.



Today's manufacturing world is dominated by automation, multi-axis CNC machines, and AI-driven manufacturing and quality control. It may appear that human touch and craftsmanship have become outdated, relegated to history. However, the art of precision machine building continues to rely on human skill—especially for developing ultra-precision machines.

Traditional skills like hand scraping, alongside other manual expertise such as spindle assembly, guide-way matching, and thermal compensation awareness are still highly sought after in Japan and Europe in the ultra-precision machine building industry.

Hand Scraping: Where Craftsmanship and Precision Converge

One of the purest expressions of craftsmanship in machine tool manufacturing is hand scraping, a manual process still widely practiced by select ultra-precision builders. Hand scraping involves removing microscopic amounts of material from critical surfaces to achieve precise geometric behavior and surface characteristics unattainable by grinding or machining alone.

This highly skilled process works as follows:

- Initial machining or grinding brings a surface close to its nominal shape.
- A surface plate and marking medium identify high and low points.
- Craftsmen use a hand scraper to remove small irregularities.
- Repeated marking and scraping until the desired contact pattern and flatness are achieved.
- Precision instruments verify flatness, parallelism, and bearing points.

This produces surfaces with improved lubrication retention, reduced friction and true geometric alignment that provides better long-term stability and motion quality than manufacturing processes deliver.

YASDA's 'Kisage': Craft as Corporate Core
YASDA, one of the world's most respected ultra-precision machine builders, explicitly calls hand scraping part of its corporate core philosophy. Known in Japanese as 'Kisage', the art of scraping is considered not just a technique, but a

REJI VARGHESE
President
RV Forms & Gears
fngreji@gmail.com



philosophy of precision that pervades the company's entire culture.

At YASDA, every critical mating surface is scraped with sub-micrometer precision to ensure long-lasting performance, not just short-term accuracy. Hand scraping contributes to high bearing contact geometry, smooth slide motion, and vibration damping, all of which underpin the ultra-precision machining that YASDA machining centers are known for.

The word 'Takumi' refers to master craftsmen who have spent decades honing their skills. In companies renowned for ultra precision, such as those building high-end machining centers, jig borers, and grinding machines, Takumi are entrusted with the most critical processes – hand scraping of ways, spindle alignment, geometric calibration, thermal stability tuning, and the final 'feel of perfection' that no automated system can fully replicate.

These artisans don't simply follow tolerances; they refine machines until they exceed expectations, often tuning accuracy in microns through methods that combine science with lived, tactile wisdom. YASDA's commitment to hand scraping reflects a broader principle – true precision isn't just manufactured and measured, it's crafted.

Beyond Scraping: Other Dimensions of Craftsmanship

Craftsmanship manifests in several other artisanal competencies that modern manufacturing cannot easily replicate:

Spindle Mastery: Ultra-precision spindles require careful assembly, preload tuning, and inspection that extends beyond automated checks. The tactile feel and nuanced judgement of expert technicians ensure the spindle performs reliably across its entire speed range and temperature variations.

Guideway and Structural Matching: Precision machine tool geometry depends on how parts work together and not just how they are individually finished. Human fitting and assembly remain crucial for structural harmony, ensuring load paths, symmetry, and rigidity are balanced in actual operation.

Thermal Awareness: Modern machine tools manage thermal effects through design and control algorithms. The intuitive understanding of how materials behave with heat remains a tacit skill, embedded in how parts are assembled, mass is balanced, and cooling systems are integrated.

Human-Centered Inspection: Even with advanced metrology, from laser trackers to inter-

ferometry, human engineers interpret data, determine corrective actions, and make judgement calls that machines alone cannot decide, especially under real-world factory constraints.

Craftsmanship Meets Modern Technology

Today's machine tool industry uses ultra-precise metrology systems to verify features to sub-micron levels. There are thermal management systems that stabilize machine structures within $\pm 0.5^\circ\text{C}$ in operating conditions. Advanced spindle technologies like self-adjusting preload systems that maintain optimal contact through heat generation are commonly used. Yet even with these innovations, companies like YASDA still rely on craftsmanship because they believe that the last microns of precision often depend on the human hand and eye.

Why Craftsmanship Still Matters Today

In a global machine tool market driven by cost pressures, rapid throughput, and monthly sales targets, many builders have relegated manual finishing to history. However, companies that remain competitive at the highest tier of precision do not view craftsmanship as a cost; they see it as strategic risk mitigation.

Longevity: Hand-scraped surfaces and expertly assembled interfaces maintain accuracy over decades, not just months.


Stability: Crafted surfaces resist thermal and dynamic variation more effectively than fully automated processes alone.

Behavioral Precision: Real-world performance depends on how machines behave under load, something craftsmanship helps ensure.

When tolerances enter the sub-micron realm, craftsmanship isn't optional; it's differentiating.

Precision is Human and Technological

In manufacturing's digital era, it's easy to assume that software, robotics, and AI have made manual skill obsolete. The world's most advanced machine tool builders remind us otherwise: craftsmanship coexists with automation, not in spite of it.

YASDA's unwavering commitment to hand scraping, and the larger philosophy of meticulous human inspection and assembly, demonstrates that true precision is not merely engineered; it is crafted. In a marketplace where microns decide success, the human hand remains a quiet yet decisive guardian of geometric truth and long-term machine performance. 

Companies that remain competitive at the highest tier of precision do not view craftsmanship as a cost; they see it as strategic risk mitigation.

Reji Varghese is the President of RV Forms and Gears, one of India's oldest fixture building companies. He is also a guest writer for a number of national newspapers and magazines.

WINNING INDIA'S MARITIME SECURITY WITH MATERIALS

India's push for self-reliance in maritime systems, security, and operations is powered by indigenous innovation in advanced, defence-critical materials. By proactively understanding current challenges in protection and operational capabilities of the Navy and maritime agencies, materials science leaders such as CUMI are aligning ongoing research to usher in newer dimensions in design and performance.



Source: CUMI

India's ports and naval bases are the lifelines of the nation, handling over 90 percent of its trade by volume. Spread across a coastline of 11,098.81 km, these ports and bases are safeguarded by the Indian Navy, Coast Guard, and other agencies responsible for maritime security. The Indian Ocean has witnessed a rise in threats, including naval warfare, unprovoked aggression, pollution of Indian waters, terrorism, smuggling, illegal fish-

ing, and rebel attacks on trade vessels. To effectively counter and neutralize these threats while protecting the nation's interests, naval security systems need future-ready capabilities—both on the operational and fortification fronts.

Accordingly, the Indian Navy is rapidly modernizing, expanding its fleet size as well as operational capabilities. With plans for a larger naval fleet of 200 ships and 500 aircraft by 2050, the focus has shifted decisively

towards strategic preparedness. Such high-tech naval systems also require the most advanced protection in every area of operation. Whether from ballistics and blasts or fires, ships, submarines, naval helicopters, carrier vehicles, and shipyards require the latest, most robust safeguards.

Indigenously designed advanced ceramics and new-age materials are fast gaining ground as the most reliable in protecting the country's mar-

Subbu Venkatachalam
Head of Defence &
Aerospace
Carborundum
Universal Ltd (CUMI)



Poly Crystalline Diamond end mill for cemented carbide cutting

EPCDS

Epoch Shining Square

Features of EPCDS

- 01** Poly Crystalline Diamond end mill suitable for finishing of cemented carbide.
- 02** High-rigidity circular-arc-shaped cutting flute enables the maintenance of machining accuracy.
- 03** The multiple-flute effect realizes long tool life.

Circular-arc-shaped, high-rigidity cutting flute

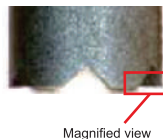


Poly Crystalline Diamond and a flute shape that increases flute rigidity enables a shiny machined surface and the maintenance of machining accuracy.



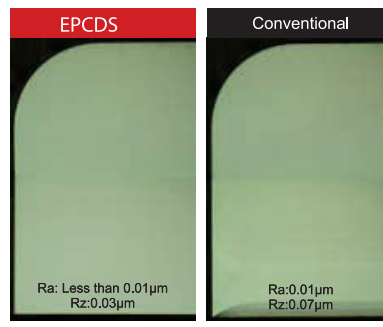
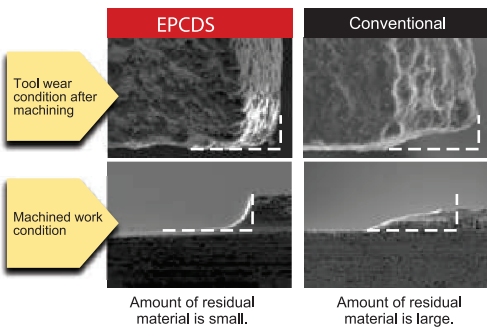
Field data

Work material : Cemented carbide (91HRA)
 Tool : EPCDS6010(φ 1mm)
 Cutting conditions : $n=40,000\text{min}^{-1}$ ($vc=125.6\text{m/min}$)
 $v_f=50\text{mm/min}$ ($fz=0.0002\text{mm/t}$)
 $ap \times ae=0.0005 \times 0.02\text{mm}$
 Cutting time : 40min.
 Coolant : Water base coolant



Field data

Work material : Cemented carbide (91HRA)
 Tool : EPCDS6010(φ 1mm)
 Cutting conditions : $n=40,000\text{min}^{-1}$ ($vc=125.6\text{m/min}$)
 $v_f=50\text{mm/min}$ ($fz=0.0002\text{mm/t}$)
 $ap \times ae=0.0005 \times 0.02\text{mm}$
 Cutting time : 120min.
 Coolant : Water base coolant

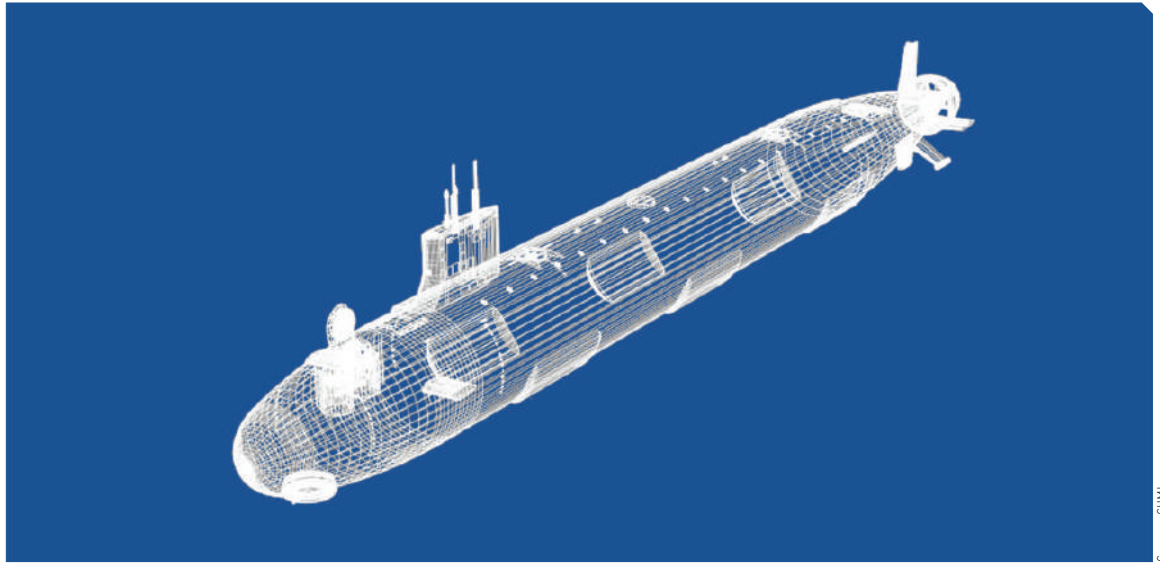


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Engineered to build as well as protect a future-ready naval fleet, indigenously designed advanced ceramics and new-age materials facilitate superior performance while ably fortifying the Navy's next-gen platforms and systems.



Source: CUMI

itime systems. Engineered to build as well as protect a future-ready naval fleet, these materials facilitate superior performance while ably fortifying the Navy's next-gen platforms and systems.

Strategic applications of indigenous materials in naval security

New-generation materials, advanced materials and composites are being increasingly deployed for naval defence across three mission-critical areas:

Blast- and fire-resistant infrastructure for naval bases and shipyards

Protecting naval bases and shipyards is a critical priority, as these facilities are central to maritime operations, fleet maintenance, and operational readiness. Persistent risks during instances of naval warfare include the rapid spread of localized fire, leading to blasts. Also, projectiles fired during intense maritime combat can severely disrupt operations and endanger the lives of naval personnel. Lightweight blast-proof and fire-proof composites, as well as armor-piercing bullet-

proof composite materials, are now vital to protect particularly vulnerable areas of ships.

Blast-resistant ceramic tiles and modular CFRP panels protect command centers, armories, and fuel depots. Fireproof composites do not emit smoke and also help contain the spread of fire to vulnerable areas like the boat hull; machinery-housing compartments; Petroleum, Oils, and Lubricants (POL) stores; galleys; and submarine battery pits. Apart from this, passive fire protection systems, such as CUMI's Fire Master Marine Plus Fiber Systems, are being deployed in bulkheads, ship decks, engine rooms, exhaust manifolds, and cabin doors. They provide additional layers of thermal and acoustic insulation for shipboard spaces.

Wind shield and gun mounts on large naval vessels and patrol boats can be fitted with bulletproof protective covers to shield them from gunfire. This protection extends to the ship's crew too, by minimizing the chances of the equipment exploding when hit.

These advanced materials make infrastructure far more resilient to attack and sabotage,

reduce maintenance demands, and ensure naval installations have an extended service life.

Retrofitting, and building modern warships with robust ballistic protection

Today's warships, both new builds and existing vessels, are getting a major upgrade thanks to advanced materials. Warships such as aircraft carriers, destroyers, frigates, as well as patrol boats require robust ballistic protection. This is especially true in the case of patrol boats which India produces in relatively large numbers. Since their smaller size makes them more vulnerable to gunfire, add-on composite ceramic armor panels are particularly useful to fortify them.

Conventional materials often limit speed and endurance capability in the face of ballistic threats and fire hazards. Composite armor panels and ceramic-based protection systems are being retrofitted onto key areas to improve fire and impact resistance.

Some of these areas are:

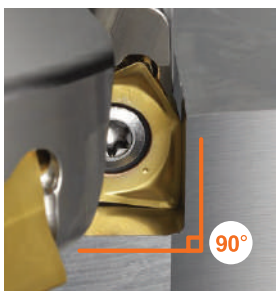
- Interiors of engine compartments

Double-Sided Insert Type Shoulder Mill

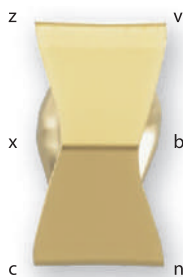
WWX Series

**Highly Rigid Body
for Excellent Performance**

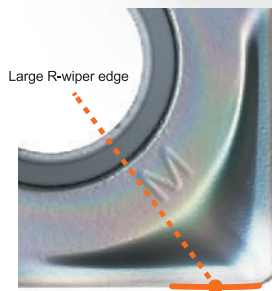
The "X-Type" insert shape provides economic efficiency as well as maintaining high quality surface finishes.



High-quality wall surface machining is possible.



Economical double-sided 6 corners.

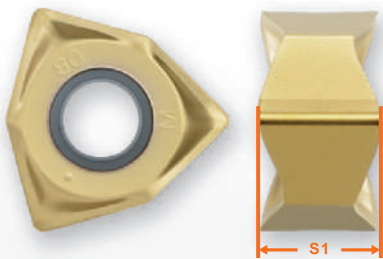


Large R-wiper edge achieves good surface finishes.



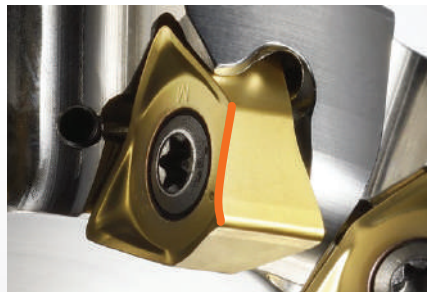
Strong **X** Geometry

The generous thickness of the insert provides high rigidity.

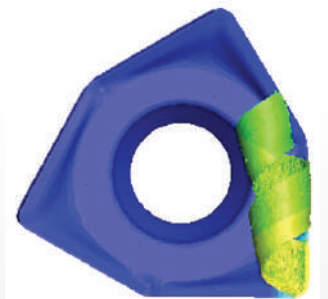


WWX200 6 mm
WWX400 9 mm

Excellent control and chip abrasion prevention.



Curved cutting edge shape designed with an optimum rake face.



Chips are created in a helical shape for efficient dispersal.

Optimised support under the insert and high clamping rigidity improves stability.

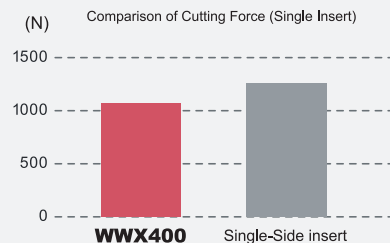


Radius geometry of the tool body behind the insert.



The conical shim surface and the M5 screw for WWX400, and the M3 screw for WWX200 provide a high damping force.

Low cutting resistance suppresses chatter vibration even for thin workpieces.



<Cutting Conditions>
 Material : JIS SCM440
 Cutter Dia. : DC=80 mm
 Cutting Speed : vc=160 m/min
 Feed per Tooth : fz=0.2 mm/t
 Depth of Cut : ap=2.0 mm
 Width of Cut : ae=64 mm
 Cutting Mode : Dry Cutting



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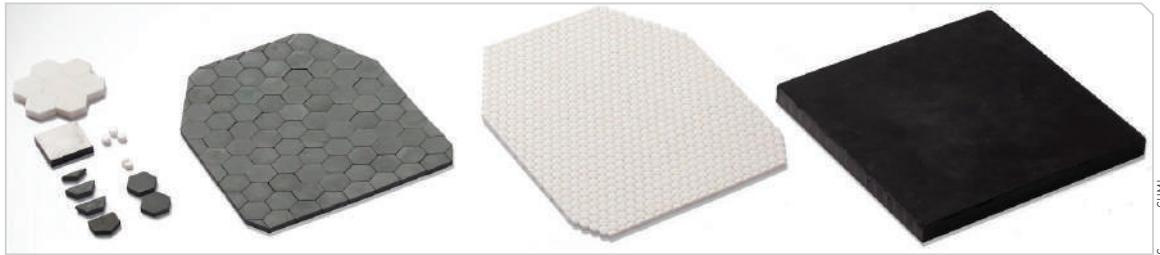
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YOUR GLOBAL CRAFTSMAN STUDIO

Amphibious and armored vehicles used in naval operations can be fitted with lightweight add-on armor panels made with advanced ceramics such as Reaction Bonded Silicon Carbide (RBSiC) and Zirconia Toughened Alumina (ZTA).



Source: CUMI

- Hangars for aircraft
- Gun mounts
- Interior and exterior of ship hulls

Being exceptionally lightweight, they help ships achieve higher manoeuvrability, greater speed, and lower maintenance cost over time.

These solutions also serve as a robust protective barrier against ballistic threats for mission-critical equipment such as radar radomes, main armaments, and other exposed essential systems. Adhering to the stringent requirements outlined by international protection standards, such as STANAG 4569, ensures such armor can effectively protect against a multitude of threats.

For newly constructed vessels, CFRP sheets, tubes, and custom parts make warships lighter, quicker, and easily manoeuvrable. Advanced ceramics are also deployed in missile components, radomes, and radar systems, enabling superior, reliable performance in challenging marine conditions. The use of the nanomaterial graphene can potentially help minimize the radar cross section, to avoid detection by enemy vessels.

Maritime systems can also benefit significantly from Resin Film Infusion (RFI) fabrication technique. RFI helps easily fabricate large, complex, asymmetrical composite structures such as fiber-reinforced polymer (FRP) bridges and boat hulls, econom-

ically. RFI is particularly useful in the design of hull-mounted sonar domes where acoustic transparency is vital. It can also augment resistance to impact, while enhancing the strength and durability of naval vessels.

The superstructures of Anti-Submarine Warfare (ASW) corvettes, currently built with foreign Glass-Reinforced Plastic (GRP) or Fiberglass-Reinforced Plastic (FRP), can be replaced with indigenous blast-, bullet-, and fire-proof materials to boost protection and support local industry. Meanwhile, tiles developed using speciality elastomers and advanced materials are being fitted to submarine hulls to reduce acoustic signatures. Research is ongoing to improve these even further.

Lightweight armor for land and water operations

Amphibious and armored vehicles used in naval operations can be fitted with lightweight add-on armor panels made with advanced ceramics such as Reaction Bonded Silicon Carbide (RBSiC) and Zirconia Toughened Alumina (ZTA). These new solutions, qualified to meet STANAG 4569 protection standards, ensure robust ballistic protection without the added weight. The result is armored vehicles that remain highly mobile and effective across both land and naval operations.

Composites and ceramics are also being used in underwater vehicles, as well as fast patrol


boats, boosting payload, corrosion resistance, and mission endurance. These upgrades help secure coastal and island bases, ensuring operational readiness at all times.

For landing craft, research is underway to upgrade hulls and operator cabins with blast- and bullet-proof materials, providing better protection against mines and gunfire. This is particularly crucial for amphibious assaults and naval security missions.

On the cards for marine commands are bulletproof jackets and helmets that are 10-20 percent lighter and bulletproof shields almost 50 percent lighter but with multi-hit capability. This will not only result in greater agility but also improved combat effectiveness.

Turning the tide with indigenous materials innovation

India's push for self-reliance in maritime systems, security, and operations is powered by indigenous innovation in advanced, defence-critical materials. By proactively understanding current challenges in protection and operational capabilities of the Navy and maritime agencies, materials science leaders such as CUMI are aligning ongoing research to usher in newer dimensions in design and performance.

As we move closer to our 2047 goal, this will help to build a modern, resilient, self-sufficient maritime defence ecosystem for the custodians of our oceans. 

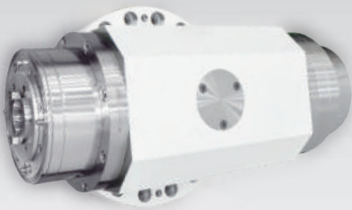
High Precision Spindles Total Solutions



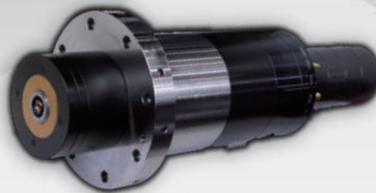
Belt-Drive Spindle - Milling



Direct-Drive Spindle



Motorized Spindle - Multi-Spindle



Motorized Spindle - Milling (40000 rpm)



Motorized Spindle - Milling



Belt-Drive Spindle - Turning



Motorized Spindle - Turning



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IMTEX FORMING 2026: SHAPING THE FUTURE OF INDIA'S METAL FORMING INDUSTRY

IMTEX FORMING has confirmed its position as the most significant platform for metal forming technologies in India. Along with showcasing advanced machines and solutions, the exhibition brings together exhibitors, industry associations, and international participants to engage with the Indian manufacturing market. Their perspectives show how the event continues to evolve in scale, relevance, and impact, reflecting the changing priorities of global and domestic manufacturing.



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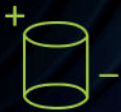
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At IMTEX FORMING 26, visitors will have the opportunity to explore cutting-edge presses, press brakes, bending and shearing machines, stamping technologies, CNC punch presses, and laser and waterjet cutting systems.

Organized by the Indian Machine Tool Manufacturers' Association (IMTMA), the five-day event promises not just machines on display, but a celebration of manufacturing ingenuity, technology evolution, and industry collaboration.

From January 21-25, 2026, IMTEX FORMING 2026 will span four exhibition halls at the Bangalore International Exhibition Centre (BIEC), covering approximately 48,000 sq mt of gross exhibition space, and host 714 exhibitors, including partner associations from 24 countries. Dedicated country pavilions from Germany, Italy, Japan, and Taiwan will further underscore the show's global stature, with exhibitors showcasing their latest technological advancements and reinforcing IMTEX FORMING's position as a truly international platform for showcasing metal forming technologies.

Reflecting on the significance of the exhibition, Mohini Kelkar, President, IMTMA, notes that metal forming currently accounts for 29 percent of the Indian machine tool market, and the segment is poised for strong growth. "IMTEX FORMING 2026 mirrors this momentum, showcasing technologies that will empower Indian manufacturing to scale new heights in quality, capability, and competitiveness," she adds.

Presenting an insight into the Indian machine tool industry's evolution and the event's contribution to it, Jibak Dasgupta, Director General & CEO, Indian Machine Tool Manufacturers' Association and BIEC, remarks that the industry is entering a defining phase of its evolution, driven by rising domestic demand. Industry stakeholders increasingly recognize that long-term competitiveness is built not only on scale, but also on control over



"Metal forming presently accounts for 29% of the Indian machine tool market, and the segment is poised for strong growth. IMTEX FORMING 2026 mirrors this momentum, showcasing technologies that will empower Indian manufacturing to scale new heights in quality, capability, and competitiveness."

Mohini Kelkar
President
Indian Machine Tool
Manufacturers' Association

core technologies. "This shift—from scale to capability—marks a significant maturation of the ecosystem. I am sure that IMTEX FORMING 2026 is set to play a vital role in this journey by serving as a catalyst that connects ideas with execution and ambition with opportunities," he adds.

Showcasing Metal Forming Excellence

IMTEX FORMING 2026 will showcase the full spectrum of metal forming innovations. Visitors will have the opportunity to explore cutting-edge presses, press brakes, bending and shearing machines, stamping technologies, CNC punch presses, and laser and waterjet cutting systems.

The exhibition will also spotlight next-generation processes such as hot stamping, hydroforming, flow forming, and elec-



"The shift—from scale to capability—marks a significant maturation of the ecosystem. I am sure that IMTEX FORMING 2026 is set to play a vital role in this journey by serving as a catalyst that connects ideas with execution and ambition with opportunities."

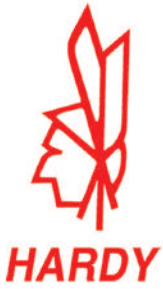
Jibak Dasgupta
Director General & CEO
Indian Machine Tool
Manufacturers' Association &
BIEC

tromagnetic forming, alongside heavy-duty forging, extrusion, casting, and pressure die casting technologies that continue to play a critical role in large-scale manufacturing.

The digital heartbeat of IMTEX FORMING 2026 will be evident through AI-driven forming solutions, fiber laser machines, servo presses, precision levelers, production monitoring systems, and additive and hybrid manufacturing technologies. Automation and robotics will feature prominently, demonstrating how productivity, precision, and sustainability are being redefined across metal forming operations.

Why IMTEX FORMING Continues to Matter

For exhibitors, IMTEX FORMING remains far more than an exhibition for displaying their



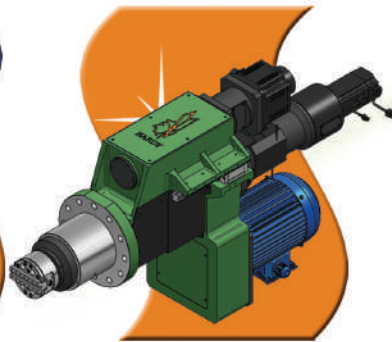
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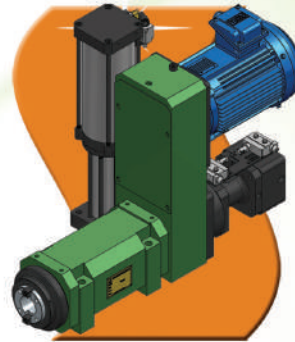
Booth : HALL A - 43
PRECITECH 3.0
 Precision Engineering, Machine Tools & Machining Technology Show
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CNC Drilling Tapping Spindle



Facing Surfacing Spindle - Linear Rail Type



Auto Clamp Spindle



Direct Magnetic Servo Motor Spindle



Built-in Spindle



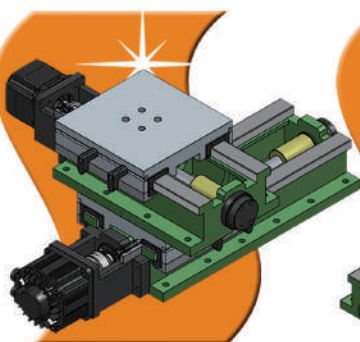
Belt Driven Spindle



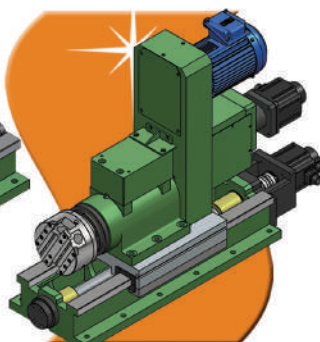
Belt Driven Spindle Coolant



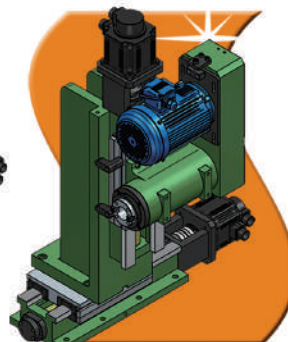
Direct Drive Spindle



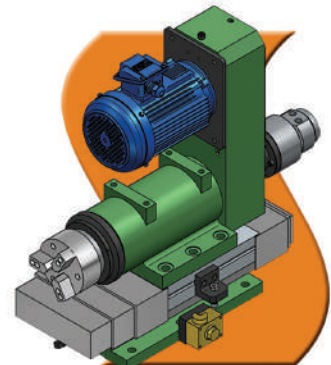
XY Servo Hardness Slide Unit



Servo Facing Head +
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3-Jaw Chuck Spindle + Slide Unit



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Beyond product visibility, IMTEX plays a critical role in strengthening long-term partnerships across the manufacturing value chain by enabling direct engagement with customers, suppliers, vendors, and industry leaders.



“Rather than positioning IMTEX as merely a launch-oriented event, we see it as a stage to validate our technologies in front of experienced manufacturers who assess machines based on performance, build quality, and long-term stability.”

Niraj Seth
Director & CEO
Durma India

offering—it is a platform for validation, engagement, and long-term strategy.

Having participated in almost every edition since 2000, IMTEX has consistently enabled AMADA to strengthen customer relationships, engage with emerging fabricators, and align its offerings with evolving market needs. At IMTEX 2026, the company will present a wider portfolio with the participation of its group companies—Amada Weld Tech, Amada Press Systems, and H&F.

“IMTEX FORMING is the largest sheet metal machinery related exhibition in India. It gives us a strong platform to connect with our existing customers, engage with new players entering sheet metal fabrication, and better understand the market as we plan our expansion,” says Edwin Sequeira, President, AMADA (India) Pvt Ltd.



“IMTEX FORMING facilitates direct engagement with customers, suppliers, vendors, and industry leaders, while also offering exposure to new technologies and potential collaborators that may not be easily identified elsewhere.”

Yogesh Saxena
Chief Executive
ISGEC Heavy
Engineering Ltd

For Durma India, IMTEX FORMING 2026 represents visibility backed by substance. According to Niraj Seth, Director & CEO, the exhibition is a stage to demonstrate reliability, engineering depth, and long-term commitment to the Indian market.

“Rather than positioning IMTEX as merely a launch-oriented event, we see it as a stage to validate our technologies in front of experienced manufacturers who assess machines based on performance, build quality, and long-term stability,” he notes.

For ISGEC Heavy Engineering Ltd, participation at IMTEX has evolved from showcasing individual products to presenting comprehensive solutions that reflect engineering depth and technological advancement.

“The platform has enabled us to demonstrate not only our presses and related equipment, but also our growing capabilities in



“IMTEX FORMING is the most important platform reflecting the strength and maturity of the Indian machine tool industry. Every edition brings together manufacturers, technology providers, users, and innovators, showcasing how the Indian manufacturing industry continues to grow.”

D Shanmugasundaram
Managing Director
S&T Machinery Pvt Ltd (STM)

automation, new technologies, and integrated manufacturing solutions that address emerging industry needs,” says Yogesh Saxena, Chief Executive, ISGEC Heavy Engineering Ltd.

For Radcam Technologies, IMTEX remains a vital platform for face-to-face engagement. “Meeting prospects who share the same growth vision is a key reason we participate in IMTEX,” says Shiddhalinges (Siddhu) Jolad, Managing Director, Radcam Technologies.

Having participated consistently over the past six years, Radcam has steadily built positive brand awareness through the exhibition. “IMTEX has always been good for us—the quality and quantity of visitors are consistently top-notch,” he adds.

From the perspective of Saha-Janand Laser Technology Ltd (SLTL), IMTEX FORMING is a legacy platform. Maulik Patel,



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IMTEX FORMING 2026 continues to attract strong participation from international machine tool associations, underlining India's importance as a manufacturing destination.



“Meeting prospects who share the same growth vision is a key reason we participate in IMTEX. The exhibition enables us to strengthen relationships with existing customers while building new connections through direct, face-to-face interactions.”

Shiddhalingesh (Siddhu) Jolad
Managing Director
Radcam Technologies

Executive Director, notes that SLTL has been associated with the show since the 1990s, and has been consistently leveraging the stage to introduce new technologies.

He adds that rising customer expectations for faster deliveries, better quality, lower costs, and global standards have placed increasing pressure on the sheet metal fabrication industry—an evolution reflected clearly at IMTEX FORMING 2026 through the convergence of forming, laser cutting, automation, digital intelligence, and Industry 4.0.

For S&T Machinery Pvt Ltd (STM), IMTEX FORMING has always been much more than an exhibition. “It is the most important platform reflecting the strength and maturity of the Indian machine tool industry. Every edition brings together manufacturers, tech-



“Having participated in almost every edition since 2000, IMTEX FORMING has consistently enabled AMADA to strengthen customer relationships, engage with emerging fabricators, and align its offerings with evolving market needs.”

Edwin Sequeira
President
AMADA (India) Pvt Ltd

nology providers, users, and innovators, showcasing how the Indian manufacturing industry continues to grow,” says D Shanmugasundaram, Managing Director, STM.

International Associations at IMTEX FORMING 2026

IMTEX FORMING 2026 continues to attract strong participation from international machine tool associations, underlining India's importance as a manufacturing destination.

Amid an increasingly unstable global political and economic environment, Taiwan's machinery industry is actively seeking to deepen its presence in India. IMTEX FORMING 2026 provides an important platform for Taiwanese and Indian companies to strengthen collaboration in advanced forming technologies and automation.



“IMTEX FORMING 2026 is not just a trade show—it is a legacy platform. SLTL has been associated with the show since the 1990s, and it has consistently been the stage where we introduce new technologies to the manufacturing industry.”

Maulik Patel
Executive Director
Sahajanand Laser Technology Ltd (SLTL)

“IMTEX Forming 2026 offers an important opportunity for Taiwanese manufacturers to engage more closely with the Indian market and explore long-term collaboration,” says Tommy Hsu, President, TAMI.

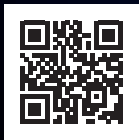
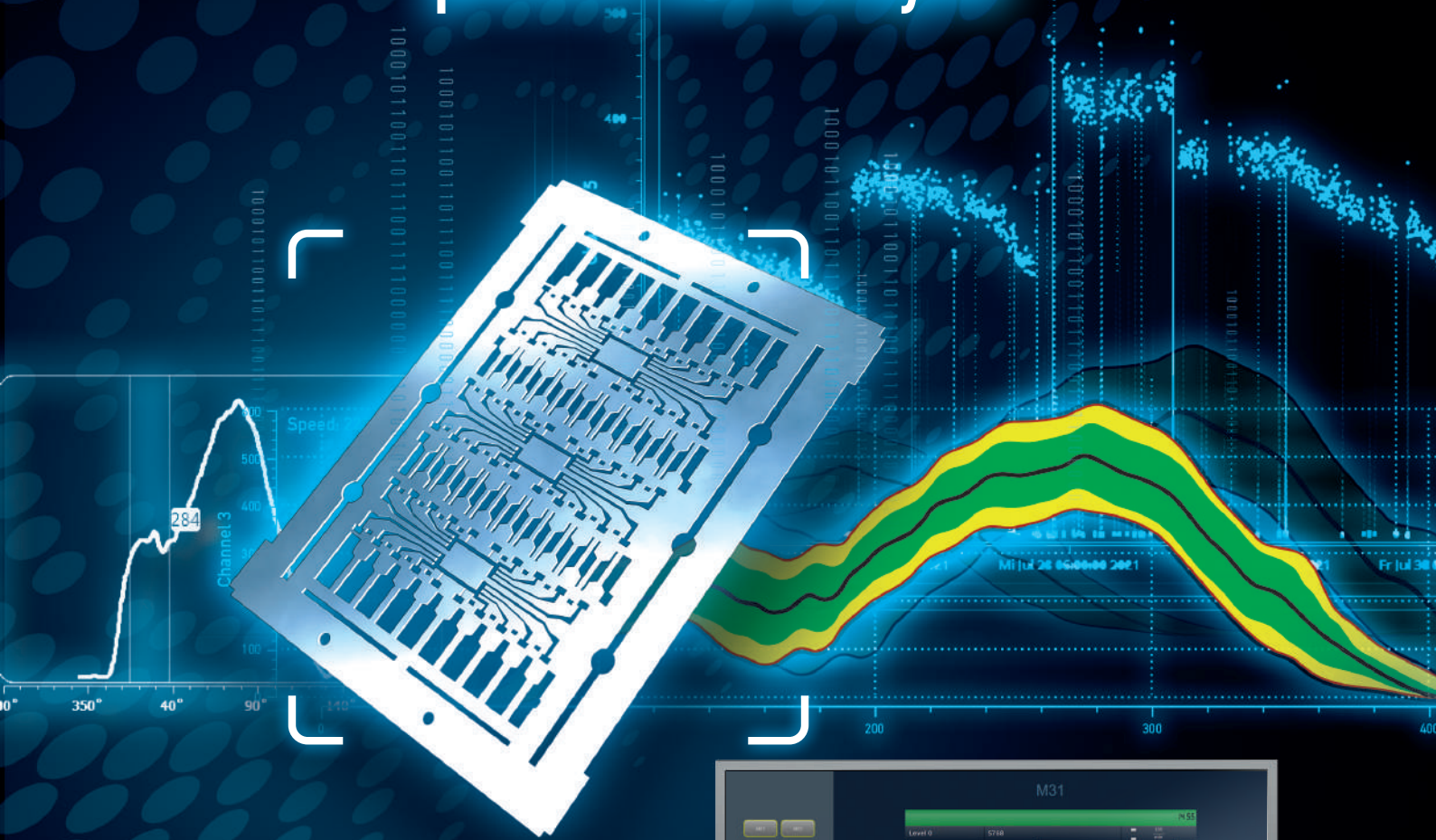
Ten Taiwanese companies are exhibiting at the Taiwan Pavilion in Hall 5, with several others participating through local branches or authorized agencies.

For the Italian machine tool industry, India represents one of the most promising export destinations. Riccardo Rosa, President, UCIMU-SISTEMI PER PRODURRE, describes IMTEX FORMING as the “first and primary marketing tool” for Italian companies in distant markets, enabling collaboration and deeper engagement.

Italy's leadership in sheet metal forming machinery is well established, with the coun-

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The post-process data evaluation offers the possibility to analyze and evaluate the entire process data for the first time. Important conclusions can be found about process variation, setting of monitoring limits and recognition of process influences during the whole production run. The knowledge acquired is helpful in determining the optimum process parameters and provides detailed conclusions about tool wear.



MARPOSS

ISFT 2026's carefully curated agenda reflects the growing need to link advanced research with real-world manufacturing outcomes, reinforcing IMTMA's role as a catalyst for industry growth.



“IMTEX FORMING 2026 provides an important opportunity for Japanese companies to understand India's current market situation and future demand. Around 20 to 25 JFMA-affiliated companies will participate in the event, with several already operating local subsidiaries in India.”

Yuki Nagata
Department Manager
Japan Forming Machinery Association

try ranking second globally in production. Around 20 Italian companies are participating at IMTEX FORMING 2026, keen to expand their footprint in India. The Japan Forming Machinery Association (JFMA) also views IMTEX FORMING 2026 as a strategic opportunity. “IMTEX FORMING 2026 provides an important opportunity for Japanese companies to understand India's current market situation and future demand,” says Yuki Nagata, Department Manager, JFMA, adding that 20 to 25 JFMA-affiliated companies will participate, with several already operating local subsidiaries in India.

Concurrent Events and Knowledge Platforms

Enhancing the exhibition experience is a set of powerful con-



“IMTEX FORMING 2026 is the ‘first and primary marketing tool’ for Italian companies in distant markets, enabling collaboration and deeper engagement. Around 20 Italian companies are participating in the event, keen to expand their footprint in India.”

Riccardo Rosa
President
UCIMU-SISTEMI PER PRODURRE

current and co-located events. Tooltech will focus on tooling systems, machine tool accessories, metrology, and CAD/CAM solutions. Digital Manufacturing will highlight Industry 4.0 and additive manufacturing, while WeldExpo, organized in collaboration with IIW-India (The Indian Institute of Welding), will spotlight advancements in welding technologies.

ISFT 2026

Running concurrently with IMTEX FORMING 2026, the 9th International Seminar on Forming Technology (ISFT 2026) will take place on January 22-23, 2026, at BIEC. Positioned as one of the most influential knowledge platforms in the manufacturing calendar, ISFT 2026 is expected to attract over 250 delegates from India and abroad.




“Through participation in the exhibition, Taiwanese manufacturers can enhance engagement with Indian customers, interact with local system integrators, and gain deeper insights into India's evolving manufacturing needs, including smart manufacturing and automated forming solutions.”

Tommy Hsu
President
TAMI

With participation from sectors such as automotive, aerospace, defence, and die & mold, ISFT serves as a critical convergence point for manufacturing leaders, researchers, and solution experts. The two-day seminar will feature keynote sessions, technical presentations, and a high-level panel discussion addressing advanced materials, digitalization, automation, sustainability, and smart manufacturing.

Highlighting India's Manufacturing Ambition

With an expected 50,000 visitors from diverse industries, IMTEX FORMING 2026 promises to be more than an exhibition. It once again aims to serve as an ideal platform to showcase India's manufacturing strength and enable stakeholders to seize new opportunities. 

Organiser



Indian Machine Tool
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IMTEX FORMING 2026

International Forming Technology Exhibition

21 - 25 JANUARY, 2026

BIEC, BENGALURU

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International Seminar on
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Concurrent Shows



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



International Exhibition on
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FORMING THE FUTURE, TODAY

With the aim to enhance India's manufacturing ecosystem through knowledge, collaboration, and global best practices, the Indian Machine Tool Manufacturers' Association (IMTMA) has announced the 9th International Seminar on Forming Technology (ISFT 2026), on January 22-23, 2026, at Bangalore International Exhibition Centre (BIEC). The seminar will run concurrently with IMTEX FORMING 2026, IMTMA's flagship exhibition dedicated to metal forming technologies.



Opening Ceremony of ISFT 2024

Source: Magic Wand Media

Positioned as one of the most influential knowledge platforms in the manufacturing calendar, ISFT 2026 is expected to attract over 250 delegates from India and abroad. The seminar arrives at a time when forming technologies are rapidly transforming, driven by advanced materials, digitalization, automation, and sustainable imperatives.

With participation from sectors such as Automotive, Aerospace, Defence, and Die & Mold, the seminar serves as a critical convergence point for manufactur-

ing leaders, technology providers, researchers, and solution experts as they navigate the next stage of industrial development.

Linking Insight to Impact

The two-day Seminar has been meticulously curated for high-level decision-makers and technical experts, including manufacturing and production heads, plant managers, tooling and die professionals, and design and R&D experts, as well as specialists in quality, metrology, and process improvement. The agenda reflects the growing

need to couple advanced research with real-world manufacturing outcomes.

Agenda with Intent

The ISFT 2026 seminar will feature a robust mix of two keynote presentations, 12 technical presentations, and a thought-provoking panel discussion, encompassing the most disruptive and opportunity-rich trends in metal forming.

The first day of the Seminar will feature an inaugural and keynote session on 'Innovation, Collaboration, and Skill - The Trifecta for

India's Manufacturing Future' by FR Singhvi, Joint Managing Director, Sansera Engineering.

The technical sessions will delve into topics such as 'Agentic Digital Twins for Intelligent Sheet Metal Forming' by IIT Bombay; 'Tube Hydroforming of Next Gen Automotive Exhaust Parts' by Electro Pneumatics & Hydraulics; 'High Performance Presses for Aerospace and Defence Industries' from FICEP SpA; and 'Current Implementation of Additive Manufacturing in the Indian Aerospace Sector and its Critical Qualifications' by Objectify Technologies.

Day Two includes a high-level panel discussion on 'Driving India's Manufacturing Competitiveness: Role of Advanced Forming Technologies in the Era of Smart Manufacturing'.

Technical presentations will explore 'Press hardening - History and Trends' by AP&T; 'Optimizing Tool Steel and PVD Coatings for Efficient High-Tensile Sheet Forming with Reduced Lubricant' by Voestalpine High Performance Metals India, and 'Friction Assisted Technology Machines for Parts Manufacturing & Research' by RV Machine Tools.

In addition, Hindalco will discuss 'High-Strength Aluminium 7000 Series Sheetmetal: Analysing the Demand, Manufacturing Constraints, and Roadmap for Indigenous Production'; Fronius India will explore 'Joining Dissimilar Metals through Welding Solutions for Mixed Materials', and the most important topic on sustainability will be presented by ISGEC - 'Improving Energy Efficiency in Metal Forming Through Advanced Press Design and Automation'.

Blueprints for Progress

ISFT 2026 is structured around focused knowledge tracks, covering forming processes, Manufacturing 4.0, automation & robotics for press lines, engineering intelligence, and future-ready forming technologies. Topics such as hot stamping advances, high-speed stamping challenges, advanced formability simulations, and tool design for UHSS parts reflect the depth and relevance of the program.

The speaker roster features a strong mix of industry and academic expertise, including representation from Sansera Engineering, AP&T Sweden, IIT Bombay,

Objectify Technologies, FICEP, Ficep Tech India, RV Machine Tools, Yaskawa India, Fronius India, and Jay Bharat Maruti.

Learning Goes Live

A key takeaway for seminar delegates is exclusive access to IMTEX FORMING 2026, running from January 21-25, 2026. This offers participants the opportunity to gain strategic insights through keynote presentations from industry leaders and technology pioneers and track the latest global trends and developments in forming technology. It also enables them to exchange ideas and concepts with peers, decision-makers, and OEMs, as well as bridge the gap between theory and practice by witnessing live machinery and discussing technologies.

The seminar, with its carefully balanced program, supports IMTMA's role as a catalyst for industry growth. In a nation focusing keenly on advancing manufacturing and global competitiveness, ISFT 2026 stands out as a crucial platform for ideas, insights, and industry-wide collaboration, reflecting the transformation underway in forming technology. 

ISFT 2026 scheduled on January 22-23, 2026, at BIEC, Bengaluru, will feature a high-octane panel discussion and 12 technical presentations, and host over 250 delegates keen to explore breakthroughs in forming technologies.





Indian Machine Tool
Manufacturers' Association

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TECHNOLOGY LEADERS PRESENT INNOVATIONS AT IMTEX FORMING 2026

IMTEX FORMING has been serving as a key platform for leading manufacturers and technology providers to showcase their latest innovations. The forthcoming edition of the expo will spotlight advanced manufacturing solutions, including laser welding automation, plate rolling machines, gantry high-speed presses, robotic CNC press brakes, industrial robots, laser cutting systems, automation solutions, FMCs, and composite cutters, designed to enhance precision, productivity, energy efficiency, and process automation across a wide range of industrial applications.

RV Forms and Gears LLP | www.formsandgears.com | Hall & Stall: 4/B-133

AUTOMATION & MANUFACTURING SOLUTIONS

RV FORMS & GEARS BRINGS INNOVATIONS TO IMTEX FORMING 2026

RV Forms & Gears, an ASM Technologies Group company, delivers comprehensive automation and manufacturing solutions that integrate advanced laser technologies, robotics, and intelligent process control. Its systems are engineered to enhance weld quality, reduce cycle times, and significantly improve operational safety, while ensuring precision, repeatability, and high productivity.

RV Forms and Gears specialize in laser welding automation for critical industrial applications, providing clean, strong, and distortion-free welds that meet demanding quality standards. As the industry transitions toward electric mobility, the company offers complete EV manufacturing solutions under one roof, including battery cell welding for cylindrical, prismatic, and pouch cells, laser ablation and terminal cleaning, and dissimilar material welding such as multi-material busbar assemblies.

With a legacy spanning over five decades, RV Forms & Gears is one of India's oldest and most respected fixture building companies. Its state-of-the-art design and manufacturing facilities in Guindy, Chennai enable it to support customers with world-class engineering, reliable execution, and innovative automation solutions that align with the future of manufacturing.

Visitors to IMTEX FORMING 2026 can explore RV Forms & Gears' comprehensive portfolio of laser welding automation and EV manufacturing solutions tailored for high-precision applications.



Batliboi Ltd and Promau DAVI S.r.l.
www.batliboi.com / www.davi.com | Hall & Stall: 4/B-108

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AI-Vision - It is an Artificial Intelligence laser-based radius measurement system that enables automatic feedback, self-correction, and continuous quality control.

With these technologies working in unison, the rolling process becomes largely independent of human intervention. The machine continuously measures, corrects, and optimizes operations on its own.

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Ming Xu (Dongguan) Precision Machinery Co., Ltd
www.mingxupress.com | Hall & Stall: 5/A-111

GANTRY HIGH-SPEED PRESSES

CHD SERIES FOR DELIVERING JIS SUPER- GRADE ACCURACY

The CHD Series Gantry Double Plungers Precision High-Speed Press, from Ming Xu (Dongguan) Precision Machinery, is engineered to meet the stringent demands of high-precision applications such as stator rotors and terminals. Designed to deliver JIS super-grade accuracy, the Series features a robust gantry-type frame optimized via Finite Element Analysis (FEA). The high-strength cast iron structure undergoes rigorous annealing and Vibratory Stress Relief (VSR), ensuring long-term rigidity and significantly less deflection than traditional C-frame presses.

At the core of its stability is an advanced oil cooling system that regulates internal thermal balance, preventing expansion and maintaining Bottom Dead Center (BDC) consistency. Coupled with a tailored counter-dynamic balancing system, the press effectively compensates for upper die rebound, ensuring smooth operation even at high speeds.

Operational efficiency is maximized through user-centric features, including electric die height adjustment, a hydraulic slide locking device for enhanced safety, and a centralized crank lubrication system to eliminate pipe breakage risks. Controlled via an intuitive PLC interface, the CHD Series is the ultimate solution for manufacturers seeking reliability, safety, and next-generation precision.



Sinar Sheetmetal Solutions Pvt Ltd
www.sinarsolution.com | Hall & Stall: 4/B-114

ROBOTIC CNC PRESS BRAKES

PBCH 3110 FOR HIGH-PRODUCTIVITY MANUFACTURING ENVIRONMENTS

The PBCH 3110 is a 100-tonne, 3m CNC press brake engineered for precision metal bending and high-productivity manufacturing environments. Integrated with a FANUC industrial robot, this automated bending solution delivers exceptional repeatability, consistent bend accuracy, and higher output, making it ideal for repetitive or high-volume production.

By automating sheet handling and bend cycles, the PBCH 3110 significantly reduces operator fatigue and minimizes dependence on manual labor, while its advanced CNC controller ensures simple programming and reliable performance. Built on a rigid mechanical structure with a robust hydraulic system, the PBCH 3110 enables manufacturers to achieve safer operations, stable quality, and efficient production – without compromising bending performance.



FANUC India Pvt Ltd | www.fanucindia.com | Hall & Stall: 4/C-101

INTELLIGENT AUTOMATION SOLUTIONS

FANUC – DRIVING THE NEXT GENERATION OF INTELLIGENT AUTOMATION

FANUC, a global leader in factory automation, continues to shape the future of smart manufacturing with its latest range of industrial robots and breakthrough technologies.

At IMTEX FORMING 2026, FANUC will showcase how its intelligent automation solutions are transforming the metal forming landscape through AI-based systems, a next-generation robot controller, an innovative metal joining process, and advanced vision-based inspection systems.

Built on FANUC's proven philosophy of being reliable, predictable, and easy to repair, these technologies deliver unmatched uptime, precision, and lifecycle value. The new generation of FANUC robots integrates intelligence and connectivity, enabling data-driven manufacturing with enhanced quality, flexibility, and efficiency across diverse applications.

FANUC's unwavering Service First approach ensures that customers receive world-class support throughout the lifecycle of their automation systems, reinforcing trust and long-term partnership.



Messer Cutting Systems India Pvt Ltd | Hall & Stall: 5/A-110
www.in.messer-cutting.com/products/machines/element400l

LASER CUTTING MACHINES

ELEMENT 400 L, A VERSATILE LASER SOLUTION

The ELEMENT 400 L is Messer's flagship large-format laser cutting machine, engineered to meet the demanding needs of modern metal fabrication. Built on a modular machine platform, it offers unmatched flexibility, allowing manufacturers to configure according to their specific requirements.

Advantages

The ELEMENT 400 L excels in bevel laser cutting processes, ensuring perfect cuts for both serial tasks in continuous operation and special tasks. The steel crossbeam and X-axis structure feature precision-machined surfaces and linear ways, providing maximum stability and smooth, stable motion.

Equipped with AC servo drives and premium quality planetary gearboxes, the machine delivers maximum simultaneous positioning speeds and virtually eliminates backlash for smooth, repeatable motion. A hydraulic up/down enabled shuttle system allows for single-level bevel cutting, achieving faster cut jobs with high accuracy.

The machine offers highly accurate programmable positioning with flexible processing options, making it compatible with proven bevel processes for weld preparations. A parallel exchange table provides elevated productivity by enabling faster exchange of pallets, keeping the machine uptime high.

Technical Highlights

The system features a positioning speed of up to 50 m/min to significantly reduce cycle times. Digital AC servo drives are paired with precision gearboxes on the X and Y axes, while a robust beam supported by linear motion guides in both axes delivers consistently superior cut quality.

The compact machine design incorporates fully concealed cables and hoses. Reliable height control enhances nozzle life and maintains high-quality cutting performance, even during extended operations. Built on a modular platform, the machine can be configured to suit specific size and application requirements and supports laser power levels of up to 40 kW. Additionally, a sure-stop collision protection system safeguards the torch.



Chennai Metco Pvt Ltd | www.chennaimetco.com | Hall & Stall: 3A/127

COMPOSITE CUTTERS

CHENNAI METCO'S COMPOSITE CUTTING MACHINES

Rapid technological advancements in manufacturing are driving the adoption of advanced materials and specialized processing methods. Composites have emerged as a critical material choice for demanding applications across sectors such as Wind Energy, Nuclear Engineering, Aerospace, and Missile Manufacturing. Fiber-reinforced and carbon composites, in particular, are now widely used due to their high strength-to-weight ratio and durability.

However, sectioning composite sheets requires specialized cutting solutions. Chennai Metco addresses this requirement with CNC-controlled diamond slicing machines, developed exclusively for composite cutting applications.

These machines offer multi-axis cutting capability in the X, Y, and Z directions, providing customers with the flexibility to extract specimens for material testing or cut composite sheets into desired sizes for further processing. Achieving accurate and distortion-free sectioning demands sophisticated technology, an area where Chennai Metco brings decades of expertise and experience.

Apart from catering to applications in India, Chennai Metco's composite cutting machines are exported worldwide and are used extensively in scientific research, space programs, missile production, and wind energy manufacturing.



FLEXIBLE MANUFACTURING CELLS

MURATEC'S COMPACT FMC MOTORUM 3048TG WITH FS2512

Murata Machinery, Ltd (Muratec) offers the Compact Flexible Manufacturing Cell (FMC) Motorum 3048TG integrated with the FS2512 full sheet load/unload system, delivering a high-performance solution based on the latest servo turret punch press technology.

Muratec's Motorum-3048TG is a 30-tonne servo turret punch press featuring a two-piece design in which the press frame is isolated from the table base. This construction enhances part quality while extending the life of the ball screws. The machine comes with an in-line punch drive, where the servo motor is positioned parallel to the press frame, resulting in greater rigidity, reduced stress, and longer tool life.

A wide table base, equipped with twin ball screws on the Y-axis, is controlled by synchronized servo motors, resulting in high accuracy and stability during high-speed movements. The machine's controller operates with two screens, supporting functions such as scheduling, processing graphics, an expanded tool library, tool management, machine control, and turret monitoring. The second display assists operators in quick tool replacement, significantly reducing machine downtime. Overall, the Motorum 3048TG combines high speed, high accuracy, and high rigidity in a compact footprint.

FS2512 Full Sheet Load/Unload System

The FS2512 full sheet load/unload system is designed for flexibility with a same-side loading and unloading layout, offering a compact configuration while keeping the operator side accessible for hot jobs and manual operations. The system supports material thicknesses ranging from 0.6 mm to 4.5 mm and comes equipped with a three-stage advanced separation function as standard.

A servo motor-driven loader ensures high-precision repeatability of stopping positions and achieves an in-cycle loading time of 20 seconds, making it one of the fastest systems in its class. The FS2512 can be configured with two- or four-stack configurations, and a semi-automatic mode is available as an option. A dedicated HMI with scheduling functionality (100+ schedules) enables operators to easily program multiple production combinations for daily operations.

Both the Motorum 3048TG and the FS2512 system are available in 4 × 8 ft, 4 × 10 ft and 5 × 10 configurations.





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- | | | | |
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| <ul style="list-style-type: none">• Neat Cutting Oil – Mineral• Neat Cutting Oil – Synthetic• Neat Cutting Oil – Ester-Based• Semi-Synthetic Cutting Oil – Low Oil Content• Semi-Synthetic Cutting Oil – High Oil Content• Fully Synthetic Cutting Fluid• Micro-Emulsion Cutting Fluid• High-Pressure Cutting Oil• Deep-Hole Drilling Oil (Gun Drilling Oil)• Tapping & Thread Cutting Oil• Low-Mist Ester-Based Cutting Oil | <ul style="list-style-type: none">• Cutting Fluids• Low-Foam Coolant Technology• High-Stability Micro-Emulsion Coolant• Bio-Based Low-Loss Cutting Oil• Long-Life Semi-Synthetic Coolant• Tramp-Oil Resistant Synthetic Fluid• High-Pressure Low-Mist Neat Oil• Mist-Free Cutting Oil Formulations• Low-Consumption Synthetic Coolant• Grinding Fluid Synthetic• High-Speed Machining Coolant | <ul style="list-style-type: none">• Spindle Oil• Spindle Oil ISO VG 2• Spindle Oil ISO VG 5• Quenching Oils (Fast / Medium / Slow)• EDM Dielectric Oil• EDM Flushing Oil• Solvent-Based Rust Preventive• Oil-Based Rust Preventive• Dry-Film Rust Preventive• Water-Displacing Rust Preventive• Soft-Film Rust Preventive• Lithium Complex Grease NLGI 2• EP2 High-Load Grease• Molybdenum Grease (MoS₂) | <ul style="list-style-type: none">• Rust Preventive• High-Temperature Grease• Synthetic Bearing Grease• PTFE Grease• PFPE Grease• ATC Cam Follower Grease• Linear Guideway Grease• Ball Screw Grease• High-Pressure Chuck Paste• Anti-Seize Chuck Paste• Ceramic-Based Chuck Paste• Copper-Based Chuck Paste |
|--|---|--|---|



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ENGINEERING A CENTURY OF TRUST

With more than a century of manufacturing heritage, Cooper Corporation Pvt Ltd has evolved from a Satara-based engine manufacturer into a globally competitive engineering powerhouse. In this interaction with Soumi Mitra, Editor-in-Chief, Modern Manufacturing India (MMI), Farrokh Cooper, Chairman & Managing Director, reflects on legacy-driven decision-making, rapid growth over the past decade, key milestones, export successes, and the company's vision for a cleaner, technology-led future in power generation.



Source: Cooper Corporation Pvt Ltd

Farrokh Cooper, Chairman & Managing Director, Cooper Corporation Pvt Ltd

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Cooper Corporation has completed over a century of operations. How has the company's legacy shaped its growth philosophy and decision-making in today's highly competitive global manufacturing landscape?

Completing more than 100 years is not merely a milestone for Cooper Corporation; it is a responsi-

bility. Our legacy has instilled in us a deep respect for engineering integrity, long-term thinking, and disciplined decision-making. From our early days, we have believed that sustainability, whether in business, technology, or relationships, comes from building in-house capabilities and not chasing short-term gains. This philosophy

continues to guide us in today's competitive global environment. Every major decision we take is evaluated through three lenses: technological relevance, long-term value creation, and national as well as global responsibility. Our legacy has taught us that resilience comes from consistency and

innovation working together. While markets, regulations, and technologies evolve rapidly, our core belief remains unchanged that manufacturing excellence must be rooted in quality, trust, and continuous improvement. This heritage allows us to compete globally while remaining grounded in Indian engineering values.

Under your leadership, the company has grown nearly 500 percent in the last decade. What key strategic shifts or milestones were instrumental in driving this remarkable transformation from a Satara-based manufacturer to a global engineering powerhouse?

The last decade has been transformative for Cooper Corporation, driven by a clear strategic shift from being a product manufacturer to becoming a full-fledged engineering solutions provider. One of the most critical milestones was our conscious decision to invest heavily in R&D, tooling, testing, and advanced manufacturing infrastructure. We focused on developing world-class engines and components that could meet the most stringent global emission and performance standards.

Another key shift was our export-led mindset. We aligned our systems, quality benchmarks, and compliance frameworks to global norms, which enabled us to enter demanding markets like the US and Japan. Vertical integration spanning foundry, machining, assembly, and testing gave us control over quality and scalability. Importantly, we nurtured a strong engineering culture and leadership pipeline. Growth was not accidental; it was the result of consistent reinvestment, strategic partnerships, and an unwavering focus on technology-led manufacturing excellence.

“Completing more than 100 years is not merely a milestone for Cooper Corporation; it is a responsibility. Our legacy has instilled in us a deep respect for engineering integrity, long-term thinking, and disciplined decision-making.”

**Farrokh Cooper
Chairman &
Managing Director
Cooper Corporation Pvt Ltd**

The recently announced joint venture with Japan’s Sinfonia Technology marks a significant step in the power generation segment. What potential do you foresee for 10-kVA LPG gensets in the Indian and international markets?

The joint venture with Sinfonia Technology represents a convergence of two engineering-driven organizations with shared values around precision, reliability, and sustainability. The 10-kVA LPG genset addresses a highly important transition phase in power generation where customers are seeking cleaner, quieter, and more efficient alternatives to conventional diesel systems.

In India, we see strong potential across urban infrastructure, telecom, healthcare, commercial establishments, and residential applications where emission norms and noise regulations are becoming increasingly stringent. LPG gensets provide a compelling balance between environmental responsibility and operational reliability. Internationally, especially in markets like Japan and parts of Southeast Asia, LPG-based solutions

are well aligned with clean energy policies and urban deployment needs.

With Sinfonia’s technology and Cooper’s manufacturing scale, localization capability and market understanding, we believe this product category can redefine small-capacity power generation with global relevance.

The JV products comply with CPCB IV+ norms, among the most stringent emission standards globally. How is Cooper Corporation preparing for a future where clean energy and low-emission technologies will dominate the power generation landscape?

CPCB IV+ compliance is not an endpoint for us; it is a foundation. At Cooper Corporation, we have long anticipated that the future of power generation will be defined by clean energy, lower emissions, and higher efficiency. Our approach has been to stay ahead of regulatory curves rather than react to them. This is why we invested early in advanced combustion technologies, alternative fuels, precision fuel management systems, and extensive validation infrastructure.

We are also actively working on multi-fuel platforms, hybrid solutions, and engines optimized for LPG, CNG, and other cleaner fuels. Equally important is our focus on lifecycle efficiency, reducing emissions not just at the tailpipe but across manufacturing, testing, and usage stages. Partnerships such as the Sinfonia joint venture further strengthen our capability to absorb global best practices. Clean energy is not a compliance requirement for us; it is central to our long-term engineering and business strategy.

Cooper Corporation recently began exporting its EPA-certified

With Sinfonia’s technology and Cooper’s manufacturing scale, localization capability and market understanding, 10-kVA LPG gensets can redefine small-capacity power generation with global relevance.

One of Cooper's key differentiators is its ability to design engines that are robust, efficient, and adaptable to multiple fuels while meeting global emission norms.

“A key shift instrumental in driving our growth has been our export-led mindset. We aligned our systems, quality benchmarks, and compliance frameworks to global norms, which enabled us to enter demanding markets like the US and Japan.”

Farrokh Cooper
Chairman & Managing Director
Cooper Corporation Pvt Ltd



Source: Cooper Corporation Pvt Ltd

clean energy engines to the US and Japan. What technological strengths or manufacturing capabilities enabled you to achieve this milestone?

Entering markets like the US and Japan requires far more than competitive pricing. It demands engineering credibility, process discipline, and uncompromising quality. Our ability to export EPA-certified engines is the result of years of focused investment in design validation, emissions testing, durability assessment, and advanced manufacturing systems.

One of our core strengths lies in complete in-house capability from engine design and simulation to casting, machining, assembly, and final testing. This vertical integration allows us to maintain tight tolerances and consistency across batches. Additionally, our manufacturing facilities are equipped with globally benchmarked CNC machines, robotic processes, and automated quality checks. Equally important is our engineering mindset. Every product is designed for global compliance from day one. Achieving EPA certification was not a one-time effort but a validation of our systems, people, and long-term commitment to world-class manufacturing standards.

Your engines have served the Indian Defence Forces for more than a decade. How does supplying to Defence shape your product quality, testing rigor, and innovation cycle?

Supplying engines to the Indian Defence Forces is a matter of immense pride and responsibility. Defence applications demand absolute reliability under extreme operating conditions, whether it is temperature, terrain, or load variability. This requirement fundamentally elevates our approach to design, testing, and validation.

Our defence-grade engines undergo rigorous endurance testing, stress simulations, and failure-mode analysis far beyond conventional commercial norms. This level of scrutiny strengthens our overall product portfolio, as learnings from defence applications often cascade into civilian and export products. It also accelerates innovation by pushing our engineers to solve complex performance and durability challenges.

You recently expanded manufacturing capacity with two new units dedicated to foundry operations and aluminum high-pressure die casting. How will these facilities enhance Cooper Corporation's vertical

integration and global supply capabilities?

The addition of dedicated foundry and aluminum high-pressure die casting facilities is a strategic move to strengthen our vertical integration and future readiness. These units give us greater control over material quality, metallurgical consistency, and supply-chain resilience, which are critical factors when serving global OEMs and export markets. Aluminum high-pressure die casting plays a vital role in lightweighting, thermal efficiency, and structural precision, especially for modern engines and power generation components. By bringing these capabilities in-house, we reduce dependency on external suppliers, shorten development cycles, and enhance confidentiality for advanced designs.

From a global supply perspective, these facilities enable us to scale faster while maintaining uniform quality standards. They also position Cooper Corporation as a reliable long-term partner for international customers seeking integrated, high-quality manufacturing solutions from India.

R&D has always been a key differentiator for Cooper Corporation. Could you elaborate on

“My guidance to Indian machine tool manufacturers would be to focus on precision, consistency, and after-sales support, as these are critical for global competitiveness. Investing in automation, digital integration, and application-specific customization will be key differentiators.”

Farrokh Cooper
Chairman & Managing Director
Cooper Corporation Pvt Ltd



Source: Cooper Corporation Pvt Ltd

the technological strengths or breakthrough innovations that set your engines and components apart?

R&D at Cooper Corporation is deeply embedded in our manufacturing DNA. We believe true differentiation comes from engineering depth rather than incremental improvements. Our R&D strengths span combustion optimization, fuel-agnostic engine platforms, emission-control integration, and advanced material engineering.

One of our key differentiators is our ability to design engines that are robust, efficient, and adaptable to multiple fuels while meeting global emission norms. We also invest significantly in simulation tools, prototype testing, and endurance validation, which allows us to reduce time-to-market


without compromising reliability. Breakthroughs often come from solving real-world challenges, whether it is improving fuel efficiency under variable loads or ensuring performance in harsh environments. Our close collaboration between R&D, manufacturing, and testing teams ensures that innovation is practical, scalable, and commercially viable.

Could you please share the percentage split between India-manufactured and foreign-manufactured machines deployed within your facility? Additionally, what guidance would you offer to Indian machine tool manufacturers?

At present, approximately 65 to 70 percent of the machines deployed across our facilities are India-manufactured, with the

remaining sourced from global OEMs for highly specialized applications. Over the years, the quality and capability of Indian machine tool manufacturers have improved significantly and we actively encourage this ecosystem.

My guidance to Indian machine tool manufacturers would be to focus on precision, consistency, and after-sales support, as these are critical for global competitiveness. Investing in automation, digital integration, and application-specific customization will be key differentiators. Equally important is collaborating closely with end-users to understand real manufacturing challenges.

India has the talent and scale to become a global machine tool hub. The next leap will come from innovation-led engineering, not just cost competitiveness. 

Cooper's ability to export EPA-certified engines is the result of years of focused investment in design validation, emissions testing, durability assessment, and advanced manufacturing systems.

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A LEGACY FORGED IN AUTOMATION

In India's rapidly evolving sheet metal manufacturing sector, few companies have influenced the shift toward automation as decisively as Salvagnini Machinery India. Known globally for panel bending technology, the company has steadily transformed Indian shop floors by replacing skill-dependent processes with intelligent, connected manufacturing systems.

The story of the company in India is not about rapid expansion, but about deliberate and steady technology-led growth. Puneet Sharma, Director, Salvagnini Machinery India, explains that the company's focus from its early installations was on introducing complete automation concepts instead of standalone machines. "Today, we are the only sheet metal automation company in India with over 45 systems running at customer sites, including more than 100 panel benders," he states.

Digital First, Strong Presence

One of the company's defining milestones has been its leadership in Industry 4.0 adoption. It was among the first to introduce fully digital, connected manufacturing systems in India, with several successful smart-factory installations across industries.

Another defining achievement has been its dominant position in the Elevator sector. "We hold a 100 percent market share in automated lines within the Indian Elevator industry, serving global leaders such as Kone Elevator, Schindler India, OTIS Elevator, Fujitec, TK Elevators, Omega Elevators, and Aaron Industries," he shares.

A Portfolio for Every Stage of Automation

Automation journeys rarely follow a single path, and the company's product strategy embodies this guiding idea. Its portfolio,



Source: Salvagnini Machinery India

structured to support customers, begins with blanking solutions, extends through automated bending, and culminates in fully integrated Flexible Manufacturing Systems (FMS) that include automated punch-shear-bend lines, laser cutting systems, panel benders, and automated bending cells. "Strategically, our focus has been on introducing technologies that eliminate process variability and dependency on manual skills," he explains.

A key strategic move has been the introduction of a 'Make in India' laser cutting machine.

components come from Italy, the machines are manufactured locally. "This approach allows us to deliver global-quality technology with local responsiveness," he notes.

Panel benders remain the company's flagship product. With more than 100 installations in the country, the range includes compact machines with a 1,250 mm bending length reaching 4,000 mm. To broaden access to automation, the company is also introducing a beginner panel bender under the new brand METEVO. "The new brand METEVO is specifically designed to help Indian customers transition from press brakes

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to automation for the first time,” he highlights.

What Automation Delivers on the Shop Floor

According to the Director, consistency is the most frequently cited benefit in quality and output among Indian customers after adopting Salvagnini automation. “Automation dramatically reduces scrap, eliminates rework, and ensures repeatable quality, regardless of operator skill levels. Customers also experience higher uptime, predictable production planning, and faster order fulfillment,” he adds.

Sharma notes that automation brings an important intangible advantage as well. “It introduces process discipline and manufacturing confidence by transforming sheet metal operations from being skill-dependent processes into data-driven, scalable production environments—an essential factor for global competitiveness,” he states.

Global R&D Philosophy

“Salvagnini’s global R&D philosophy strongly influences our Indian strategy,” he remarks. Automation, digital integration, and lean manufacturing are treated as core system elements and not optional features. “Our FMS are a direct reflection of this approach, and today we have more than 45 systems operating in India.”

On the software side, the company’s proprietary Order Processing System (OPS) plays a critical role. “OPS connects directly with customers’ enterprise resource planning/material requirements planning (ERP/MRP) systems, automatically generating production programs and optimizing material flow and enabling true lean manufacturing with minimal human intervention,” he explains, adding that this alignment between global R&D and local application allows Indi-



“Salvagnini’s global R&D philosophy strongly influences our Indian strategy. Automation, digital integration, and lean manufacturing are treated as core system elements and not optional features. Our FMS are a direct reflection of this approach, and today we have more than 45 systems operating in India.”

Puneet Sharma
Director
Salvagnini Machinery India

an manufacturers to compete at international benchmarks.

Support in India

For the company, service excellence is central to its value proposition. Sharma highlights that 25 trained service technicians and six dedicated application engineers are currently employed. “This makes us one of the largest and most skilled service teams in the sheet metal automation space,” he emphasizes.

As the number of installations continues to grow, the company is simultaneously scaling its manpower and infrastructure. “A major step is the launch of our Technology Center in Hadasar, Pune, scheduled to be operational by March 2026,” he reveals. The center will offer hands-on demonstrations, customer training, and direct exposure to the latest Salvagnini tech-

nologies, further strengthening its local support ecosystem.

Five-Year Vision

The company views India to be at a critical turning point. “Customers are rapidly moving away from standalone press brakes toward automated bending solutions such as panel benders,” he observes. “With the combination of Italian technology and ‘Make in India’ manufacturing, we expect three to four times growth in the next five years compared to the last five.”

Small and medium enterprises are expected to play a major role in this growth, supported by entry-level automation solutions such as the new brand METEVO panel bender. “Our goal is to democratize automation and make world-class technology accessible to a broader segment of Indian manufacturers.”

Showcasing at IMTEX FORMING 2026

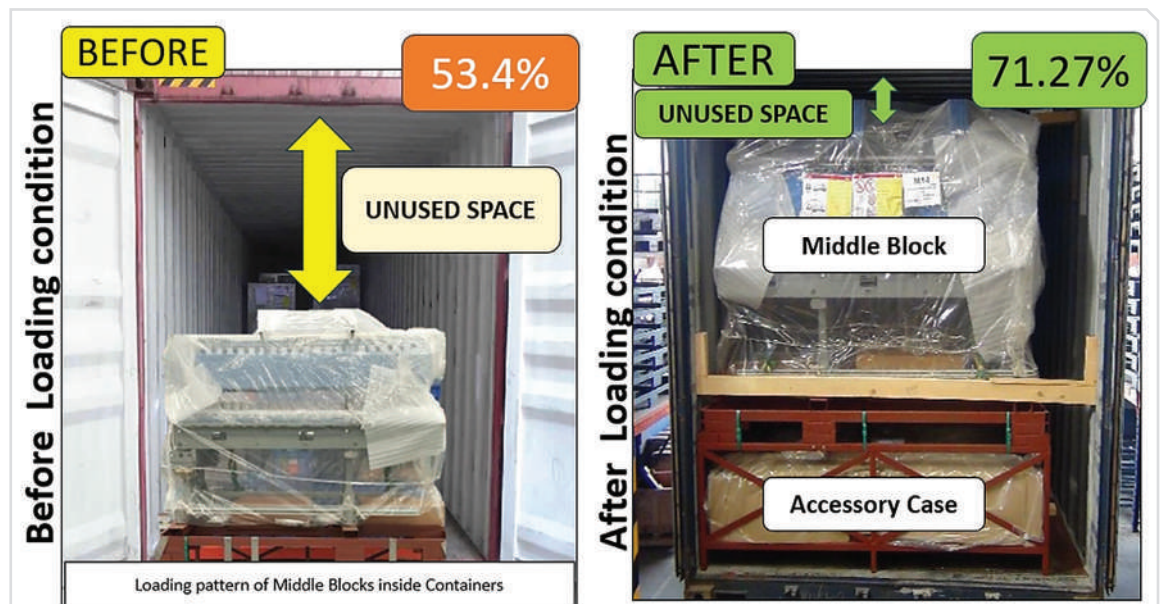
At IMTEX FORMING 2026, organized by Indian Machine Tool Manufacturers’ Association (IMTMA) and scheduled to take place from January 21-25, 2026, the company plans to showcase its complete automation journey. Exhibits will include the ‘Make in India’ laser cutting machine LXI, P2-1620.G4 panel bender from Salvagnini Austria — a state-of-the-art machine that reflects the true DNA of Salvagnini, and a newly introduced beginner panel bender from the new brand METEVO. Flipping to a page from the past, he shares the historical significance behind the technology, “Panel bending was pioneered over 60 years ago by Guido Salvagnini, and the P2-1620 carries that legacy forward.” 

Showcasing at IMTEX FORMING 2026: The ‘Make in India’ laser cutting machine LXI, P2-1620.G4 panel bender from Salvagnini Austria, and a newly introduced beginner panel bender from the new brand METEVO.



OVERCOMING SUPPLY CHAIN DISRUPTION

Kirloskar Toyota Textile Machinery Pvt Ltd's (KTTM) response to the supply chain crisis offers a masterclass in problem-solving under constraint. Rather than viewing COVID-19 disruptions as an immovable obstacle, the team leveraged lean manufacturing principles, systematic analysis, and collaborative innovation to strengthen competitiveness, reduce environmental impact, and emerge from the crisis with demonstrably superior processes.



Source: KTTM

When the global supply chain faced unprecedented challenges during the COVID-19 pandemic, Kirloskar Toyota Textile Machinery (KTTM) found itself navigating a critical issue: container shortages and skyrocketing export costs. The team then launched an ambitious initiative to enhance container efficiency and reduce the cost burden for its customers—a project that would transform their operations and establish new benchmarks for supply chain excellence in the Textile Machinery Manufacturing sector.

The Challenge: When Demand Met Disruption
KTTM, established in 1997 as Toyota Group's first joint venture in India, is the sole manufacturing facility producing world-class ring spinning machines. The company serves both domestic and global markets, with approximately 70 percent of its dispatches going through containerized sea routes and 30 percent via domestic trucks. The business was thriving, with export dispatches reaching unprecedented volumes. However, the pandemic brought a stark reality. Con-

tainer costs, which had historically remained around US\$ 3,000 per unit in 2018-19, skyrocketed to US\$ 24,000 in 2020-21—an eight-fold increase. Simultaneously, the availability of shipping containers plummeted as global logistics networks strained under the crisis. The combination led to fewer containers available at exponentially higher costs. For KTTM, this meant dispatches to export customers coming to a standstill. While domestic shipments continued, the company's 80 finished machines piled up against a storage capacity of just 20 units. Production lines faced

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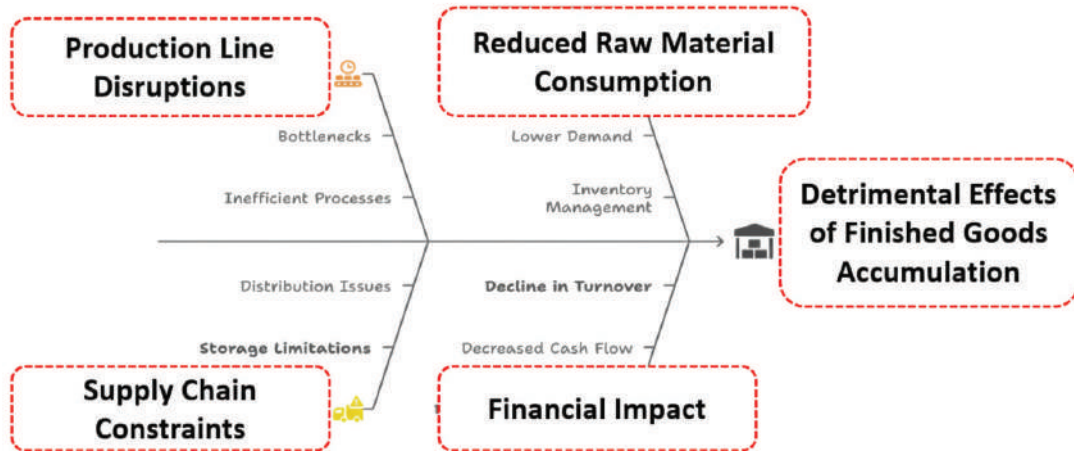
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Analyzing the Impact of Finished Goods Accumulation



Source: KTTM

When the global supply chain faced unprecedented challenges during the COVID-19 pandemic, KTTM found itself navigating a critical issue: container shortages and skyrocketing export costs.

disruptions. Raw material consumption dropped as the company grappled with inventory management. Financially, the impact was devastating as monthly inventory costs ballooned, monthly turnover crashed, and machine dispatches plummeted.

Adding to the operational nightmare, the company had to establish three separate warehouses to accommodate the backlog, incurring additional rental costs, employing additional personnel, and requiring MHEs and specialized logistics vehicles. The cost burden spiralled upward at every turn.

Root Cause Analysis: Beneath the Surface

Rather than accepting these constraints, KTTM's cross-functional team, comprising the Operations Head, Department Heads, Section Heads, and Group Leaders, decided to investigate the fundamental problem. Using the seven quality control tools and fishbone analysis, they identified the core issue: Low volumetric efficiency of export containers.

The company's ring spinning frames were being packed in custom pallets, metal pallets for export customers, and wooden pallets for domestic customers.

Each Middle Block Unit required specific handling, and due to the irregular shape of the machines' critical parts, the blocks could not be stacked efficiently. The traditional loading pattern yielded a container volumetric efficiency of just 53 percent, meaning nearly 47 percent of valuable container space sat unused.

Further investigation revealed that eight different pallet variants were in use, leading to various quality issues. The company was utilizing custom wooden pallets for domestic customers and metal pallets for exports, a duplication of effort with no strategic advantage.

The Strategic Response: SEQCD Alignment

The team established clear objectives aligned with Toyota's SEQCD principles—Safety, Environment, Quality, Cost, and Delivery. A detailed project plan was created with implementation schedules and regular follow-ups. The approach would unfold in four strategic stages.

Stage 1: Commonizing Pallet Variants (70G & 75G)

The team recognized that many

pallet variants served similar purposes with minor differences. By commonizing the different variants of Middle Block pallets, the team reduced the total number of variants from 8 to 4. This simplification eliminated supplier confusion, reduced line rejections and stoppages, and streamlined production scheduling. The move toward standardization, a cornerstone of lean manufacturing, had begun.

Stage 2: Eliminating Redundant Pallet Types

Building on this success, KTTM took an aggressive step: eliminating the special pallet variants. By consolidating these functions into a single common metal pallet design, the total number of metal pallet variants dropped from 4 to 1. This dramatic reduction in complexity further enhanced supply chain reliability and reduced manufacturing costs.

Stage 3: Eliminating Wooden Pallets

Recognizing both environmental and economic imperatives, KTTM made a bold decision: eliminate wooden pallets entirely. All customers, domestic

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The team established clear objectives aligned with Toyota's SEQCD principles—Safety, Environment, Quality, Cost, and Delivery. A detailed project plan was created with implementation schedules and regular follow-ups.

BEFORE

Before:
4 Variants of Middle Block SKIDS for METAL PALLET.

1 70G MIDDLE BLOCK (OE)

2 75G MIDDLE BLOCK (OE)

3 70G MIDDLE BLOCK

4 75G MIDDLE BLOCK

AFTER

70G & 75G
COMMON
METAL SKID

Total Number of SKID VARIANTS in Middle Block

4 Types of Skids

(Regular Skid -70G & 75G)
(OE Skid - 70G & 75G)

Total Number of METAL SKID VARIANTS in Middle Block

1 Type of Metal Skid

Source: KTTM

and export, would transition to a standardized metal pallet. This decision aligned with the company's green kaizen initiative, eliminating 1.2 tonne of wood per machine and preventing 3 trees from being felled per unit produced. Annually, this translated to 20.5 tonne of CO₂ reduction. However, this transition presented a formidable challenge: the cost for domestic customers rose sharply, which became a new challenge for the team.

Stage 4: Re-engineering for Cost Recovery

Rather than accepting the cost burden as inevitable, the team launched a comprehensive re-engineering initiative: Through detailed load analysis using design software and theoretical calculations, engineers reduced the pallet weight without compromising structural integrity or safety. This 27 percent weight reduction translated to direct cost savings while maintaining the pallet's load-bearing capacity.

Implementing Metal Pallet Reuse:

A critical innovation emerged. Metal pallets brought back from domestic customers could be thoroughly refurbished and reused up to three times. This circular

economy approach dramatically reduced the cost-per-use metric and minimized waste.

Double-Stacking Implementation:

Through rigorous testing, including fall tests, road trial simulations with cameras monitoring container integrity, and customer trials with necessary approvals from parent company TICO Japan, the team proved that Accessory Cases could support double-stacked Middle Blocks within containers. This breakthrough increased volumetric efficiency significantly.

Container Loading Optimization:

Using visualization software for precise loading simulations and AutoCAD for detailed planning, the team developed optimized packing patterns. The container requirement per machine dropped from 5 to 3.5 containers, a 30 percent reduction.

Tangible Results: Transformation Across All Dimensions

Container Efficiency: The container volumetric efficiency improved by 33 percent. Container requirement reduced from 5 to 3.5 per machine, eliminating 1.5 containers per shipment.

Operational Efficiency: Monthly container loading capacity doubled from 1.2 to 2.5 machines per day, dramatically reducing the backlog.

Warehouse Consolidation: By increasing export dispatch capacity, the company successfully consolidated from 3 warehouses to 1, leading to a 67 percent reduction in monthly rental costs.

Overall Cost Impact: Monthly operational costs plummeted, amounting to a 65 percent reduction in warehouse-related expenditure.

Business Metrics: The benefit of 30 percent reduction in the number of containers required flowed directly to customers, reducing their shipping cost burden and enabling KTTM to maintain its competitive market position.

Environmental Impact: The elimination of wooden pallets prevented trees from being harvested and reduced CO₂ emissions by 20.5 tonne annually.

The Kaizen Spirit: Continuous Learning

Beyond the metrics, the project exemplified the true spirit of kai-



Indo - Japanese joint seminar on **Human Resources Management & Skill Development**

"Effect of Automation and Robotics on the Skills Ecosystem"

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In an era where supply chain resilience defines competitive advantage, the project stands as proof that systematic methodology, team empowerment, and alignment with core principles like SEQCD can convert crisis into opportunity.

BEFORE	 <p>METAL SKID</p>	 <p>WOODEN SKID</p>
AFTER	 <p>COMMON SKID</p>	 <p>ELIMINATED</p>

Total Number of **SKID VARIANTS** in Middle Block

8 Type's of Skid

↓

1 Type of Skid for Domestic and Export

Source: KTTM

zen and Toyota Production System principles. Team members documented their learnings:

- Understanding standardization and pallet design for operational ease;
- Recognizing that metal fabrication and design innovations drive operational impact;
- Appreciating the power of teamwork and cross-functional collaboration;
- Discovering that technical problem-solving aligned with TPS philosophy yields sustainable success.

The team's approach demonstrat-

ed that supply chain challenges, when analyzed systematically and addressed comprehensively, transform into opportunities for innovation and improvement.

Building Resilience Through Innovation

KTTM's response to the supply chain crisis offers a masterclass in problem-solving under constraint. Rather than viewing COVID-19 disruptions as an immovable obstacle, the team leveraged lean manufacturing principles, systematic analysis, and collaborative innovation to reimagine its operations. The

result was not merely a survival strategy but a transformation to strengthen competitiveness, reduce environmental impact, and emerge from crisis with demonstrably superior processes. In an era where supply chain resilience defines competitive advantage, the project stands as proof that systematic methodology, team empowerment, and alignment with core principles like SEQCD can convert crisis into opportunity—delivering benefits that extend far beyond the immediate business metrics to create lasting value for customers, employees, and the planet. 



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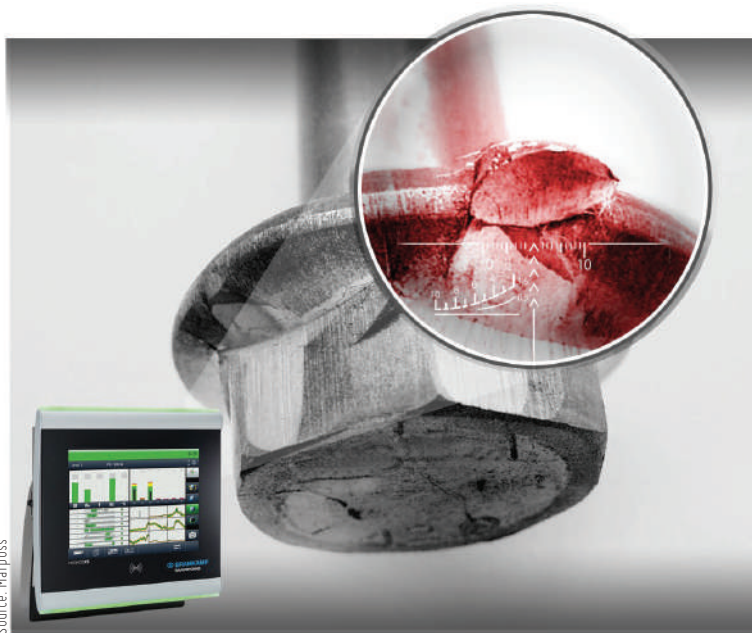
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MARPOSS' BRANKAMP X-SERIES AND VARIO DUO SENSOR



Source: Marposs

Marposs offers innovative technologies for machine, tool, and process monitoring, as well as process control across all types of forming, stamping, and forging machines. These monitoring systems enable faster machine setup, improved efficiency, and higher overall productivity.

Advantages of Brankamp in the Forming Industry

The Brankamp X-series in-process monitoring systems detect overload conditions and automatically stop the machine to prevent damage and unplanned downtime. Continuous monitoring of tooling (dies and punches) in forging, fastener, and stamping applications ensures consistent performance. The systems detect quality defects in real time, enabling immediate corrective actions and ensuring high-quality parts. The X-Browser and X-

Client software solutions are widely used in the Forming industry, fully supporting Industry 4.0 requirements through advanced data connectivity and process monitoring.

Marposs monitoring solutions detect process errors, protecting machines and tooling. Cracks on formed parts, for example, represent a typical production failure that often occurs randomly in workpieces. Such failures can only be detected through in-process monitoring of all manufactured parts.


The Brankamp X-Series high-quality in-process monitoring systems offer an effective way to observe and control the machine by detecting part defects or abnormal conditions right at the deformation stage to prevent overload or fractures in tool elements.

As soon as a significant change in the process signal occurs, the machine can be stopped

to prevent expensive machine and tool damage or the defective parts can be sorted out via a sorting gate. Various sorting logics and conditions are available for this purpose.

In production processes, such as the forming of hexagon head bolts, collar bolts, or nuts, formed parts can be transferred to the next forming stage in an incorrect orientation. Characteristic 'ears' or scrapings occur on, for example, collar screws with hexagonal heads. These defects occur sporadically and are often not detected during manual, statistical quality inspections.

The defects can range from slight, hardly noticeable scraping to clear quality defects. The forces during part introduction into the die are very low and, therefore, represent a particularly high requirement for signal acquisition.

With the newly developed Vario Duo, this sporadically occurring 'rotation or inserting' problem can be detected at the existing measuring position using two sensor elements inside one standard sensor body and special software in an additional monitoring channel. The standard sensor positions prepared by the machine manufacturer can be used without additional preparation. Simple installation or easy upgrade of existing installations is possible. Well-monitored processes can run at the highest possible speed, and damaged parts are sorted out without interrupting production, resulting in increased productivity. 

Source: Marposs



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NEARLY TWO CENTURIES, ONE FORWARD VISION

Huron Graffenstaden SAS marked a significant milestone with the inauguration of its new production facility, Eschau II, during Huron Open Week, held from November 18-20, 2025. The event celebrated nearly two centuries of precision engineering, highlighted its collaboration with Jyoti CNC Automation Ltd, and showcased a forward-looking vision for global manufacturing.



Eminent dignitaries at the inauguration of Huron Graffenstaden's new Eschau II production facility.

Source: Magic Wand Media

The story of this French company is inseparable from the heritage of Strasbourg, France, where centuries of craftsmanship intersect with modern industrial innovation. Marc Troïa, Director Commercial, Huron Graffenstaden, shared a vivid glimpse into the company's history through a 130-year-old hand-sketched painting that weighed nearly 300 kg on display during the event. "This," he said, "is where it all began." The artwork depicted the early workshops, steam train

constructions, and the bustling foundries that shaped the company's identity long before the modern city grew around it, making it one of the key displays during the event. Highlighting its milestones, Troïa reflected on its evolution from crafting machines for watchmaking and restoring the Strasbourg Cathedral clock to producing steam locomotives and pioneering early CNC research in the 1950s. "It's a story of evolution," he noted. "A journey from craftsmanship to advanced machining."

The Jyoti-Huron Story

Parakramsinh G Jadeja, Chairman & Managing Director, Jyoti CNC Automation Ltd, recounted the origins of the Gujarat-based company, recalling how he began as a 20-year-old school dropout with only INR 100 and a single lathe machine. "I started as a machinist, and slowly we learned how to build everything—from components to complete machines," he said. Recognizing the importance of digital transformation in the late 1990s, Jadeja led the company to

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“Huron Open Week reflected who we are: a company rooted in heritage but driven by innovation.”

Marc Troia
Director
Commercial
Huron
Graffenstaden

“With Huron Graffenstaden, we are serving the global industry with innovation, precision, and purpose.”

Parakramsinh G Jadeja
Chairman &
Managing Director
Jyoti CNC
Automation Ltd

Source: Magic Wand Media

The strategic acquisition of Huron Graffenstaden in 2007 strengthened Jyoti CNC's technological capabilities. Together they shared the mission of serving the global industry with innovation, precision, and purpose.

design its first CNC machine, establishing a fully integrated machine tool company. Today, the company employs 3,500 people, serves over 14,000 customers, and offers a wide range of turning, milling, multitasking, and high-precision solutions.

The strategic acquisition of Huron Graffenstaden in 2007 strengthened the company's technological capabilities. He described the French company as “a 198-year legacy and a partner that strengthened our technology journey.” Looking ahead, he emphasized the shared mission of serving the global industry with innovation, precision, and purpose.

Adding to this, Mihir Baxi, Global Sales President, Jyoti CNC Automation Ltd, reflected on the current global reach of the partnership: “The Eschau II facility is a moment where sophisticated, high-precision five-axis machines meet a truly global vision.”

Eschau II: A New Chapter

The newly inaugurated Eschau II facility represents both

scale and ambition. Alongside Troia and Jadeja were Thierry Bouchaud, Business Unit Director, Siemens and Senior Member, FIM - Fédération des Industries Mécaniques (FIM); Avinash V Rao, Second Secretary, Embassy of India in Paris; and Thibaud Philipps, Mayor of Illkirch-Graffenstaden, who inaugurated the plant and participated in the intimate ribbon-cutting ceremony.

Designed to accommodate larger machines, higher ceilings, and heavier cranes, the new facility allows the company to manufacture bigger, more complex components without constraints. Troia explained the facility's purpose, “Our machines have grown with the size of our customers' parts, so we built a space that lets us build more, build bigger, and build without limits.”

Jadeja shared the “story beyond the history” of Jyoti-Huron. “We began this journey together on this very day, and it has been 18 years of a wonderful partnership,” he said, speaking at the inauguration ceremony.

Rao contextualized the inauguration within the broader framework of bilateral collaboration. “This is a celebration of a deep and growing India-France partnership,” he said, noting how initiatives like Horizon 2047 and the upcoming 2026 India-France Year of Innovation support the importance of collaborations such as Jyoti-Huron in shaping future industrial landscapes.

The significance of the facility was underscored by Philipps, “The delivery of this extension is a true message of hope and optimism for all of us.” Bouchaud emphasized the relevance of French manufacturing equipment suppliers represented by EVOLIS, and FIM, in driving industrial growth and competitiveness.

Partner Showcases: Industry United for the Future

With over 60 partners, the expanded facility became a hub for global partners to demonstrate their latest innovations, highlighting Jyoti-Huron's collabora-



Source: Magic Wand Media

The newly inaugurated Eschau II facility represents both scale and ambition.

The inauguration of the Eschau II facility during Huron Open Week epitomized the convergence of heritage, technology, and partnership.

tive approach and proactive initiative toward building the next generation of engineers.

Nearly 800 students visited Eschau II to explore the facility and engage with partner technologies. Troïa encouraged young visitors: “The industry is technical, technological, and interesting. You can learn things, enjoy yourself, and even earn some money.”

Michel Renaud, Product Expert FA Drill Laser, FANUC France SAS, shared, “We’re here at Huron Open Week to share with the next generation and support the industry’s future.” Julienne Domergue, Business Development Manager, USINAGE FORMATIONS, said that being invited to the event was “a wonderful opportunity to meet industry peers, showcase the company’s innovative training solutions, and explore the new Eschau II facility.”

Jean-Luc Gambet, Sales Manager, Supfina Grieshaber GmbH & Co KG, emphasized the compatibility of their superfinishing machines with Huron’s

equipment. “Most of our equipment can be fitted on a Huron machine,” he explained, noting the strategic synergy that prompted Supfina to present its ‘ROADSHOW Supfina’ demo vehicle at the event.

Mitchel Schmitt, Global Product Specialist Tooling Systems, Seco Tools Tooling Systems SAS, highlighted the long-standing collaboration with Huron Graffenstaden and Jyoti CNC Automation. Nina Ziehmer, Marketing Manager, CMS Automatisme, highlighted its collaboration with Huron, stating, “CMS Automatisme supports Huron, especially its customers, by providing robot solutions for the charging of CNC machines.”

Franck Lacroix, Responsable Support Digital & Enseignement, Blaser Swisslube SARL, described the event’s atmosphere as “a great moment to share experience,” with students. Lacroix also noted, “We’ve worked together with Huron for years, helping customers choose the right product for every Huron machine.”

In the area of digitalization and machine intelligence, Losson Luc, Business Development Machine-Outil, Siemens SAS, and Alexis Capoen, Application Engineer, JANUS Engineering France explained how their technologies integrate seamlessly with Jyoti-Huron machines.

Romuald Caldi, Technico-commercial SO PROD, ERRIC GROUPE, highlighted his company’s satisfaction with Huron machines and the depth of collaboration enabled through their long-standing partnership that began with equipping of its own mechanical workshop with Huron lathes.

Mickael Marcillat, Responsable Marchés Métal et Défense, Division Robotics, Stäubli Faverges SAS, described the event as a place for a great exchange of ideas and meeting people. He said that Huron’s collaborative spirit mirrors Stäubli’s technical days in France, where partners and young talent gather around real applications.

Pierrick Monnot, Directeur Agence EST, TopSolid France,



Source: Magic Wand Media

Parakramsinh G Jadeja, Chairman & Managing Director, Jyoti CNC Automation Ltd, and Marc Troia, Director Commercial, Huron Graffenstaden, with the team during Huron Open Week in Strasbourg, France.

detailed that the collaboration extends beyond technology and is built on shared customers who depend on TopSolid software to fully harness the potential of Jyoti-Huron machines.

Adrien Brunet, Engineer- Polymer Sustainability, Lines Manufacturing, portrayed the event as an occasion to look outward. "The more you invest in the next generation, the greater the future potential we all create," he said, capturing the essence of Huron's long-standing belief.

Trust Built Over Time

Long-term customers and dealers who attended the event reflected on the enduring value of the Jyoti-Huron partnership. Oliver Moekotte, Managing Director, Alfleth Engineering AG, noted, "After Jyoti CNC Automation took over Huron Graffenstaden, the growth was even faster than anyone planned," emphasizing the synergy between Swiss engineering, French expertise, and Indian industrial strength. Thomas Alijew, Managing Di-

rector, Alfleth Engineering AG, recalled his first meeting with Huron back in 1998 in Zurich, noting that "from the beginning, it was a good cooperation."

From the dealer perspective, the sentiment was equally strong. Vincent Bedin, Sales Manager BENELUX Market, Bun Engineering SA, Huron's official dealer in the region, described the event as a celebration of shared values. "Customers expect machines backed by solid history, reliable performance, and deep engineering experience. That's exactly what Huron delivers," he said.

End-user experiences further reinforced this confidence. Sandeep Satani, Chairman & Managing Director, Shreeram Aerospace & Defence LLP, reflected on his company's six-year journey with Huron machines, stressing the importance of operational continuity. "For us, it's about precision, reliability, and the confidence that Huron and Jyoti service teams keep our operations running 24/7," he noted.

Marco Catalano, Founder & General Manager, AV Group, described their 45-year association with Huron as "a story of trust, performance, and shared ambition." Adding a personal perspective, Nathalie Lespiat, Chief Financial Officer, AV Group, traced her family's connection with Huron back to 1965. "My father began this journey with Huron, and today we continue to nurture that legacy," she said.

A Celebration of Collaboration

The inauguration of the Eschau II facility during Huron Open Week epitomized the convergence of heritage, technology, and partnership. From live demonstrations and roundtable sessions to partner showcases and student visits, the event reflected the company's commitment to innovation, global collaboration, and nurturing future talent. Troia summed up the spirit of the celebration: "Success feels bigger when it's shared." 

Designed to accommodate larger machines, higher ceilings, and heavier cranes, the new facility allows the company to manufacture bigger, more complex components without constraints.

TMTS 2026 SET TO ANCHOR SMART MANUFACTURING IN TAICHUNG

TMTS 2026, the Taiwan International Machine Tool Show, will return to Taichung from March 25-28, 2026, marking an important new chapter for the exhibition as it debuts at the newly inaugurated Taichung International Convention and Exhibition Center (TICEC).

Located within the Shuinan Trade and Economic Park, the newly opened TICEC sits amid Taiwan's machine tool cluster. The choice of venue is well thought out, as it is where manufacturing sites, supply chains, and markets coexist closely.

Focus on AI and Sustainability

Under the theme 'AI-Powered Sustainable Manufacturing', TMTS 2026 builds on the foundations of Digital Transformation (DX) and Green Transformation (GX) established in 2024. The show will feature cutting-edge machine tools, smart manufacturing systems, automation technologies, and key components, and spotlight the integration of artificial intelligence across manufacturing processes and sustainability strategies.

Ten Thematic Zones, One Integrated Vision

TMTS 2026 will be organized into ten thematic zones, covering areas such as AI-enabled production, smart connectivity, human-machine collaboration, digital twins, big data applications, energy efficiency, resource optimization, green supply chains, environmental certification, and sustainable product design. Together, these zones reflect manufacturers' collective commitment to ad-



Source: TMBA

vancing smart manufacturing and long-term sustainability.


Moving Beyond Static Displays

One of the key shifts at TMTS 2026 is its ecosystem-based exhibition model, guided by three strategic approaches. First, rather than focusing solely on individual machine displays, exhibitors are encouraged to present real-world solutions and measurable outcomes. Second, static displays will be enhanced through immersive experiences, including live demonstrations, VR/AR factory tours, and interactive machining challenges. Third, TMTS also emphasizes collaboration across industries, bringing together machine builders, component suppliers, AI software developers, and sustainability and certification bodies to

demonstrate integrated manufacturing solutions.

Strengthening Taiwan's Global Manufacturing Role

According to the Taiwan Machine Tool & Accessory Builders' Association (TMBA), TMTS 2026 represents more than a trade exhibition. It reflects Taiwan's advancement towards intelligent manufacturing, global engagement, and sustainable growth. The show is expected to attract strong participation from both domestic and international buyers and exhibitors.

In future, the event will continue using Taichung as a strategic hub to connect global manufacturing ecosystems and leveraging its 'production-as-exhibition' model to usher in a new era of smart manufacturing. 

According to TMBA, TMTS 2026 reflects Taiwan's push towards intelligent manufacturing, global engagement, and sustainable growth and is expected to attract strong participation from both domestic and international buyers and exhibitors.

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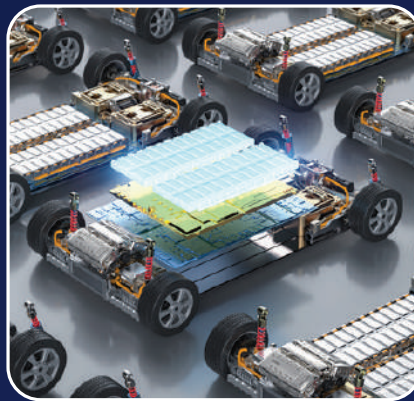
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