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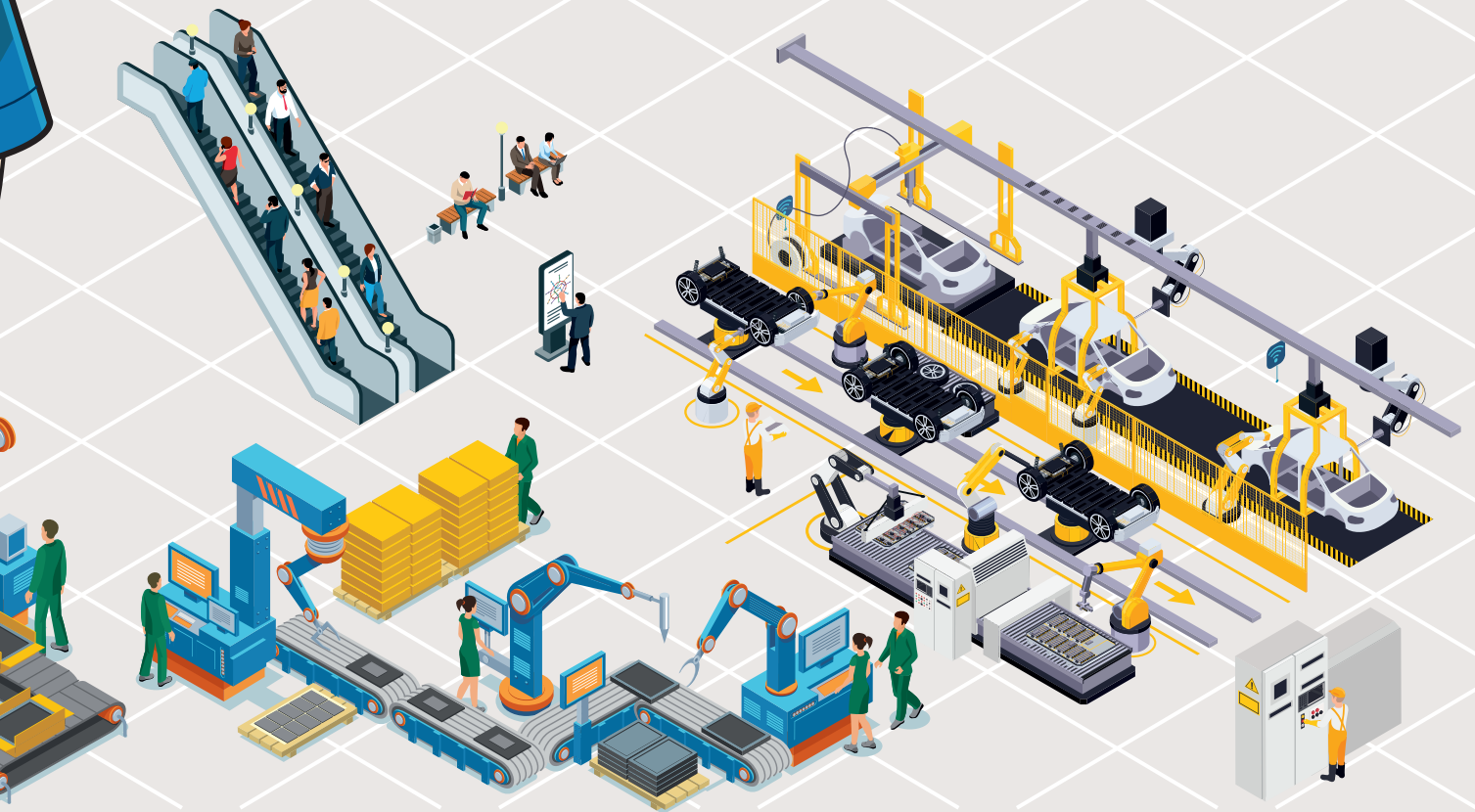


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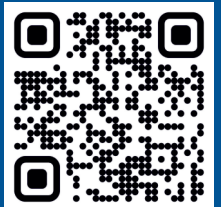
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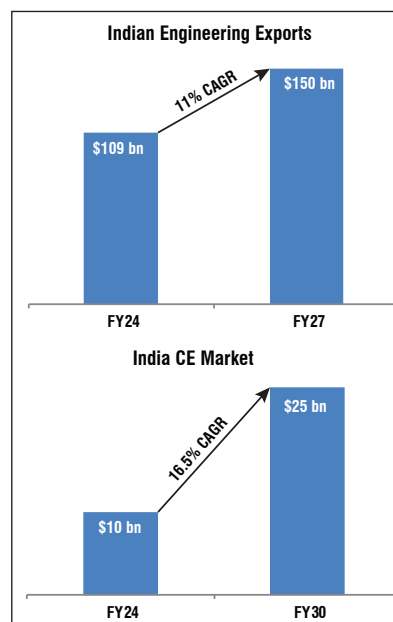
Collaborating for Constructive Growth



India's real Gross Domestic Product (GDP) grew 6.2 per cent in the October to December 2024 period, the third quarter of the fiscal year, picking up pace from 5.6 per cent growth in the previous quarter, according to the National Statistics Office (NSO). This steady economic expansion underscores India's resilience and growing prominence in global markets. The growth was primarily driven by rise in government spending (primarily on infrastructure),

private consumption and exports. This positive trajectory further strengthens India's role in the global engineering, manufacturing, and construction equipment (CE) sectors.

After an 8.5 per cent decline in FY24, India's engineering goods exports have rebounded sharply in FY25. The first ten months of the fiscal year saw a 9.92 per cent growth, driven by strong demand for industrial machinery, automotive components, and electrical equipment. Engineering exports are projected to reach \$118-120 billion in FY25 compared to \$ 109 billion in FY24. If the current trend continues, engineering exports could surpass \$150 billion by FY27, making the sector a key driver of India's economic growth. Similarly, fueled by significant infrastructure investments, Indian construction equipment industry is expected to reach \$ 25 billion by FY30 from \$ 10 billion in FY24. Given the country's ambition to become a manufacturing hub, CE exports are projected to rise to \$3 billion by 2030, capturing 1.2 per cent of the global market share.



India's engineering and construction equipment sectors will take center stage at two prestigious global trade fairs in 2025: Hannover Messe (March 31-April 4) and Bauma (April 7-13), both in Germany. ASAPP Info Global Group, through this *India Next* edition, is providing Indian exporters a platform to showcase their latest innovations at these events, fostering partnerships and international business expansion. As a leading Indian media house specialising in manufacturing, engineering, construction, and infrastructure sectors for over three decades, ASAPP provides the ideal platform—through its publications, conferences, and exhibitions—for global companies looking to engage with key stakeholders in India. With industry-leading publications such as *Construction World*, *Indian Cement Review*, *Equipment India*, *Infrastructure Today*, and *Smart Manufacturing & Enterprises*, along with premier events like RAHSTA Expo, Construction World Global Awards, Equipment India Awards, Cement Expo, and MultiLogistix Expo, ASAPP remains actively involved in facilitating business interactions across these crucial sectors.

With favorable policies, infrastructure development, and incentives like PLI schemes strengthening India's position in the global manufacturing and construction landscape, ASAPP is poised to become a trusted global partner for companies seeking growth and success in these sectors.

Pratap Padode

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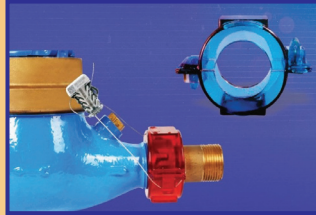
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MSMEs: The Key Enablers of Make in India

There are clear benefits for foreign companies to source from Indian Micro, Small, and Medium Enterprises (MSMEs). They are now a crucial part of the supply chain for foreign companies setting up factories in India. These MSMEs have been tested and found suitable for many industries, with a strong emphasis on quality, says **R Jayaraman**.



Every economy consists of three types of sectors – industry, services, and agriculture. In many Western countries, agriculture has become irrelevant in terms of contribution to GDP (for example, it is less than 0.5 per cent in the USA), although it remains a sector that supports the inverted pyramid.

The global gross domestic product (GDP) grew from \$70.5 trillion in 2013 to \$89.5 trillion in 2022, at an average annual rate of 2.7 per cent. The contribution of agriculture value-added increased by 2.9 per cent on average each year, from \$3.0 trillion in 2013 to \$3.8 trillion in 2022. However, the percentage contribution has remained steady, at around 4.23 per cent. Perhaps this could be the lowest level at which agriculture may still be able to support global hunger.

Even at this level, hunger remains a problem in parts of the world. Among all the large economies, India has the highest contribution of the agricultural sector to GDP, at around 18 per cent. The services industry is usually the most monetarily productive,

though not in terms of creating goods. The percentage contribution of services to Indian GDP has been around 60 per cent between 2013 and 2023. Consequently, the contribution of manufacturing and industry during the same period has been about 22 per cent, with the percentage varying between 20 and 22 per cent in India.

Since the first industrial area was developed in Ambattur through the efforts of former President of India R Venkataraman, these clusters have proliferated and significantly contributed to industrial growth.

Micro, Small, and Medium Enterprises (MSMEs) are often the backbone of the larger industrial sector. In India, the MSME sector plays a crucial role. MSMEs are organised, registered groups of businesses that supply

finished products to other industries as well as directly to end consumers. These enterprises are flexible, speedy in deliveries, and focus on a few products. Technologically, they may not always be at the cutting edge, but a select few, supported by larger companies or industry bodies such as CII and FICCI, have access to the latest technologies, enabling them to supply market-accepted current goods. MSMEs are typically spread across the length and breadth of India and are often found in ‘industrial areas,’ many of which dot the country.

However, significant MSME hubs exist in regions such as Himachal Pradesh, near Haridwar, Goa, Jamshedpur, and Rajasthan. MSMEs located in these areas can take advantage of state and central government incentives as well as consistently available utilities, such as power and water. Recently, many transport hubs have also been established nearby.

Since the first industrial area was developed in Ambattur through the efforts of former President of India R Venkataraman, these clusters have proliferated and significantly contributed to industrial growth. Not being asset-heavy, these operations are physically and financially small. They often specialise in one or two products or services and typically employ fewer than 100 people. Over the years, significant development has taken place, and we will discuss some of these changes.

What began as small clusters with a few units has now evolved into industrial townships in many cases, accommodating diverse businesses. Employment and trade opportunities have expanded, with many units employing ITI-trained personnel, thereby introducing higher-level skills required for manufacturing high-quality goods. There has been significant growth in the MSME sector in recent years (refer to Table 1).

The average employment per MSME has remained more or less constant over the period. The government has strengthened the MSME sector with initiatives such as the Udyam registration portal, followed by other measures to legitimise and support this sector. As of 5th December 2024, the latest data on MSMEs indicates that 55,784,614 units employ 554 million people, with an average of 9.9 persons per MSME. For foreign companies seeking to establish operations in India, the most relevant MSMEs include 729,527 small and 68,819 medium enterprises. Among these, 11 million



MSMEs play a crucial role in India, and are flexible and fast to deliver.

MSME units operate in the manufacturing sector, which is of particular interest. Since the number of small and medium enterprises is only about 0.8 million, at least another 0.3 million micro-units also operate in manufacturing, if not more.

In the last ten years, the MSME sector has undergone dramatic transformation. These changes are making the industry more modern, responsive, and better financed, leading to faster delivery of higher-quality products. Given the overall improvement in education and awareness, MSME entrepreneurs have updated their knowledge and quickly adapted to new opportunities arising from ‘ease of doing business’ reforms. Government initiatives such as ‘Make in India,’ ‘Start-up India,’ and ‘Manufacture in India,’ supported by schemes like PLI and PMGSS, have reassured entrepreneurs that business conditions have changed for the better.

One of the key changes is the online registration of MSME units under the Udyam scheme. This scheme has helped the government identify and recognise units within the sector. In line with the DBT framework, all financial transactions occur via the bank accounts of these units, eliminating intermediaries. As a result, transactions are faster, more accurate, and directly benefit the intended parties. Data transfers from MSME units further enable the government to monitor progress and design new schemes to support business growth. Since MSMEs are small, they may not be able to independently secure funding or assistance (e.g., C&F for exports, LOIs). However, they can now rely on government-backed schemes to facilitate such

Table 1: Employment in the MSME sector

Year	Employment (numbers)	Number of MSMEs	Average employment per MSME
2017-2018	77,70,469	12,46,027	6.24
2018-2019	60,10,653	10,16,723	5.91
2019-2020	66,22,941	11,03,970	6.00
2020-2021	112,97,690	18,41,253	6.14
2021-2022	131,18,896	20,78,882	6.31

Source: PIB

processes. Some key initiatives include the PM’s Employment Generation Programme, the Credit-Linked Capital Subsidy Scheme, the Credit Guarantee Trust Fund, and the Raising and Accelerating MSME Performance (RAMP) scheme.

MSMEs are now a crucial part of the supply chain for foreign companies setting up factories in India. Many multinational firms—such as Nokia, Suzuki Motors, Schneider, Alstom, ABB, and Bosch—have successfully integrated MSMEs into their operations. For example, Maruti Suzuki sources a large percentage of its parts from Indian MSMEs. Many foreign companies setting up operations in India will be required to source 100 per cent of their inputs locally in various industries, with MSMEs playing a significant role. As seen in Table 2, MSME quality standards are on par with global benchmarks.

Table 2: Contribution of MSMEs to India’s exports

Year	Share of export of MSME related products in all India exports
2019-20	49.75%
2020-21	49.35%
2021-22	45.03%
2022-23	43.59%
2023-24	45.73%
2024-25*	45.79%

Source: PIB

Why should foreign companies establish MSME supply chains?

There are clear benefits to sourcing from MSMEs. Cummins, for example, has been localising its operations in India since the early 2000s. With plants in Jamshedpur, Pune, and other locations, Cummins found that manufacturing in India was cost-effective. However, the company needed a reliable network of vendors to meet its quality and quantity requirements. To achieve this, it studied industrial clusters where MSMEs were located and developed a dedicated network of vendors for specific manufacturing needs. Similar approaches have been successfully adopted by companies like Maruti and Bosch.

An ideal sourcing strategy would involve procuring capital-intensive components from large companies (e.g., Bharat Forge for forged parts or Mukand Iron & Steel for large castings) while sourcing smaller components from MSMEs, with a minor portion of imports. The Indian government mandates localisation of supply chains in many sectors, making MSMEs integral to business operations.

Cost-effectiveness is another major advantage. Indian MSMEs have been tested and found suitable for



Data transfers from MSME units further enable the government to monitor progress and design new schemes to support business growth.

many industries, with a strong emphasis on quality. Companies such as Mahindra have established in-house Total Quality Institutes to train specialists who work closely with vendors to maintain high standards. Vendor relationships in India are now built on mutual benefit, moving away from the traditional model of pressuring suppliers into compliance.

A third advantage is the reliability of deliveries. India’s infrastructure has significantly improved, with advancements in roads, railways, power, telecom, and digital payment systems. India now manufactures a wide range of products, from simple consumer goods to complex defence and aerospace equipment.

Another key development is the PM Gati Shakti Scheme (PMGSS), which integrates infrastructure development across ministries in real-time. The scheme enhances logistics efficiency, reduces transportation costs, and ensures seamless connectivity between manufacturing hubs and markets.

India is poised to become the world's third-largest economy in the coming years. With continued advancements in industry, technology, and infrastructure, partnering with Indian MSMEs offers foreign companies a strategic advantage in a rapidly growing market.

About the author:



R Jayaraman, Head, Capstone Projects, Bhavan’s S P Jain Institute of Management & Research (SPJIMR). He has worked in several capacities, including Tata Steel, for over 30 years. He has authored over 60 papers in academic and techno economic journals in India and abroad. Jayaraman is a qualified and trained Malcolm Baldrige and EFQM Business Model Lead Assessor.



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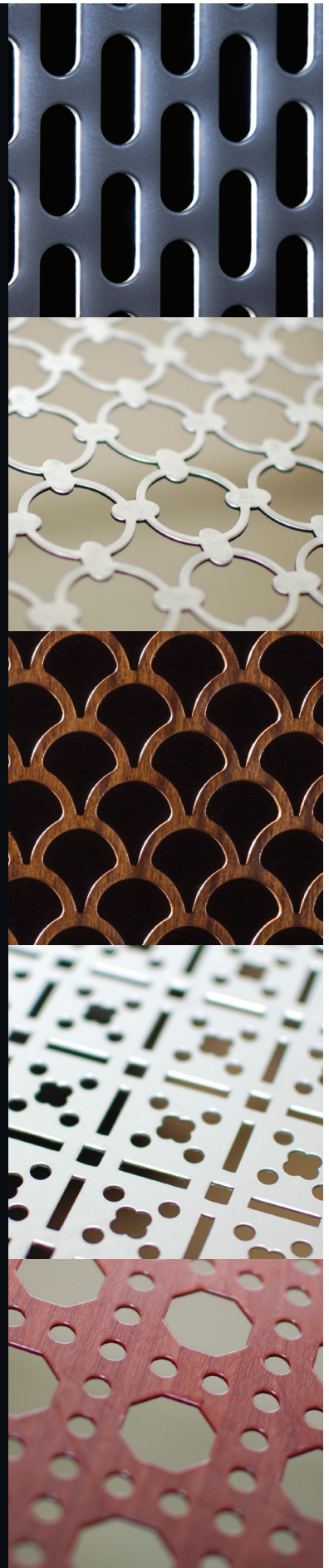
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“India’s engineering exports can surpass \$150 billion by FY27.”

With a contribution of around 25 per cent to total merchandise exports, India’s engineering goods sector is a significant driver of the country’s exports. While the US and EU remain the top destinations for engineering exports, India is actively expanding into new markets. **Pankaj Chadha, Chairman, EEPC India** (the apex organisation responsible for driving the country’s engineering exports), elaborates on the current global market scenario, India’s role in the evolving market and exports forecast, in this exclusive interview.

What is the projected target for India’s engineering goods exports in FY25?

India’s engineering goods exports are expected to reach between \$118 billion and \$120 billion in FY25. The official target set by the Ministry of Commerce stands at \$118 billion, but we are aiming for a more ambitious goal of \$125 billion. In FY24, exports declined by 8.5 per cent year-on-year, totalling \$108.9 billion, due to a global slowdown, trade restrictions, and supply chain disruptions. However, exports have rebounded in FY25, with a 9.92 per cent growth rate in the first ten months, driven by strong demand for industrial machinery, automotive components, and electrical equipment. Despite this recovery, exporters remain cautious about the impact of global trade uncertainties, rising raw material costs, and protectionist policies in key markets like the US and EU.

Which sectors contribute the most to India’s engineering exports?

India’s engineering exports span a wide range of industries, with industrial machinery leading the sector, accounting for 22 per cent of total exports. This includes power generation equipment, construction machinery, and textile machinery, which have seen steady demand in emerging markets. Iron and steel products follow closely, contributing 15-18 per cent of exports. However, rising domestic steel prices pose a challenge for small and medium-sized exporters. The automobile and auto components industry is another significant contributor, making up 12-14 per cent of total engineering exports, with strong demand from markets like the US, EU, and Africa. Electrical equipment and electronics exports, including power distribution



Pankaj Chadha,
Chairman, EEPC India

transformers, circuit breakers, and semiconductors, are projected to surpass \$15 billion in FY25. Additionally, aerospace and shipbuilding components are emerging as key segments, supported by India’s efforts to strengthen its defence manufacturing sector.

How do US tariffs impact Indian engineering exports?

The recent US decision to impose a 25 per cent tariff on steel and aluminium imports from India, effective March 12, 2025, is expected to significantly impact Indian exporters. Previously, India enjoyed exemptions covering nearly 60-80 per cent of its steel exports to the US, allowing it to remain competitive. With these exemptions now expiring, Indian exporters will face higher costs, making

their products less attractive compared to suppliers from countries like Canada and Mexico, which have preferential trade agreements with the US. The full impact of these tariffs will be felt in FY26, as Indian exporters either absorb the costs or shift focus to alternative markets such as Southeast Asia and the Middle East. Industry bodies have urged the government to negotiate tariff relief, but given the current global trade environment, securing exemptions may prove challenging.

What challenges does the EU pose for Indian engineering exports?

The European Union, India’s second-largest market for engineering goods, is implementing two major policy changes that could disrupt exports. The first is a reduction in safeguard quotas for steel imports. Under the current system, the EU allows a certain volume of duty-free steel imports each quarter, beyond which a 25

per cent tariff is applied. Indian exporters frequently hit these limits within days, forcing them to pay additional duties on excess shipments. If these quotas are reduced further, Indian steel and engineering exports will face even stricter trade restrictions. The second challenge comes from the Carbon Border Adjustment Mechanism (CBAM), a new carbon tariff on imported goods, including steel, aluminium, and industrial machinery. From January 1, 2026, Indian exporters will be required to pay additional levies based on the carbon footprint of their products. While some Indian steel manufacturers are investing in green hydrogen and low-carbon technologies, full-scale implementation will take time, potentially increasing costs for exporters in the short term.

Did the Union Budget 2025-26 introduce any measures to support engineering exports?

The Union Budget did not provide significant direct incentives for engineering exporters, despite industry demands. One of the key concerns is the uncertainty surrounding the interest subvention scheme, which provided a 3 per cent interest subsidy on loans for MSME exporters but expired on December 31, 2024. Industry leaders had expected an extension of this scheme, as higher financing costs could reduce competitiveness. However, no announcement was

made, leaving exporters uncertain about future borrowing costs. Another concern is the government’s possible introduction of safeguard duties on imported steel to protect domestic producers. While this would benefit large Indian steel manufacturers, it could lead to higher input costs for MSME exporters who rely on competitively priced raw materials for engineering goods production.

The Indian government is also expanding trade promotion activities by encouraging participation in global trade fairs like Hannover Messe and Bauma, providing Indian exporters with a platform to showcase their products and attract international buyers.

How is India leveraging the China Plus One strategy?

India is benefiting from the China Plus One strategy, as multinational companies seek to diversify their supply chains away from China. Several factors are driving this shift. The government’s Production-Linked Incentive (PLI) scheme is attracting investments in sectors such as electronics, industrial machinery, and

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automotive exports, helping India strengthen its position as a global supplier. Additionally, India has signed free trade agreements (FTAs) with key markets like the UAE and Australia, offering duty-free access to Indian exporters. Despite these advantages, global protectionist policies continue to pose challenges. The US and EU are tightening trade regulations, which could limit India's ability to fully capitalise on supply chain shifts.

How is the Indian government addressing industry concerns?

The government is actively engaging with exporters to help them navigate global trade challenges. Negotiations for the India-EU Free Trade Agreement (FTA) are ongoing, with a focus on securing preferential access for engineering goods to offset trade barriers like CBAM and safeguard quotas. The Indian Commerce Minister is expected to visit Europe soon to accelerate discussions. Additionally, the government is conducting consultations on steel pricing, as MSME exporters rely on competitively priced steel to remain viable in global markets. Industry bodies such as EEPC India have urged the government to introduce a transparent pricing mechanism to prevent cost escalation. The government is also expanding trade promotion activities by encouraging participation in global trade fairs like Hannover Messe and Bauma, providing Indian exporters with a platform to showcase their products and attract international buyers.

What are India's emerging export markets?

While the US and EU remain the top destinations for engineering exports, India is actively expanding into new markets. The Gulf Cooperation Council (GCC) nations, including Saudi Arabia, the UAE, and Qatar, have emerged as major buyers, driven by large-scale infrastructure projects. Southeast Asia is another promising region, with countries like Vietnam, Indonesia, and Thailand increasing their imports of electrical equipment and automobile components from India. Africa is also becoming a key market, particularly in power generation and transportation sectors, as infrastructure projects in Kenya, Nigeria, and South Africa continue to grow.

How does the global economic outlook affect engineering exports?

The global economic landscape remains uncertain, impacting India's engineering exports. Slowing growth in advanced economies like the US, EU, and Japan could lead to lower demand for industrial machinery and capital-intensive goods. Rising global interest rates have made borrowing more expensive for buyers, reducing their ability to invest in large engineering projects. Geopolitical tensions, particularly the Russia-Ukraine conflict and US-China trade disputes, continue to disrupt supply chains, affecting logistics and raw material availability. However, the global push for



Despite short-term challenges, India's engineering exports have strong growth potential over the next few years.

renewable energy and infrastructure development is creating new opportunities for India, as demand for solar energy equipment, power transmission systems, and green technologies increases worldwide.

What is the long-term outlook for India's engineering exports?

Despite short-term challenges, India's engineering exports have strong growth potential over the next few years. Future growth will depend on successful trade negotiations with the EU and other major economies, as well as increased investment in value-added manufacturing to move beyond raw material exports. The diversification of export markets beyond the US and EU will also be crucial in mitigating trade risks. Additionally, India's adoption of green manufacturing technologies will determine its ability to comply with evolving global environmental regulations. If India effectively navigates these challenges, engineering exports could surpass \$150 billion by FY27, making the sector a key driver of India's economic growth.



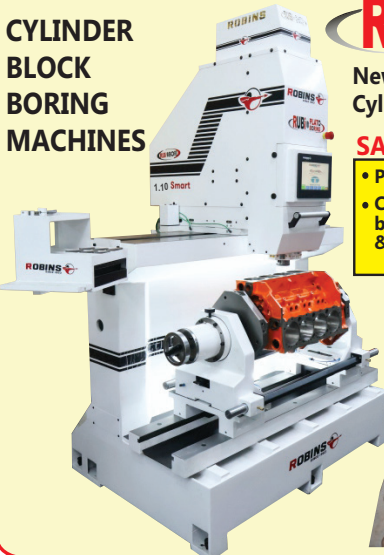
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- Cylinder Block Boring & Surfacing Machines (Hole to Hole automated)
- Valve Seat Cutting & Guide honing Machines
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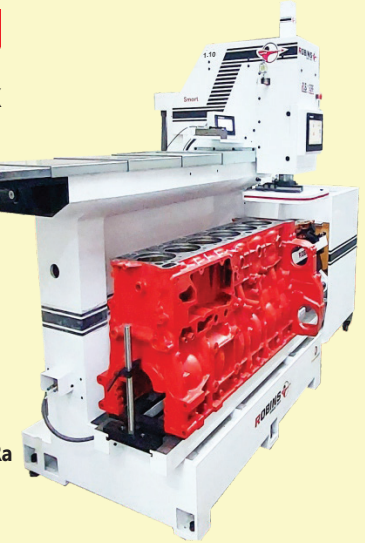
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“India and Germany share a strong commitment to sustainability.”

Germany stands as India's largest trading partner within the European Union (EU), underscoring the robust economic ties between the two nations. To strengthen economic ties, both nations must simplify regulatory frameworks, enhance infrastructure, and deepen workforce skilling efforts. With 51 per cent of German companies in India planning to increase investments, the future of Indo-German industrial cooperation looks promising, states **Rajesh Nath, Managing Director, VDMA India**.

How would you describe the current state of trade relations between India and Germany? Which sectors are driving this bilateral trade?

The trade relations between India and Germany have experienced significant growth, with bilateral trade surpassing \$30 billion in 2023. As of 2024, India's exports of machinery and components to Germany have surged to \$ 4.13 billion, marking a four-fold increase from the previous year. Germany stands as India's largest trading partner within the European Union (EU), underscoring the robust economic ties between our nations.

Several sectors are pivotal in driving this bilateral trade. The machinery and engineering goods sector remains central, with German technology playing a vital role in India's industrial growth. The automotive sector is another key pillar, given the push toward electric mobility and advanced manufacturing. Additionally, renewable energy, green hydrogen, and environmental technologies are gaining traction as both nations focus on sustainable industrial solutions. Digitalization and AI-driven manufacturing are also shaping the future of this collaboration, opening new avenues for Industry 4.0 applications.

With India emerging as a global manufacturing hub under initiatives like Make in India and Production-Linked Incentives (PLI), and Germany's leadership in high-tech industrial solutions, the synergy between our nations is set to grow further. As VDMA, we see immense potential in fostering deeper technology partnerships, skill development initiatives, and investments that can elevate India's manufacturing landscape to global standards.



**Rajesh Nath, MD,
VDMA India**

What key lessons can India and Germany learn from each other to enhance economic cooperation and trade growth?

India and Germany have long been economic partners, and both nations have valuable lessons to exchange to further strengthen trade and industrial collaboration.

Germany's engineering prowess, particularly in precision manufacturing and automation, offers valuable insights for India as it scales up its industrial capabilities. The German Mittelstand (small and medium-sized enterprises) provides a successful model of innovation-driven, export-oriented businesses that India can adapt to enhance the global competitiveness of its MSMEs. Additionally, Germany's commitment to vocational training and skill

development through its dual education system can be a game-changer for India's growing workforce, ensuring a steady supply of highly skilled talent for advanced manufacturing.

Conversely, Germany can learn from India's agility, digital innovation, and cost-effective production capabilities. India has emerged as a leader in IT, software, and AI-driven solutions, which can greatly benefit German manufacturers looking to integrate smart technologies into their processes. Moreover, India's experience in large-scale manufacturing, flexible supply chains, and cost efficiency offers valuable insights as Germany looks to diversify its production bases.

Both nations share a strong commitment to sustainability and green technology. Deeper collaboration in areas like green hydrogen, renewable energy, and environmental technologies can accelerate mutual growth. By combining Germany's technological strength with India's dynamic market potential, the two

countries can drive a new era of industrial cooperation, ensuring long-term economic resilience.

Which industries or sectors offer the most potential for collaboration between Indian and German companies? Are there any emerging areas where you see significant synergy?

India and Germany share a robust economic partnership, with bilateral trade reaching \$26.48 billion in 2024 (\$16.64 billion in imports from Germany and \$9.84 billion in exports). As Germany remains India's largest trading partner in the EU, both nations see significant opportunities for expansion.

Sustainability and green technologies are key collaboration areas, with Germany pledging €1 billion for projects in renewable energy, urban development, and sustainable agriculture. The AI and semiconductor sectors also hold great promise, as both nations aim to establish resilient global supply chains and strengthen technological cooperation. The automotive industry, particularly electric mobility, presents another high-potential area, leveraging Germany's engineering expertise and India's rapidly growing EV market. Similarly, defence cooperation is a strategic priority, with discussions on joint submarine construction between German firm Thyssenkrupp and Indian partners.

Addressing Germany's demographic challenges, skill development and vocational training are becoming increasingly important. Germany has raised visas for skilled Indian workers from 20,000 to 90,000 per year, responding to growing demand in IT, healthcare, and engineering.

With 51 per cent of German companies in India planning to increase investments, the future of Indo-German industrial cooperation looks promising. Strengthening these collaborations will drive innovation, economic resilience, and long-term growth for both economies.

How can German firms contribute to increasing the global competitiveness of Indian companies, especially in manufacturing and engineering?

German firms are instrumental in boosting the global competitiveness of Indian manufacturing through technology transfer, innovation, and skill development. As India advances towards becoming a global manufacturing hub, collaboration with Germany can accelerate this shift.

Germany's expertise in precision engineering, automation, and Industry 4.0 offers Indian firms access to AI-driven manufacturing, IoT-enabled production, and robotics, enhancing efficiency and product quality. JVs facilitate the adoption of advanced CNC machines and smart factory solutions, helping Indian manufacturers move up the value chain.

Joint R&D initiatives further drive innovation, combining Germany's research strengths with India's cost-effective engineering talent. Expanding programs like the Indo-German Science & Technology Centre



By combining Germany's technological strength with India's dynamic market potential, the two countries can drive a new era of industrial cooperation, ensuring long-term economic resilience.

(IGSTC) can lead to breakthroughs in materials science, machine tools, and sustainable manufacturing.

Adopting global quality standards such as DIN, ISO, and VDA is essential for Indian firms to strengthen their exports. German companies emphasize these benchmarks, ensuring products meet international requirements and boosting India's reputation as a trusted global supplier.

Workforce development is another key area, with German firms like Siemens, Bosch, and Festo already running training centres in India. Expanding Germany's dual vocational training system will equip Indian workers with next-generation manufacturing skills.

Sustainability is also crucial, and Germany's leadership in energy-efficient production, green hydrogen, and circular economy practices can help Indian manufacturers align with global carbon neutrality goals, ensuring long-term competitiveness.

With over 1,800 German companies in India, strengthening these partnerships will drive productivity, innovation, and global market expansion, solidifying India's position as a key player in advanced manufacturing.

How has the Make in India initiative influenced German investments in India? What challenges do German firms face while setting up or expanding their presence in India?

The Make in India initiative has significantly boosted German investments, with over 1,800 German companies now operating in India across automotive, machinery, electrical equipment, and renewable energy. Favourable policies, infrastructure development, and incentives like PLI schemes have strengthened India's position as a global manufacturing hub, aligning well with Germany's expertise in precision engineering and Industry 4.0. Bilateral trade reached \$26.48 billion in FY 2024, reflecting growing economic ties.

However, regulatory complexity remains a challenge, with bureaucratic hurdles slowing approvals despite improvements in India's Ease of Doing Business

ranking. Infrastructure bottlenecks in logistics and supply chains also pose difficulties, though initiatives like Gati Shakti aim to address these gaps. A key issue is the skill gap in advanced manufacturing. While India has a large workforce, expertise in automation, robotics, and precision engineering is still developing. German firms are investing in vocational training and skilling programs to bridge this gap. Cultural differences in business operations also require adaptation, with German firms emphasizing process discipline and long-term planning, while India's dynamic market often demands flexibility.

Despite these challenges, investment confidence remains strong. The latest VDMA Business Climate Survey in India suggests that German companies remain optimistic about their growth prospects, with 56 per cent expecting positive business performance this fiscal year. Among surveyed members, 60 per cent already have local manufacturing operations in India, and of these, 69 per cent plan to expand further. Additionally, 27 per cent of companies without existing facilities are considering setting up manufacturing in India soon. This strong intent to scale operations reflects growing confidence of German manufacturers in India's industrial ecosystem and its increasing role in global supply chains.

In what ways can German firms use India's market potential, workforce, and cost advantages to enhance their global business prospects?

India offers a vast market, a skilled workforce, and significant cost advantages, making it an ideal hub for German firms to strengthen their global business footprint. With a \$3.7 trillion economy and projected GDP growth of over 6.5 per cent in 2024, India provides high demand across sectors, from automotive and industrial machinery to renewable energy and digital technology.

German companies can leverage India's cost-efficient manufacturing ecosystem to improve global competitiveness. Labour costs in India are 30-40 per cent lower than in Europe, while operational expenses, including real estate and logistics, are significantly more competitive. Establishing production and R&D centres in India allows German firms to optimise costs while maintaining quality and innovation.

India's skilled workforce, particularly in engineering, IT, and automation, is another key advantage. With 1.5 million engineers graduating annually, German firms can tap into a large talent pool for roles in high-tech manufacturing, AI-driven industrial automation, and advanced materials research. Many German companies, including Bosch, Siemens, and SAP, have already established global R&D hubs in India.

Beyond manufacturing, India is emerging as a hub for digital transformation and Industry 4.0 solutions. German firms can collaborate with Indian tech companies to develop smart factories, AI-driven

predictive maintenance, and IoT-enabled production lines, strengthening their global supply chain resilience.

With free trade agreements under negotiation and initiatives like PLI schemes and Gati Shakti improving infrastructure, India is becoming an integral part of global supply chains. By expanding operations here, German companies can enhance cost efficiency, access a growing market, and develop cutting-edge solutions, reinforcing their global leadership in manufacturing and engineering.

Given the current global economic uncertainties, how do you see the future of Indo-German trade relations evolving? What steps should both nations take to strengthen economic ties further?

Over the past decade, German FDI inflows into India have exceeded €13 billion, with major investments in automotive, industrial machinery, green energy, and digital industries. Despite global economic uncertainties, Germany remains India's largest trading partner in the EU, and with India's GDP projected to grow over 6.5 per cent, the country is emerging as a key pillar in Germany's global supply chain diversification strategy.

Looking ahead, technology collaboration, sustainability, and workforce development will shape the future of this partnership. Germany's leadership in Industry 4.0, automation, and renewable energy aligns well with India's push for manufacturing expansion and digital transformation. For instance, German firms like Siemens and Bosch are already investing in India's smart manufacturing and AI-driven industrial solutions. Expanding joint R&D initiatives, enhancing PLI incentives, and fast-tracking the India-EU Free Trade Agreement (FTA) will further accelerate trade and investment flows.

To strengthen economic ties, both nations must simplify regulatory frameworks, enhance infrastructure, and deepen workforce skilling efforts. Logistics improvements through India's Gati Shakti program and ongoing investments in port modernisation and industrial corridors will help German firms operate more efficiently. Additionally, Germany's dual vocational training model can help India bridge its skilled labor gap, particularly in EV manufacturing, advanced robotics, and semiconductor production—sectors where India is making rapid advancements.

With over 200 German Mittelstand companies (renowned for precision engineering and innovation) actively expanding in India, the momentum for deeper collaboration is clear. By scaling up investments in strategic sectors like electric mobility, hydrogen technology, and semiconductor manufacturing, Indo-German trade will not only withstand global challenges but also drive long-term industrial growth, innovation, and economic resilience.



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“BXL Enterprise is eyeing entry into Europe and the Americas.”

The Mumbai-based BXL Enterprise offers a very wide variety of limit switches used across industries. In this interview, **Abhishek Bohra, CEO, BXL Enterprise**, explains why the company is a valuable partner for international companies looking to source from India.

Can you give us a brief introduction to BXL Enterprise?

BXL Enterprise is our new management identity that has emerged from the cocoon of quality and reliability spun by the founding team of Bohmen Industries (our firm's former name) and subsequent members. Our core product line of limit switches or position switching devices, under our brand “BOHMEN” has a strong association with reliable performance across all types of industries, in India and abroad.

We can design, develop and produce customised devices for specific applications/processes besides offering bulk production capabilities of industry standard devices.



Abhishek Bohra,
CEO, BXL Enterprise

What differentiates your electromechanical switching devices from competitors?

BOHMEN offers a very wide variety of limit switches covering most applications, material requirements and contact functions. Our products provide reliable switching performance over years saving critical downtime costs and production losses.

What are the primary industries driving demand for your products?

We are seeing sustained growth in core sectors like construction machineries, conveyor systems, rail coach building, die moulds, elevators, power equipment, boilers and many more. Our products are very attractive to global setups, provided we up the ante, in all aspects, whether economic or aesthetic. Our designs focus on both to compete with the world's best.

How significant is exports to BXL's overall business?

Exports are necessary for maximising value addition on our products and for understanding what the modern manufacturers seek in their newer

developments. We have a few customers in Asia & Africa, but are seeking entry into Europe and the Americas with our products.

What are BXL's key strengths that set it apart from competitors?

Our focussed product line helps us in catering to bulk buying majors who are leaders in their respective industries. We aim to excel in a niche field. Our experienced team sources the best quality raw materials at competitive prices, while in-house tool development helps in containing manufacturing costs, thereby ensuring component level reliability that leads to final product reliability.

Are you seeing India emerging as a major sourcing destination for global companies?

Indian culture of frugal practices, coupled with knowledgeable teams adopting global processes, has created a solid base of manufacturers that are able to communicate, understand and achieve the required parameters of any global product or service. We can help add value to global supply chains in fast, efficient and simple ways than most other emerging nations.

What are your expansion plans?

We will invest in modern machineries that will help us achieve a global product aesthetic. We have established a vendor group with automated machining lines for fast and consistent components. We are exploring the possibility of ATEX certification for our products to cater to hazardous area applications. A number of elevator majors are exporting their equipment's fitted with our switches. We are tapping into the elevator industries globally to secure some long term customers as well.



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“Safcon leads the way in utility meter security seals.”

The Kolkata-based Safcon Seals Pvt Ltd is a specialised manufacturer of security seals, offering tamper-evident and high-barrier solutions to curb theft, pilferage, and adulteration, with applications across various sectors including utilities, transport, and more. In this interview, **Rajesh Kumar Banka, Managing Director, Safcon Seals Pvt Ltd**, shares more details about the company and importance of security seals.

What are your company's flagship products, and how do they differentiate from other market offerings?

Our flagship products include tamper-evident plastic security seals, barcoded tamper-resistant metal-inserted plastic security seals, and tamper-evident security labels. These products stand out due to their advanced security features, durability, and ease of use. Unlike many market offerings, our products provide maximum protection against tampering and counterfeiting while remaining cost-effective.

What are the primary challenges faced by customers, and how does your company address them?

Customers in this segment often face challenges related to the authenticity and security of their products. At Safcon Seals Pvt Ltd, we address these issues by providing high-quality, tamper-evident seals with advanced security features that ensure product integrity and prevent unauthorized access. Our solutions are designed to be both user-friendly and highly effective in deterring counterfeiting.

What specific measures does Safcon Seals take to ensure the long-term reliability and durability of its security seals, especially in harsh utility environments?

At Safcon Seals, we prioritise the longevity and robustness of our security seals by using high-quality materials that withstand extreme temperatures, UV exposure, and chemical corrosion. Our seals undergo rigorous testing to ensure reliable performance in harsh utility environments.

How does Safcon Seals design its security seals to provide clear and indisputable evidence of tampering?

Our security seals are engineered with unique



Rajesh Kumar Banka,
MD, Safcon Seals Pvt Ltd

tamper-evident features such as breakaway components, colour changes, and irreversible markings. These features provide clear and indisputable evidence of tampering, even in remote or unattended locations.

How does Safcon Seals adapt its security seal solutions to meet the unique needs of different utility companies, such as water, gas, and electricity?

We customise our security seal solutions to meet the specific requirements of different utility companies worldwide. Our electricity meter seals are built to withstand extreme environmental conditions, as meters are often installed in open environments. They are resistant to

high temperatures, direct sunlight, and rain exposure. Our water utility seals resist moisture and corrosion, while our gas meter seals are designed to withstand high temperatures and pressure.

All our meter seals provide the highest level of protection for utility meters, ensuring revenue loss prevention. Each seal is meticulously crafted and undergoes a rigorous quality control process to ensure optimal security. In addition to a utility's security ID and serial numbers, each seal features a DPM 2D data matrix barcode for digital reading, recording, and verification. Unlike market trends that use barcode stickers, we integrate barcodes directly into the seal to prevent counterfeiting. Stickers compromise transparency and can be easily duplicated, whereas our method ensures authenticity. An additional encrypted code enhances security, guaranteeing the integrity of the original seal.

How is Safcon Security Seal positioned in the utility segment, and what sets it apart from competitors?

Safcon Security Seal is a pioneer in polycarbonate

security seals and was the first to introduce meter seals in 2001, replacing traditional lead seals that were used solely for statutory sealing requirements. Today, Safcon is a leader in India's utility meter segment. Our commitment to innovation and quality sets us apart. We continuously invest in the latest technologies and materials to provide the most secure and reliable meter sealing solutions. Our pioneering spirit and ongoing technological advancements position us at the forefront of the industry.

What specific high-security features are incorporated into Safcon Seals' products to deter theft and tampering in the transport and cargo industry?

Safcon Seals offers a wide range of security seals with advanced features such as customer security IDs, unique serial numbers, DPM 2D data matrix barcodes, and encrypted security codes. These features deter theft and tampering by enabling easy tracking and verification of the seal's authenticity.

The new range of Safcon security seals is user-friendly, cost-effective, and suitable for various applications. For example, our double-lock container seal provides the highest level of security for containers and trucks, serving as an alternative to ordinary bolt container seals. This specially designed seal features double locking with an anti-spin mechanism to prevent tampering. Our rugged barrier metal bolt container seals are impossible to remove without a specialized 24-inch bolt cutter.

Another innovation from Safcon is the cable seal, an inexpensive, weather-resistant, high-security seal that requires no tools for installation. It features a break-off screw for secure fastening and is ideal for protecting food, chemicals, pharmaceuticals, petroleum, and waste in transit. Cable seals are highly versatile and can be used in various applications. Other effective locking devices in our new range include Safe-grip, Ball-lok, Mini-tite, Pad-lok, Pull-tite, Hasp-lok, Fixed-length, Anchor wire security seals, and tamper-evident security labels—each designed for cost-effective industrial security and product protection.

Please outline your client engagement process, from initial requirement gathering to product delivery and post-sales support.

Our customer engagement process begins with a thorough understanding of the customer's requirements. We then provide customized solutions tailored to their specific needs. From the initial consultation to product delivery and post-sales support, we ensure a seamless and satisfactory experience. Our dedicated customer support team is always available to address concerns and provide ongoing assistance. Notably, many of our customers have remained loyal for 10 to 20 years due to their satisfaction with our product quality, timely delivery, and responsive after-sales service.

What is your team's collective expertise, and how does it contribute to the company's growth?

Our team comprises experts with extensive experience in security seals and packaging. Their collective expertise and innovative approach have been instrumental in driving the company's growth. Continuous training and development ensure that our team stays ahead of industry trends and technological advancements.

How has your company evolved since its inception in terms of client acquisition and geographical expansion?

Since its inception, Safcon Seals has experienced significant growth in client acquisition and geographical expansion. We have established a strong global presence and are continuously exploring new markets. Our unwavering commitment to customer satisfaction and quality has helped us build a loyal client base and expand our reach.

What future trends and innovations is Safcon Seals exploring to further enhance the reliability and security of its products?

R&D is our top priority in the security seal business. We continuously explore new technologies and materials to enhance the reliability and security of our products. At Safcon, we believe that "Poor Security is No Security," and this principle drives our pursuit of innovation. We remain committed to leading the industry through ongoing product and service improvements. Plans for geographical expansion and market entry are also on the horizon.

How does Safcon Seals ensure that its security seals comply with relevant industry standards and regulations, both domestically and internationally?

Safcon Seals ensures compliance with all relevant domestic and international industry standards and regulations. We work closely with regulatory bodies and industry associations to stay updated on the latest requirements and best practices.

Is there any additional information you'd like to share about your company?

At Safcon Seals Pvt Ltd, we are dedicated to providing our customers with the highest level of security solutions and peace of mind. Our commitment to quality, customer satisfaction, and continuous improvement drives us to develop products that meet the highest security and performance standards. We are honoured to receive these awards and will continue striving for excellence in all our endeavours.



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Artificial Intelligence: @Hannover Messe 2025

This year, at Hannover Messe, the spotlight will be on artificial intelligence (AI) in industry. The event will showcase how AI technologies can optimise production processes, boost efficiency and sustainably advance companies' competitiveness.



Hannover Messe - the world's leading industry trade show - will take place from March 31 to April 4, 2025. More than 4000 exhibiting companies from the engineering, electrical and digital industries, as well as the energy sector, will come together under the main theme of "Industrial Transformation" to present solutions for production and energy supply, today and tomorrow. The main exhibiting areas for 2025 will be Smart Manufacturing, Digital Ecosystems, Energy for Industry, Compressed Air & Vacuum Technology, Engineered Parts & Solutions, Future Hub and International Trade & Investment. A conference program with around 1,600 speakers complements the program. The partner country is Canada.

In line with the motto "Energizing a sustainable industry", it will focus on topics such as sustainable energy solutions, smart manufacturing, AI and digital ecosystems. With the digital transformation now in full swing, AI is increasingly becoming a crucial success factor in industry.

At Hannover Messe, numerous exhibitors will demonstrate how AI solutions are being implemented in real-world applications. In addition, AI trends and use cases will be presented and discussed on major stages and in masterclasses. For the first time, Hannover Messe will offer an interactive, web-based Dynamic Tour, guiding participants to the most exciting AI highlights of

the event. This will allow visitors to explore practical applications in areas such as production, robotics, and energy, all at their own pace.

AI for SMEs

At the Mittelstand-Digital stand in Hall 17, visitors from the SME sector can try out digital solutions and AI applications firsthand and schedule discussions with experts from Mittelstand-Digital and the German Network of European Digital Innovation Hubs. Germany's Federal Ministry for Economic Affairs and Climate Action (BMWK) is providing cost-free access to all Mittelstand-Digital offerings. Visitors are encouraged to complete Mittelstand-Digital's AI Readiness Check in advance to gain a comprehensive assessment of their

own strengths and potential, as well as tailored recommendations for improving their AI maturity.

There will be many companies displaying their AI-based products and solutions at the event.

Siemens will present forward-looking solutions for the pharmaceutical industry, focusing on the integration of industrial AI into pharmaceutical production. The creation of a digital twin for existing facilities is facilitated by what are known as industrial copilots. Siemens' industrial copilot for their TIA Portal is a generative AI-driven assistant for automation engineers using the TIA Portal. It helps engineers generate SCL code faster, answer engineering questions, and create HMI visualizations.

Aleph Alpha will host a masterclass demonstrating how generative AI can make critical business processes 30 percent more efficient. The company will share insights from numerous customer projects and their implementation in production.

The German Research Center for Artificial Intelligence (DFKI) will showcase how autonomous robots can be efficiently trained in the future. A key focus here is on simulations designed to serve as an experiential foundation for intelligent autonomous robotic systems. These simulations enable neural networks to be trained and algorithms developed on the basis of model predictive control, allowing robots to perform tasks independently.

Platform Industrie 4.0

At the joint stand, various demonstrators will illustrate how companies can unlock potential for new business models and services within data ecosystems. Highlights include a collaborative robot from the Robot-X project, designed to make robotic systems more accessible to small and medium-sized enterprises across various industries. The Factory-X project will demonstrate the practical implementation of the Digital Product Passport and how digital twins can enable industrial use cases such as 'traceability' and 'carbon footprint management' within a data ecosystem. The industrial metaverse will also be on display; it bridges digital and physical worlds in industry and represents the next step in the evolution of connected production through the integration of data ecosystems, digital infrastructure, and AI. Central to this are demonstrators showcasing industrial metaverse applications in product development, training, and simulation.

AI on stage

A series of expert presentations and panel discussions will give visitors the opportunity to learn from leading experts and discover best practices. Companies such as Altair, Beckhoff, Bosch, Google Cloud, PSI, SAP, and Siemens will present their latest AI-driven solutions and demonstrate how these technologies can be implemented in practice. Additionally, startups and research institutions like DFKI,



At Hannover Messe, numerous exhibitors will demonstrate how AI solutions are being implemented in real-world applications.

Fraunhofer, and KIT will introduce innovative approaches with the potential to transform industry sustainably. AI will take center stage on all major platforms at Hannover Messe, including the Industrie 4.0 Stage in Hall 8, the Energy 4.0 Stage in Hall 13, and the Digital Transformation Stage in Hall 17. There, Thursday will be dedicated to AI in industry, featuring a full day of presentations by AI experts and use cases, continuing the successful Industrial AI Conference series.



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NEWS SNIPPET

Igus to display sustainable motion plastic solutions

At Hannover Messe 2025 (HM25), igus will display a wide range of plastic innovations and solutions from the world of motion technology. The company will showcase sustainable motion plastic solutions, including the new e-chain series made from recycled materials and PTFE-free bearing options, designed to enhance efficiency and reduce environmental impact. With Go Zero, the company will show how to save costs, increase efficiency and sustainability and use the automation and robotics of tomorrow right now.

Igus aims to support customers with innovative technologies that pay off immediately. To this end, it offers 277 new products at the Hannover Messe that will help them reduce emissions, dispense with PTFE and lubrication, support recycling, make better use of



machines and reduce routine work. Some of the products include:

- Zero PTFE: All best-selling materials from iglidur now also PTFE-free
- Zero lubrication: xiros ball bearings made of plastic and ceramic, ideal for extreme temperatures and chemicals (more about GO ZERO Lubrication).
- Zero waste: The first complete energy chain series E2.1 made from recycled material.
- Zero downtime: Condition monitoring with smart plastics now also available for vertical travels.
- Zero emissions: Mobile shore power system iMSPO for clean ports (nominated for the Hermes Award 2025).
- Humanoid robot: The first humanoid robot from Cologne - Low Cost Automation from igus.

“India plays a crucial role in the global manufacturing industry.”

...says Dr Jochen Köckler, Chairman of the Managing Board of Deutsche Messe AG – the organiser of Hannover Messe trade fair.

In today's highly volatile global marketplace, how important are trade fairs like Hannover Messe for companies?

Trade fairs like Hannover Messe are pivotal in providing companies with a platform to showcase innovations, engage in knowledge exchange, and establish strategic partnerships. In an unpredictable global market, such events facilitate direct interactions, enabling businesses to explore new markets and solidify their international presence.

Hannover Messe transcends traditional exhibitions by serving as a comprehensive business facilitator. It offers a robust conference program featuring over 1,600 speakers, including visionaries and industry experts, who discuss trends, use cases, and solutions on topics like artificial intelligence, sustainable production, and edge computing. This knowledge-sharing fosters networking opportunities, enabling attendees to connect with global professionals, decision-makers, and innovators to explore partnerships and business opportunities.

How is Hannover Messe 2025 aligned with the key emerging industry trends?

Key emerging industry trends include the integration of artificial intelligence (AI), the advancement of smart manufacturing, and the pursuit of sustainability. Hannover Messe 2025 aligns with these trends by dedicating significant focus to AI applications in manufacturing, showcasing how AI can revolutionize the entire value chain and boost competitiveness. The event's Smart Manufacturing exhibition area will feature companies demonstrating cutting-edge technologies and integrated Industry 4.0 solutions designed to enhance production efficiency and global competitiveness.

What are the highlights of Hannover Messe 2025?

Hannover Messe 2025 will feature several highlights:

- Partner Country Pavilion: Canada, as the official partner country, will showcase its advancements



Dr Jochen Köckler,
Chairman of the Managing Board
of Deutsche Messe AG

in areas such as artificial intelligence, quantum physics, electric vehicles, advanced materials, clean energy, automation, and robotics.

➤ Digital Ecosystems Exhibition Area: Over 600 companies will present applications ranging from intelligent machine networking to the digitalization of supply chains, offering insights into the future of digitally networked industry.

➤ Smart Manufacturing Area: Spanning seven halls, this area will highlight advancements in automation, sensor technology, robotics, logistics automation, and drive and fluid technology, with a strong focus on AI's role in manufacturing innovation.

How has been the participation of India in Hannover Messe over the past few years?

India plays a crucial role in the global manufacturing industry, with its engineering capabilities and growing emphasis on innovation and sustainability. The country's focus on sectors like automation, robotics, and digital manufacturing positions it as a significant contributor to global industrial transformation.

India has been an active participant in Hannover Messe, serving as the official partner country in 2015. In 2025, we anticipate a robust presence with approximately 70 to 100 Indian exhibitors, reflecting the country's growing influence in the global manufacturing landscape.

Any message to visitors/exhibitors...

I warmly invite all visitors and exhibitors to engage fully with the diverse opportunities at Hannover Messe 2025. Embrace the chance to explore cutting-edge technologies, participate in insightful discussions, and forge meaningful connections that will drive industrial innovation and sustainable growth. Your active participation is key to shaping the future of industry.



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POWER CONVERSION SYSTEMS

POM Systems & Services Pvt Ltd offers a wide range of PCS power conversion systems energy storage.

Features:

- PCS power conversion system energy storage is a multi-functional AC-DC converter by offering both basic bidirectional power converters factions of PCS power and several optional modules which could offer on/off grid switch and renewable energy access.
- Ranging from 50kW to 250kW, the PCS converter well fits the requirement of battery energy storage in commercial and industrial applications.
- Both energy storage PCS power conversion system and Lithium-ion battery system are made by POM Power in house.

About the Company: POM Systems & Services Pvt Ltd specialises in, smart energy storage solutions like grid renewable energy storage systems, lithium batteries, solar power products and distributed solar power solutions.

Contact:

POM Systems & Services Pvt Ltd, Bangalore
Tel: +91 80 2837 2296; Mob: +91 98440 34106
Email: pompower@pompower.in



TRANSFORMERS

Miracle Electronic Devices Pvt Ltd offers a wide range of transformers.

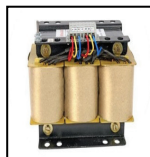
Features:

- Miracle's transformer range is designed to meet the diverse power requirements of various industries. The company specialises in EI transformers and Toroidal transformers, both available in single-phase and three-phase configurations, catering to different voltage and current requirements.
- Toroidal transformers offer high efficiency, compact design, and minimal electromagnetic interference, making them ideal for medical devices, audio equipment, and industrial automation. Meanwhile, EI transformers, known for their robust and cost-effective construction, are widely used in industrial power supplies, automation systems, and general machinery.

About the Company: Miracle Electronic Devices supplies high-quality transformers and wire harnesses to industries such as medical, aerospace, industrial automation, general machinery, and the audio industry.

Contact:

Miracle Electronic Devices Pvt Ltd, Bangalore
Tel: +91 80 2836 2750; Email: sales@miracle.net.in



COMBINATION TIMERS

Electronic Automation Pvt Ltd (EAPL) offers a wide range of combination timers.

Features:

- They are independently programmable - 8 relays, 8 On-Off timings programmable for each relays (overall 64 combinations).
- They have features such as hold/restart, single/repeat cycle, time inhibit/pause -user selectable, non-potential pulse start signal for timer initiation, etc.
- They are used in air dryers, nitrogen and other gas plants, process industries and many more.

About the Company: EAPL is one of the earliest establishments in Bangalore to be certified under ISO 9001:2008 by UL and has currently upgraded to ISO 9001:2015. The organisation has also adopted the SAP B1 as a part of enterprise resource management and fact-based decision making.

Contact:

Electronic Automation Pvt Ltd, Bangalore
Tel: +91 80 4280 2345
Email: info@eaplindiamail.com



WIRING HARNESS

Miracle Electronic Devices Pvt Ltd offers a wide range of wiring harness.

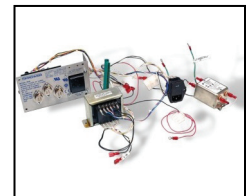
Features:

- Miracle excels in wire harness manufacturing, offering high-performance electrical connectivity solutions for industries where precision and durability are paramount. A well-designed wire harness is crucial for seamless electrical integration, especially in applications such as medical devices, aerospace systems, industrial automation, and automotive technology.
- From intricate harnesses used in diagnostic imaging equipment to rugged solutions for defense machinery, Miracle's wire harnesses are built to withstand demanding operational environments.
- With a deep understanding of industry-specific requirements, Miracle delivers tailor-made wiring solutions that enhance efficiency, reduce installation time, and improve overall system performance.

About the Company: Miracle Electronic Devices supplies high-quality transformers and wire harnesses across India and global markets, such as the US, Canada, Germany, and Europe.

Contact:

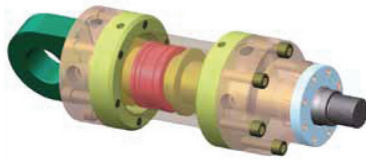
Miracle Electronic Devices Pvt Ltd, Bangalore
Tel: +91 80 2836 2750; Email: sales@miracle.net.in



Oscar Equipments: A Prominent Player in Hydraulic Cylinder Market

Oscar Equipments, an ISO 9001:2015 certified company and a proven name in precision built hydraulic cylinders, is the brainchild of V.P. Jain to establish manufacturing facilities about 20 km away from Kolkata city. The company incorporates latest technological features that offer solutions for increasingly critical requirements based on customised and strategic applications of fluid power.

The key to Oscar Equipments capabilities is the ability to combine the state-of-the-art along with most effective solutions. This expertise is derived from more than four decades of experience available with the Oscar team in design and development of various hydraulic products and allied applications. Quality is the hallmark of Oscar and quality assurance is the top most priority. With the aid of modern equipment the company maintains rigid quality control system at every stage of production.

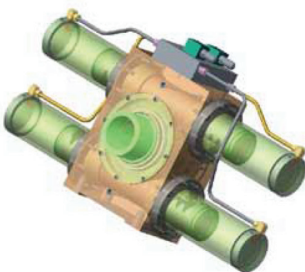


Customised multi-stage hydraulic cylinders for steel mill applications and other heavy industries

turning centres, customised multi stage hydraulic cylinders for steel mill applications and other heavy industries grinding machines, special type welding machines, high pressure and low pressure testing facilities along with complete engineering, research and development facilities and well experienced team for after-sales service.

R&D is always given overriding priority, a concept so strong that it led to executing several contracts for the defence R&D establishments. A few examples include:

- ❑ Sarvatra Bridging System – Fabrication and supply of 3-stage pier leg assemblies including fabrication of base plate in RDE 40 aluminium alloy with synergy pulse MIG welding process for bridging system – Project Sarvatra
- ❑ Hydraulic System Bridge Layer Tank on T-72 Chassis
- ❑ Manufacturing of



Hydraulic rotary actuators for high torque applications

Oscar is equipped with complete manufacturing facilities including 'dust-free' assembly shop apart from automatic honing machines, CNC

Pilotless Target Aircraft (PTA) launcher including complete hydraulic system and controls – Project Lakshya

- ❑ Manufacturing of Jet Deflector Carrier Equipment and installation of the same on Tatra chassis along with 30 MT crane along with complete hydraulic system
- ❑ Pick & Place PLC Type Manipulator – for shell forging unit for ministry of defence unit
- ❑ Electro-Mechanical Actuators for Multi-Barrel Rocket Launcher – Project Pinaka/Aakash/Prahar
- ❑ Recoil Mechanism of ATAGS – 155mm x 52 calibre gun developed by DRDO Unit
- ❑ Critical Hydraulic Aggregates of Towed Gun System under production

Original equipment manufacturers and their customers are demanding more efficient, lighter, smaller, safer, and smarter systems across the entire product line in the realm of automotive, agricultural, construction, and earth moving equipment industries.

Oscar is an ideal partner for catering to various requirements of hydraulic/pneumatic cylinders and hydraulic operated equipment for any application, any type and any standard. The product range includes: single stage/multi stage hydraulic cylinders, tie rod type standard/customised hydraulic cylinders, hydraulic rotary actuators, electro-mechanical actuators and hydraulic power packs.



Electro-mechanical actuators for heavy industrial applications



Hydraulic power packs



Ladle lifting & tilting hydraulic cylinder having bore dia 500 mm with ceramic coated plunger for continuous casting shop



Double acting hydraulic cylinders fitted with heat resistant bellow for walking beam furnace application



Manufacturing of Pilotless Target Aircraft (PTA) launcher including complete hydraulic system and controls – Project Lakshya

Oscar also undertakes indigenisation of imported customised special cylinders and products for steel mill applications. A few examples:

- ❑ For steel plants and heavy industrial applications – automatic gauge control (AGC) hydraulic capsule cylinders capsule cylinders having bore dia 1016 mm (40 inches) for plate mill application
- ❑ Automatic gauge control (AGC) hydraulic capsule cylinders capsule cylinders having bore dia 700 mm (28 inches) for cold rolling mill application
- ❑ Ladle lifting and tilting hydraulic cylinder having bore dia 500 mm bore with ceramic coated plunger for continuous casting shop
- ❑ Ladle lifting and tilting hydraulic cylinder having bore dia 600 mm bore for continuous casting shop
- ❑ Hydraulic cylinders for ladle lifting stand for continuous



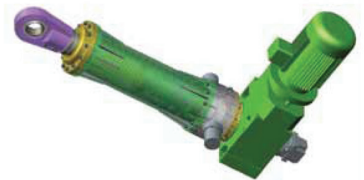
Double acting long stroke cylinder



Manufacturing of Jet Deflector Carrier Equipment and installation of the same on Tatra Chassis along with 30 MT crane along with complete hydraulic system

casting shop having bore dia up to 450 mm

- ❑ Development of special cylinders and products for steel plants and heavy industrial applications
- ❑ Lift and turn hydraulic cylinders for continuous casting shops having roll force cylinders for screw down mechanism of cold rolling mill having bore dia up to 480 mm
- ❑ Roll force cylinder with transducer for rolling mill application
- ❑ Telescoping hoist hydraulic cylinder having bore dia 480/420/360 mm with total stroke length 8100 mm for steel melting shop application
- ❑ Work roll balancing cylinder (top and bottom) for hot strip mill application
- ❑ Development of special cylinders and products for steel plants and heavy industrial applications, and
- ❑ Mud gun hydraulic cylinders for blast furnace applications.



Electro-mechanical actuators for multi-barrel rocket launcher (Project Pinaka), surface-to-air missile launcher (Project Aakash), and cruise missile launcher (Project Prahar)

For details, contact Oscar Equipments, West Bengal, on email: marketing@oscarequipments.com

(Communication provided by the management of the company)



From Sustainability to Smart Tech

bauma 2025 will have a heavy emphasis on sustainability and digitalisation, which are becoming major priorities for mining, construction and other related industries.

The countdown has officially begun for bauma 2025, the world's premier trade fair for construction machinery, building material machines, mining equipment, and vehicles. Held in Munich from April 7 to 13, this highly anticipated event will bring together over 3,500 exhibitors from 57 countries, showcasing the latest innovations and technological breakthroughs in the construction industry. Spread across a massive 614,000 sq m of exhibition space—equivalent to 86 soccer fields—the fair promises to be a hub of cutting-edge developments that will shape the future of the global construction landscape.

Exhibitor demand for space at bauma 2025 remains exceptionally high, and the event is once again fully booked. Notably, there has been a significant rise in international participation, especially

from Asian markets. Countries like India, Japan, China, Taiwan, and Korea are increasing their presence, highlighting the growing importance of these regions in the global construction equipment industry. India's involvement, in particular, reflects the nation's rapidly expanding construction sector, which continues to be one of the largest drivers of economic growth in the region.

Europe remains a key player as well, with Italy being the second-largest exhibitor group following Germany, and Turkey ranking fourth. There has also been an increase in exhibitors from Switzerland, Belgium, the Netherlands, and Portugal, further underscoring the international appeal of Bauma. Additionally, companies from Argentina and the Philippines will participate for the first time, adding fresh perspectives and innovations to the mix.

An event of global significance

Stefan Rummel, CEO, Messe München GmbH, has emphasised the global scale of the event. "Bauma 2025 will feature more than 3,600 exhibitors from over 60 countries, and we expect attendees from more than 200 countries to visit," Rummel said. The fairgrounds will span 640,000 square meters, offering an expansive platform for showcasing the future of construction technology. Compared to the October 2022 event, when lingering concerns over the COVID-19 pandemic limited attendance, bauma 2025 is set to attract a larger and more diverse crowd.



"The enduring demand for exhibition space and the vast number of international participants clearly demonstrate Bauma's unparalleled importance in the industry," Rummel added. "As the heartbeat of the construction equipment sector, Bauma will continue to inspire and influence the industry, especially in these challenging times."

Key themes: Sustainability and digitalisation

As the construction industry faces significant challenges, two overarching themes will dominate discussions at Bauma 2025: sustainability and digitalisation. These megatrends are reshaping industries worldwide, and the construction sector is no exception. With Europe setting ambitious climate goals—such as achieving climate neutrality by 2050—the focus on sustainable practices is intensifying. Rummel noted that industries like construction, which

construction more energy-efficient, resource-conscious, and environmentally friendly. In addition, automation and digital transformation are expected to play a major role in revolutionising the way construction operations are carried out. The use of digital tools, such as managing equipment operations via tablets instead of traditional cab systems, is already gaining traction. Though widespread automation is still in its infancy, it is expected to reshape the workforce by creating new job opportunities that leverage human skills in more strategic and valuable ways.

Innovation and the next generation

Beyond sustainability and digitalisation, bauma 2025 will also explore the rise of electric vehicles (EVs) in the construction sector. The industry is increasingly embracing electric construction machinery to reduce emissions and fuel costs while enhancing performance. There will also be a strong emphasis on innovation through research, highlighting how new technologies can improve productivity and reduce the environmental impact of construction activities.

Another major focus will be attracting younger workers into the construction industry. Through initiatives like the Think Big programme, bauma aims to inspire the next generation of construction professionals and provide them with the skills they need to thrive in an increasingly digital and automated industry.

Impact on India and global markets

For India, bauma 2025 will have a significant impact, both in terms of showcasing the latest construction technologies and strengthening international collaborations. The Indian construction market is expected to continue its rapid growth, driven by infrastructure development projects and urbanisation. The innovations presented at bauma will help Indian companies enhance their capabilities, improve sustainability, and adopt more efficient and safer construction practices.

Globally, bauma 2025 will act as a catalyst for transforming the construction industry, as companies explore new ways to integrate sustainability and digital technologies into their operations. The event will provide valuable insights and opportunities for both established and emerging markets, solidifying bauma's position as the most important trade fair in the sector.

bauma 2025 promises to be a landmark event, shaping the future of the construction industry both in India and around the world. With a strong emphasis on innovation, sustainability, and digitalisation, the fair will drive the industry toward a more efficient, eco-friendly, and tech-driven future. The road ahead is exciting, and bauma 2025 will undoubtedly play a pivotal role in charting that course.



Sustainability will be a key area of focus at the event.

are energy-intensive and historically not the most eco-friendly, must adopt new strategies to minimise their environmental footprint.

Sustainability will be a key area of focus at the event, with exhibitors presenting innovative solutions to make



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“India has been an essential market for many years.”

Nicole Schmitt, Exhibition Director, **bauma 2025**, provides an insight into the expected number of exhibitors and visitors at the exhibition.

bauma is the largest and most significant event for the construction industry worldwide. What can visitors expect at the 34th edition of the fair in 2025?

bauma 2025 will once again bring together global industry leaders, cutting-edge technologies, and forward-thinking innovations. This edition focuses strongly on sustainability and digitalisation. Visitors can explore the innovation hall LAB0, where future topics take center stage, discover alternative drive concepts in Halls A3 and A4, and experience the ‘Mining Inside’ segment. Additionally, the outdoor exhibition will highlight climate-neutral solutions, offering a glimpse into the future of construction and mining.



Nicole Schmitt, Exhibition Director, **bauma 2025**

Additionally, our international expansion through bauma events in China, India, and Brazil strengthens our global reach. These platforms increase awareness of bauma Munich and attract a highly diverse audience, reinforcing bauma’s position as the leading trade fair in the sector.

India has a strong presence in the construction and mining sectors. How is bauma 2025 specifically encouraging more Indian companies to participate or showcase their innovations?

India has been an essential market for many years, and the growth of bauma CONEXPO India has significantly increased awareness of the bauma brand. More and more Indian companies recognise bauma

Munich as a crucial platform for entering international markets. Through partnerships with trade associations and targeted outreach, we encourage Indian businesses to showcase their latest innovations, expand their global footprint, and connect with key players in the industry.

Can you provide insights into the expected number of exhibitors and visitors at bauma 2025, and which regions are showing the most interest in participating?

We expect more than 3,500 exhibitors from 57 countries to showcase their latest machinery and technologies in 614,000 sq m of exhibition space. Attendance is expected to reach approximately 5,50,000 visitors from around the world. Investment in modern infrastructure projects is currently increasing, particularly in regions such as the Middle East, India, and Africa. We therefore expect growing interest from these regions in particular, as well as from Latin America, notably Argentina, Chile, Colombia, and Peru, due to the strong mining industry there.

bauma consistently attracts industry leaders from all over the world. What strategies does Messe Muenchen employ to ensure such strong international participation and engagement?

bauma has been around since the 1950s, so it has a very long tradition and has become the undisputed heartbeat of the industry over the years. Since its first edition, bauma’s long-standing success is built on continuous innovation and close industry collaboration. By consistently addressing key industry trends and challenges, we ensure the event remains relevant.

Are there any special programmes, forums, or collaborations planned for Indian companies at bauma 2025, especially to highlight their role in global construction trends and sustainable building solutions?

There are no country-specific programmes at bauma in Munich. However, exhibitors can showcase their products and solutions on the Exhibitor Stage—though all slots are already fully booked.

Additionally, our partner, the VDMA, is organising an India Day at bauma in cooperation with the Indian construction machinery association ICEMA and Messe München on Wednesday, 9 April, from 3:00 to 5:30 pm. The event will take place at the VDMA meeting rooms at Press Centre East.

In addition to focusing on the prospects of the Indian construction machinery market, this time the main aim is to highlight business prospects for European suppliers through localisation in India. For this reason, representatives of supplier companies are particularly



invited to attend the event. The reception in the VDMA Lounge after the event will offer an opportunity for individual discussions with high-level representatives of Indian construction equipment OEMs.

With sustainability being one of the core themes for bauma 2025, how are you integrating climate neutrality and sustainable practices into the event itself?

Sustainability is in Messe München's DNA. Our photovoltaic systems on the hall roofs generate around 2.6 million kWh of green electricity per year, saving around 1,460 tons of CO₂ per year over the past 24 years. Since 2009, we have reduced our CO₂ emissions by 75 percent. By 2020, we will be using 100 percent green electricity, and for the past 20 years, a significant portion of our heating needs have been met by environmentally friendly district heating. We also encourage exhibitors and visitors to travel to bauma by public transport, which is included in the ticket price this year. For those arriving by electric car, numerous charging stations are available in our parking garages.

What specific innovations can we expect to see at bauma 2025?

There will be many innovations in all of our key topics. What we have heard from our exhibitors in advance is that there will be a lot of developments, especially in the area of climate neutrality and in the area of alternative drives. The focus here is primarily on CO₂ reduction. There are even exhibitors who are showing only electrically powered machines. A few years ago, such developments seemed distant, but today they are becoming a reality. Visitors can expect groundbreaking advancements that will redefine efficiency, emissions reduction, and the future of construction equipment.

Networked construction is one of the major themes for bauma 2025. How is this changing the way the construction industry operates and

what role will digitalisation play in this shift?

Digitalisation is a key driver across industries, and construction is no exception. Networked construction integrates digital tools with traditional methods, enabling clearer communication, real-time collaboration, and improved project planning. Digitalisation plays a critical role in leveraging advanced software, IoT devices, and data analytics to increase efficiency, optimise resource utilisation, and improve safety standards. At bauma 2025, several exhibitors will demonstrate remote-controlled construction machinery using advanced technologies. Most setups enable operators and visitors to control machines from a booth in Munich via high-speed 5G networks, real-time video streaming, and precise sensor systems. Caterpillar i.e. will showcase the remote operation of a machine in a quarry, while Kobelco's K-DIVE system will allow users to control excavators in Denmark and Japan. Hyundai will present the remote operation of a construction machine in Belgium, and Sennebogen will enable visitors to steer a crane in Straubing. Liebherr takes a different approach by letting operators in Austria control a bulldozer on-site in Munich.

How do you envision bauma evolving in the coming years, especially with growing trends toward digitalisation, automation, and sustainability in the construction sector?

bauma will continue to be the industry's key innovation platform, evolving alongside technological advancements. Digitalisation, automation, and sustainability will play an even greater role in shaping the event. As companies push the boundaries of efficiency and environmental responsibility, bauma will remain at the forefront—offering insights, networking opportunities, and a space to present the solutions that will drive the future of construction and mining.



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“The export market plays a pivotal role in our growth strategy.”

Ajay Malik, Head – International Business, Action Construction Equipment (ACE), speaks on the new products that the company is showcasing at bauma 2025.

What new products or innovations are you showcasing at Bauma Germany, and how do they cater to both the Indian and international markets?

At Bauma Germany, we’re excited to unveil a series of groundbreaking products that demonstrate ACE’s commitment to innovation and sustainability. Our main highlight is the backhoe loaders—available in both equal wheel and different wheel configurations—which not only meets the stringent Bharat Stage V emission standards but also sets a new benchmark in fuel efficiency and eco-friendliness. These products reflect our dedication to sustainable solutions and are tailored for both Indian and international markets.

We are also showcasing advanced heavy-lifting equipment, such as the 3.5-tonne telehandler and the state-of-the-art NX360 ACE pick-and-carry crane. These machines are engineered to tackle complex projects, making them ideal for global infrastructure and agricultural needs. Each product is designed with a strong emphasis on reliability, precision, and adaptability, ensuring they meet the diverse requirements of customers across the globe.

How has the demand for your products evolved in the Indian market, and what trends do you see shaping the construction machinery sector in India?

Over the years, we’ve witnessed a steady and robust increase in demand for our construction machinery in India. This growth has been driven by transformative government initiatives aimed at modernising the country’s infrastructure. Additionally, the rapid pace of urbanisation and the surge in real estate development have created significant opportunities for construction equipment manufacturers like us.

Looking ahead, the industry is being shaped by several exciting trends—most notably, the integration of advanced technologies into construction machinery. AI- and IoT-enabled equipment are becoming increasingly common, enabling predictive maintenance,



Ajay Malik, Head – International Business, ACE

enhancing operational efficiency, and minimising downtime. By staying ahead of these developments and focusing on customer-centric innovation, we are not only meeting current market demands but also positioning ourselves for the future of the industry. Furthermore, with the growing emphasis on green infrastructure and sustainability, there is a clear shift towards eco-friendly and energy-efficient equipment—a direction that Action Construction Equipment fully supports through our innovative product designs.

What role does the export market play in your strategy, and how are you positioning your products to meet the needs of international markets, particularly Europe?

The export market plays a pivotal role in our growth strategy, with our products currently reaching over 44 countries—and counting. We see immense opportunity in global markets and are actively working to deepen our presence across new regions. Europe remains a key focus given its stringent environmental and safety regulations, which align well with our philosophy of innovation and sustainability. Our equipment is designed to meet international benchmarks, including EURO 5 emission norms, ensuring full compliance with local standards. We continue to invest in R&D to create products tailored to European requirements while building robust service networks to provide seamless after-sales support. This combination of high-quality engineering and customer-centric service is what makes our products reliable and globally competitive.

What challenges have you faced in expanding into global markets, and how are you addressing issues like competition, regulations, and logistics?

Expanding into global markets comes with a host of challenges. Navigating different and often complex international regulations—and ensuring compliance with diverse standards across various regions—can be demanding. The global construction machinery sector

is also highly competitive, with stiff competition from both local players and well-established international brands. This requires us to consistently deliver on quality, efficiency, and cost-effectiveness. Logistics is another critical factor, as ensuring smooth and timely delivery across countries is essential for customer satisfaction. To address these challenges, we are investing heavily in our R&D capabilities to accelerate innovation and develop cutting-edge products that help establish ACE as a strong player in competitive global markets. We are also forming strategic partnerships with local distributors and service providers to ensure the availability of spare parts and robust after-sales support.

Looking ahead, what are your key growth plans for the next three to five years, especially in terms of international expansion and product innovation?

Our vision for the next three to five years is to significantly expand our global footprint by entering new markets and strengthening our presence in regions where our products are already trusted. Our expansion strategy is centered on tapping into high-potential markets across Africa, Southeast Asia, and South America, while deepening our reach in Europe and the Middle East. Product innovation will be a core pillar of our strategy, as we aim to introduce advanced, industry-relevant equipment tailored to the evolving needs of

global customers. We will continue to focus on building strong partnerships, fostering a culture of innovation, and delivering reliable, future-ready solutions that empower our customers and drive long-term success.

How are you incorporating sustainability and eco-friendly solutions into your product offerings, and how important is this in shaping the future of the industry?

Sustainability is at the core of our innovation strategy. Our products, such as the BS-V Backhoe Loader and Telehandler, are designed to reduce emissions and improve fuel efficiency. We are also exploring renewable energy solutions and incorporating eco-friendly materials into our manufacturing processes. As the industry moves towards greener practices, we are focused on leading this transformation.

Beyond our products, we've made significant strides in our manufacturing processes, incorporating renewable energy solutions and adopting environmentally friendly materials. We believe that sustainable practices are not only essential for the planet but also for the long-term success of the industry. As we move forward, we're committed to leading this shift toward greener, more responsible construction solutions.



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SANY to Exhibit 35 Machines

SANY will present itself at bauma 2025 with an impressive 3,000 sq m exhibition stand (FN.619, Outdoor Area North) and more than 35 machines, including several new product launches. From powerful excavators, wheel loaders, and telehandlers to forklifts, cranes, concrete pumps, and the latest road construction machines, SANY is showcasing its full range of equipment.

Under the theme "SANY – THE WORLD OF EFFICIENCY – Your partner to create the best," SANY will demonstrate how innovative technology, efficiency, and sustainability are shaping the future of the construction industry. SANY is not only focused on innovation but also on building strong strategic partnerships—an essential advantage for customers and dealers across Europe and worldwide.

Also featuring a swing boom, the SANY SY215C NLC 2PB is a tracked excavator with an operating



weight of approximately 22 tonne. The SY215E is a groundbreaking alternative in the 23-tonne class. This fully electric crawler excavator, equipped with a 150 kW electric motor and a 422-kWh lithium iron phosphate battery, provides a zero-emission, low-noise solution for sustainability-focused customers.

For deep excavation, pipeline construction, and demolition companies, SANY presents the right machines for every construction site. The SY155U 2PB (with two-piece boom) combines exceptional manoeuvrability with powerful performance. Featuring a swing boom

and dual auxiliary hydraulic circuits, it is perfect for high-performance attachments like log harvesters or mulchers. A redesigned 7-inch touchscreen ensures intuitive operation, while an elevated dozer blade improves grading efficiency, making it a machine that combines productivity and comfort.

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“We continue to invest in innovation.”

V Senthilkumar, Managing Director, Propel Industries, speaks on the company's strategy in the export market.

What new products or innovations are you showcasing at bauma?

We are excited to showcase latest track-mounted machines, available in both electric and dual-power configurations. These innovations are designed to enhance fuel efficiency and reduce operational costs while maintaining high performance.

Products showcased in bauma are jaw crusher (manufactured in Ireland) and track-mounted cone crusher. Our machines are CE-certified, ensuring compliance with European safety and quality standards. These certifications, combined with our focus on innovation and efficiency, make our products well-suited for European, the US, Australia, South Africa, and other India-like markets. We continue to push boundaries in sustainable and high-performance crushing solutions, catering to the evolving demands of the global industry.

How has the demand for your products evolved in the Indian market?

Propel is India's leading manufacturer of crushing, screening, and washing solutions, reflecting the increasing demand for our products. Our company has been experiencing an impressive compound annual growth rate (CAGR) of 40 per cent, demonstrating strong acceptance in the crushing and aggregates sector. The construction and infrastructure industries are witnessing a significant shift towards electrification, with an increasing adoption of electric-powered machinery to enhance efficiency and sustainability. This transition aligns with the growing demand for high-capacity crushers capable of meeting the production requirements of large-scale projects.

At the same time, sustainability initiatives are driving the industry towards eco-friendly solutions, minimising carbon footprints, and promoting environmentally responsible operations. As infrastructure projects continue to expand in India, Propel remains committed to delivering high-performance, cost-effective, and sustainable solutions that align with industry needs.

What role does the export market play in your strategy?

Propel is committed to delivering bespoke solutions tailored to the unique needs of international customers,



V Senthilkumar, Managing Director,
Propel Industries

leveraging the expertise of experienced engineers and global partners. With aggressive investments in Europe and the US, the company is strengthening its presence as a leading crusher manufacturer in these key markets. Additionally, we focus on localised support to ensure quick access to technical assistance and spare parts, enhancing customer satisfaction. We continue to invest in innovation, and strategic partnerships to expand its global footprint.

What are your key growth plans for the next 3-5 years?

Propel has ambitious growth plans for the coming years, aiming to become a \$750 million company by 2029 with a CAGR of 40 per cent. International markets will contribute 30 per cent of our total revenue within

the next three to five years. Key growth initiatives include future-ready product launches, introducing next-generation machinery and electric dumper trucks for the mining industry (to be launched within 18 months).

Developing sustainable and eco-friendly crushing and screening equipment to align with global sustainability goals. With a clear focus on technological advancements and global outreach, we are set to reshape the crushing and construction equipment industry.

How are you incorporating sustainability and eco-friendly solutions into your products?

Sustainability and eco-friendly innovations are shaping the future of the industry, and Propel has taken the lead by introducing its electric dump trucks in India well ahead of the competition. Our electric dumper trucks are a major step towards reducing carbon emissions and energy consumption in the transportation sector, particularly in industries like construction and mining. Powered by advanced electric propulsion technology, our trucks offer a cleaner, more environmentally responsible alternative to conventional diesel-powered vehicles. Equipped with high-efficiency electric motors and energy recovery systems, they optimise energy utilisation while maintaining performance.



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XCMG's New Energy Series

XCMG Machinery is set to exhibit a lineup of over 40 construction equipment products and launch a new energy product series at bauma 2025. Themed Solid Innovation for Green Tomorrow, XCMG's grand product lineup includes top models from six major categories of hoisting, excavating, loading and road machineries, aerial work platforms, as well as non-excavating machinery. XCMG will be at booth FS.1005/4 at Messe München.

Aspired to become a leading enterprise in low carbon and emission reduction, XCMG is actively carrying out a sustainability roadmap and unswervingly takes the green development path of green innovation, green manufacturing, and green products. Centering on Powered by Green Innovation, XCMG's exhibition at bauma 2025 will debut a green, new energy product series while focusing on integrating the new energy development, financial system and aftermarket development.

In light of the future challenges, XCMG is promoting the digital transformation from traditional, single-point and localised informatisation to global, full-value-chain and full-business-domain digitalisation, improving overseas lean operation capability, and comprehensively enhancing localised service capability,



especially the aftermarket services.

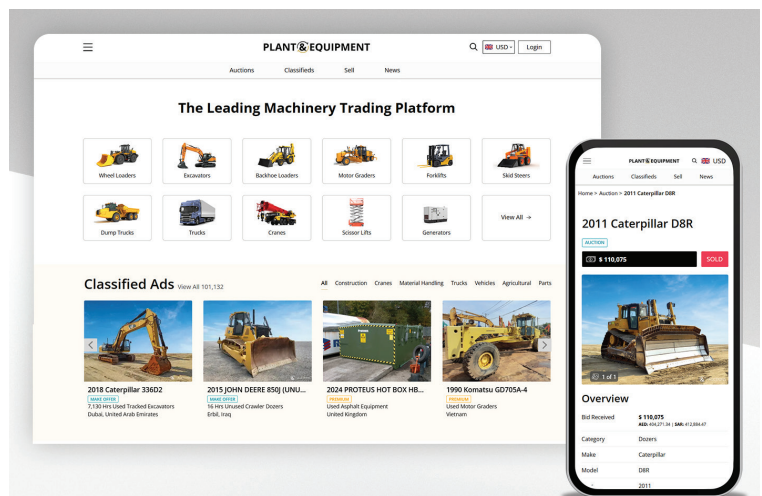
Since 1992, XCMG has continuously expanded the scale of its exhibition at bauma, contributing the solutions, intelligent innovations and power of XCMG to the global construction machinery industry. Now recognised in over 190 countries and regions, XCMG is making strides in the international market and supporting global infrastructure construction: it's joining hands with Rio Tinto in developing the Simandou iron ore project, the world's largest untapped reserve of high-grade iron ore; the group has set up a West Asia and North Africa value-added service centre in UAE.

Plant & Equipment's Cutting-Edge Platform

Plant & Equipment, the leading marketplace for heavy machinery and trucks, is set to participate in bauma Munich 2025. As a key player in the heavy construction machinery sector, Plant & Equipment will leverage this global event to present its cutting-edge online marketplace, PlantAndEquipment.com. The platform connects buyers and sellers worldwide, providing essential tools for equipment transactions, online auctions, and industry insights.

Visitors to the Plant & Equipment booth will have the opportunity to explore its diverse offerings, including online auctions, classified listings, and real-time equipment news. With a focus on earthmoving and mining machinery, Plant & Equipment's platforms provide solutions for companies seeking advanced machinery and industry intelligence. Attendees will also gain insights into the continued growth of Plant & Equipment's auction marketplace, which is revolutionising the way heavy machinery is bought and sold online.

Based in Dubai, Plant & Equipment remains a globally recognised marketplace and resource for heavy



machinery and trucks, serving professionals in the Middle East, Africa, and beyond. Through its dynamic marketplace and auctions, Plant & Equipment continues to provide seamless, innovative solutions to meet the evolving needs of the construction and heavy equipment industries.

Zoomlion's Green Intelligent Equipment

Zoomlion Heavy Industry Science & Technology, a global leader in construction machinery, is bringing 67 premium construction machinery equipment to the bauma 2025 trade fair.

Zoomlion will be at booth FS.905 at the Messe München to showcase its latest breakthroughs in green, intelligent, localised products and technologies as well as global development.

Themed "Greener Development, Brighter Future," Zoomlion's exhibition will cover an area of 3,840 sq m and showcase a comprehensive product lineup of concrete machinery, mobile cranes, tower cranes, earthmoving machinery, aerial work platforms and industrial vehicles.

Zoomlion's aerial work exhibition will showcase a range of advanced equipment, highlighting the ZT72J-V, the tallest straight-boom aerial work platform in Europe, which features intelligent obstacle avoidance and multifunctional accessories.

The earthmoving machinery section will showcase the latest ZE20G and ZE27GU excavators designed to operate in narrow spaces. The ZE20G has the largest market share in Europe while the ZE27GU features an all-new driver's cab. Visitors will have the opportunity to interact with the micro excavators through fun games



like stacking wine glasses and bowling.

The tower crane exhibition will highlight Zoomlion's intelligent and unmanned construction capabilities, including demonstration of 5G remote operation. Zoomlion is also introducing the large tonnage R-series designed for the European market with CE Certification. The concrete machinery section will feature the world's first carbon fiber tube and intelligent management system as well as an array of smart components, demonstrating the intelligent construction solutions with a sand table model while also engaging the visitors to experience active obstacle avoidance and alert systems through smart bracelets, signal box, iPad and more.

Develon to Showcase New Innovations

The Develon stand will reflect the key aspects of this year's Bauma and those of the global construction industry, from digitalisation and sustainability; automation and alternative drive concepts to networked construction, reduced carbon footprint and the circular economy. Develon will display its vision for autonomous machinery which has been an ongoing development stream at the company for years, starting with the Concept-X technology first seen globally in 2019.

This progressed to Develon's Concept-X2, the remote control/autonomous cabless construction equipment solution first seen at Conexpo in 2023 and promoted globally by the company for the last two years.

At Bauma, visitors will see 'Real X', the next level in autonomous working from the company. Real X allows the latest smart Develon crawler excavators to carry out a full suite of autonomous tasks including trenching, bulk earthwork and truck-loading.

Real X utilises Develon's expertise in AI-powered excavation and construction equipment technology to accelerate the development of safe, productive,



sustainable and predictive autonomous excavation solutions. Real X technology is also flexible and allows the same excavator to be operated in autonomous mode, remote control mode or in normal joystick operation mode.

Caterpillar's Advancements in Tech

Caterpillar stand will be displayed on a redesigned stand is thoughtfully crafted to help you make the most of your visit, offering a dynamic space to explore the full spectrum of Cat equipment, attachments, and innovative solutions. With the OEM celebrating its 100th anniversary this year, the theme of the show will be, "The Next 100 Years," with Caterpillar saying it will be highlighting its commitment to innovation and sustainability.

Caterpillar exhibit will feature 48 machines, including 17 new introductions or upgrades. These include enhancements to the battery electric line-up, expansions to the Next Generation line-up, and additions to the demolition, waste handling, and recycling portfolios.

On display will be three recently introduced Next Generation Compact Track Loaders, offering upgrades in engine power and torque, lift and tilt breakout forces, stability, operator comfort and technology.

The new D8 dozer will be featured, based on the Next Generation platform. It includes a new high-end operator station that is common with the D5-D7 platforms and comes with a 15-degree angled seat for enhanced comfort. Additionally, it introduces a full suite of Assist features and is Cat Grade 3D ready ex-factory,



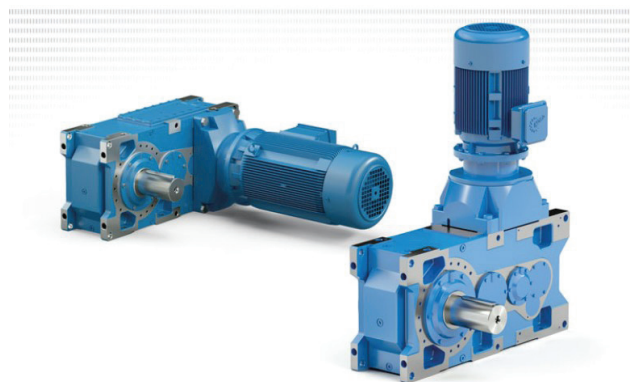
with the option to upgrade to Cat Command Remote Control. Making its first appearance at Bauma is the 140 AWD Next Generation Motor Grader. Still in prototype stage, this 20-tonne operating weight prototype machine consolidates two existing platforms into a common next generation platform for motor graders, providing customers more choices of features, technologies and configurations.

NORD DRIVESYSTEMS' Advanced Drive Solutions

NORD DRIVESYSTEMS will be exhibiting its innovative drive systems for industrial applications. Features include the NORDAC PRO SK 500P frequency inverter, which can adapt to a wide range of applications, and the company's MAXXDRIVE inter industrial gear units.

High-performance gear units

- **MAXXDRIVE XJ and XD:** The industrial gear units MAXXDRIVE XJ and XD are long-life with optimum crane application performance and when it has to do with the lifting gear, the XD performs rather well due to its extended gear stage design.
- **MAXXDRIVE XT:** Because of their high thermal limit powers and low ratios, the MAXXDRIVE XT industrial gear units are the best suited for bulk material plants. They are meant for conveyor belt systems and ensure high operational reliability with low maintenance time. Large roller bearings and optimised center distances help improve load capacity and life cycle of gear units, therefore further enhancing availability of the system.



The NORDAC PRO SK 500P control cabinet inverter is book-sized, highly adaptable, and easy to integrate. Its book-size format requires little space in the control cabinet. NORD's modular products offer industrial drive solutions for almost every branch of industry, including geared motors, industrial gear units, and frequency inverters.

With offices in over 80 countries worldwide, NORD delivers these solutions from a single source, ensuring smooth cooperation and short delivery times.

Wirtgen to Present 45 Innovations

The focus of the joint presence of the Wirtgen Group and John Deere at bauma is to help customers become more efficient and profitable through smarter and safer construction equipment, innovative technology solutions and application processes. The highlights of the 13,000-m² booth at the show are eight production systems for a variety of applications in the areas of road construction, earthmoving and materials processing.

The company will showcase a range of concrete solutions it has developed to support and assist the industry in overcoming the challenges of the skilled labour shortage, stringent quality requirements etc.

Smart, safe and sustainable solutions are in greater demand than ever before. In view of this, the company is presenting state-of-the-art machines, technologies, and digital solutions for its customers' Production Systems in the three industry segments.

The Technology Zone will feature the John Deere Operations Center™ for construction, the centralised platform for digital solutions for the management of jobsites. In addition, the visitors get the first chance to see the Wirtgen Group Performance Tracker (WPT) Paving, WPT Compacting, WPT Recycling and WPT Crushing. Production systems include not only the right procedures and digital systems for an application but also the ideal combination of machines. On a walk along the Technology Zone, visitors will see exhibits including machine-trains for paving with reduced-



temperature asphalt, soil stabilisation and materials processing. The main focus will be the 'Production System for a Construction Site with Zero Local Emissions,' which has been nominated for the 2025 bauma Innovation Award in the category 'Climate Protection'. Thanks to the battery-powered cold milling machine, road paver and roller, road construction contractors now have access to an end-to-end production system that enables the realisation of road construction projects with zero operating emissions. This also applies to the digitalisation and automation solution 'Smart Automation in Roadbuilding', which is one of the top three contenders for the bauma Innovation Award in the 'Digitalisation' category. During asphalt removal and paving, this innovation enables automated realisation of predictable results with high quality and fewer resources in terms of material and specialised personnel.

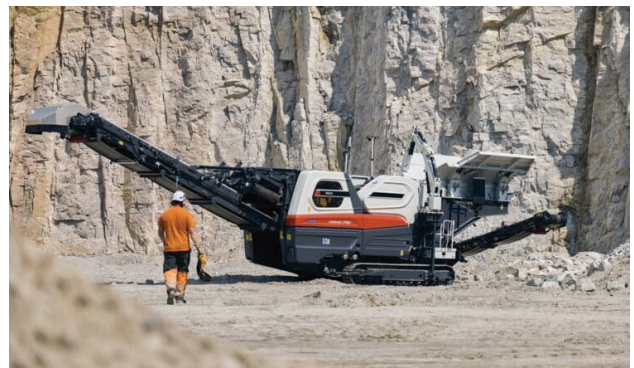
Metso's Latest Aggregates Technology

Metso will exhibit its latest innovations and technologies for the aggregates industry. Renaud Lapointe, President, Market Area Europe and Central Asia at Metso, said: "After a hiatus in 2022, we are pleased to return to Bauma 2025.

"This event provides an opportunity to present our latest developments and engage with customers and partners."

Metso's participation coincides with the 40th anniversary of its Lokotrack® mobile crushers, which will be a key focus at the event. The company will also introduce the latest Nordberg HPe crushers, designed to improve performance in demanding conditions, as well as updates to its Lokotrack® and Nordtrack™ mobile crushing and screening equipment. This includes the new EC range models and a "Build Your Own" tool that allows users to customise Lokotrack EC jaw or cone crushers.

Another feature will be the Metso HRC™ 8 Crusher, developed to convert demolition waste into materials



such as manufactured sand. The company will also present its latest screening technology, designed for precise material separation and easier maintenance.

Metso's aftermarket support offering will be on display, including new wear parts aimed at extending service life. The company will also highlight its digital solutions, which use intelligent instruments and software to improve efficiency and reduce costs.

Komatsu to Present New Midi Excavator

Komatsu, a global manufacturer of construction and mining equipment, will showcase a new prototype 7.5-tonne wheeled excavator at Bauma 2025. The machine will join the PW98MR and PW138MR wheeled excavator family. Komatsu states that the machine is versatile enough to be used in a wide range of utility and landscaping applications. It is suitable for heavy-duty lifting tasks, as well as simple excavation jobs in narrow alleys, road construction sites, and sewer construction projects.

The swing boom design allows for digging alongside buildings or barriers, while the two-piece boom provides flexibility with an extended working range. The new 7.5-ton wheeled excavator offers a variety of features that benefit operators. It is equipped with a 49 kW Stage V compliant engine that does not require Diesel Exhaust Fluid refills.

Additionally, it has improved maneuverability in tight spaces, with an overall maximum width of 2080 mm, a short tail radius, and standard four-wheel steering, which enables the smallest turning radius in its product category.

"This new tight-tail excavator fills the gap below the mid-sized wheeled excavators, granting easy and



precise operability with any attachments and the best driving experience on the roads, packed in a super compact machine perfectly sized to work in an urban environment," says Alex Visentin, product manager for the new wheeled excavator.

LiuGong Leads the Change in Sustainable Solutions

LiuGong aims to demonstrate its leadership in sustainable solutions at Bauma 2025 by challenging industry perceptions around Battery Electric Vehicles (BEV) and advanced technology adoption. With an expanded BEV portfolio and the debut of its new T-Series Wheel Loaders, LiuGong will highlight its commitment to innovation and application-focused solutions for the mining and demolition sectors. This bold showcase reinforces LiuGong's position as a pioneer in electrification and sustainable construction equipment.

Bauma is arguably the world's most influential construction equipment show, and LiuGong is keen to share its vision of just how far sustainable technologies can go. LiuGong's intense investment in sustainable technologies and intelligent equipment solutions has resulted in record sales for its BEVs globally.

The company's strategy remains completely focused on listening to its customers and helping them generate success through sustainable machines using the latest technology. A clear indication of Bauma's significance is LiuGong's top leadership's decision to attend and share the company's highlights, vision, and strategy. It's an



excellent opportunity for them to engage with the customers and learn first-hand how the European market perceives LiuGong's new products.

LiuGong's vision is focused on being a leader in sustainable solutions by challenging the status quo and by pushing the boundaries of possibility in BEV, automation, and innovation. Chairman Zeng will be at the show to share the company's vision with the global press.



Building India's Future!

Innovation, and technology drive the transformation of the Indian construction equipment industry.

The Indian construction equipment (CE) industry stands at the crossroads of transformation, driven by the dual forces of automation and technology. As the sector seeks to become globally competitive and address the growing demands of infrastructure development, one critical aspect stands out—skilling. A robust and future-ready workforce is essential to harness the potential of cutting-edge technologies such as automation, drones, IoT, and telematics. For India's construction equipment industry to truly take flight on the global stage, it is imperative to not only adopt these innovations but also invest in building a workforce equipped with the skills necessary to operate, manage, and innovate within this rapidly evolving landscape.

Technological Evolution

One of the most significant drivers of change in the construction equipment sector is automation. With the advent of smarter, more efficient machinery, automation is revolutionising the way construction projects are managed and executed. From dumpers with tracking systems to advanced equipment embedded with

sensors, automation is enabling real-time monitoring, enhanced productivity, and improved safety.

Rajiv Chaturvedi, Vice President, Hyundai Construction Equipment India, points out the growing need for this technology. However, he acknowledges a significant challenge: the cost. "India is a very price-sensitive country. For technology to truly make an impact, it needs to be affordable and accessible to the masses," he says. "The goal is to integrate these innovative technologies, much like mobile phones became accessible to everyone in the country."

Chaturvedi also highlights the role of safety in this evolution. Technologies such as drones and IoT have become instrumental in monitoring construction sites, ensuring that operations are running smoothly and safely. "Drones are used to scan project sites, gather data on equipment safety, and even pinpoint areas



Rajiv Chaturvedi,
Vice President,
Hyundai
Construction
Equipment India

where caution is needed," he explains. This integration of smart technologies is crucial for driving efficiency and mitigating risks, particularly on remote and large-scale construction projects.

Overcoming barriers to technology adoption

While the push for more advanced technology is strong, its adoption is often hindered by limited awareness and financial constraints. **Jaideep Shekhar, Managing Director, Terex India**, notes that despite the availability of telematics—which can track machine performance, operating hours, and maintenance needs—the adoption rate remains low. "The challenge is not just the technology but also the mindset of the industry," he says. "Customers often expect these technologies to be provided for free, which is unrealistic. Manufacturers need to find ways to make these technologies affordable while emphasising their long-term value."

Shekar points out that while India is making strides in adopting technologies such as recycling, a much greater push is required from the government in the form of legislation to incentivise and promote these changes. "The government can play a major role in encouraging the use of sustainable materials and recycling technologies in construction," he says. Globally, many countries have passed laws that drive the recycling of construction and municipal waste, creating a model India can emulate.



Jaideep Shekhar,
Managing
Director, Terex
India

Need for standardisation and legislative support

For India to fully embrace the technological evolution of the construction equipment industry, standardization and regulatory support are essential. **Muthu Sekkar, COO, Hailstone Innovation**, advocates for the creation of uniform standards across the country. "We need 'one standard, one quality'. Currently, the inconsistency in standards for materials like sand across states causes inefficiency," he says. He also calls for legislation to encourage the use of overburden materials—excess material that could be repurposed to replace river sand in construction. "Instead of relying on river sand, we have abundant overburden material that could meet the demand for sand for years to come," Sekkar explains.



Muthu Sekkar,
COO, Hailstone
Innovation

In addition to standardisation, Sekkar also calls for export incentives, which could help India position itself as a manufacturing hub for high-quality construction equipment. "If every district had a unique product, similar to the 'one district, one product' model, it would not only boost the local economy but also enhance the construction equipment sector."

Building a competitive edge

The success of India's construction equipment industry hinges on the development of a strong



One of the most significant drivers of change in the construction equipment sector is automation.

component manufacturing ecosystem. **Upkar Singh, Chairman and Managing Director, New Swan Group**, highlights the need for manufacturing that caters both to the domestic market and for export. "India is a low-cost manufacturing base, which gives it a unique advantage. We can develop machines that are globally competitive and cater to the needs of various markets," Singh states.

In addition to focusing on speed and cost-effectiveness, Singh emphasises the importance of safety and sustainability. "Safety standards in the construction industry need urgent attention. From controlling dust emissions to ensuring worker safety on site, these are key factors that need to be integrated into machinery design and construction practices," he explains.

The adoption of sustainable practices, such as



Upkar Singh,
Chairman and
Managing
Director, New
Swan Group

creating machines that enable faster construction while meeting environmental standards, is also paramount. Singh notes that tenders today increasingly prioritise sustainability, making it a non-negotiable factor for future equipment development.

While technology, regulation, and manufacturing capabilities are key, none of it will matter without the right talent. To keep pace with the global competition, especially from countries like China, Japan, and Korea, India must focus on developing a workforce skilled in the latest machinery and technologies.

Sandeep Kumar, National Product Head, Liugong India, stresses the importance of creating a robust ecosystem for skill development. "We need collaboration between industry, educational institutions, and the government to create a curriculum that aligns with industry needs. Skilled talent must be developed right from the school and college level," he advocates.

Moreover, Kumar highlights the importance of attracting and retaining skilled workers. "It's not enough to just train workers; we need to ensure they stay with the industry. At present, workers are lured by other industries offering better work-life balance, which leads to a high turnover rate," he explains. The focus, therefore, must not only be on imparting technical knowledge but also on ensuring a sustainable and attractive work environment that encourages long-term careers in the construction equipment sector.



Sandeep Kumar,
National Product
Head, Liugong
India

Creating a sustainable future

The future of the construction equipment industry in India hinges on more than just technological advancements—it depends on an ecosystem that nurtures talent, supports innovation, and enforces policies that facilitate industry growth. The need for a skilled workforce is clear, but it must be accompanied by efforts to make India a hub for manufacturing and technology. As the industry strives to meet global standards, its success will depend on a collective effort to improve quality, affordability, and the sustainability of both the environment and talent.

By focusing on skilling and fostering a collaborative approach between industry, government, and educational institutions, India can ensure that it not only meets the needs of its growing infrastructure but also becomes a leader in the global construction equipment market. The road to success is long, but with the right investments in talent and technology, India is poised to be a key player in the future of global construction.



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The Future of Smart, Sustainable Infra

15th
RAHSTA
EXPO

RAHSTA Expo 2025, Asia's premier road and highways exhibition, will showcase groundbreaking innovations in road construction, sustainability, and smart technologies, offering a platform for global collaboration in transforming infrastructure.

Roads form the backbone of any modern economy, facilitating trade, connectivity, and socio-economic growth. Across the world, road networks continue to expand, adapting to the challenges of sustainability, urbanisation, and technological evolution. India, the world's second-largest road network with 6.3 million km of highways, state roads, and local roads, has become a focal point for infrastructure transformation. With increasing investments in expressways, tunnels, and smart roads, the sector is poised for a technological revolution that balances innovation with sustainability.

With Bharatmala Pariyojana, India's government has

set an ambitious goal of constructing 50,000 km of expressways and access-controlled highways by 2047. The nation's budget for road infrastructure has surged to ₹2.6 trillion in 2023, with further increases expected in 2024. However, as roads continue to serve as a key economic driver, the industry must adapt to increasing demands for sustainable materials, automation, and intelligent transport solutions—precisely what RAHSTA Expo 2025 aims to address.

The 15th RAHSTA Expo—Asia's premier roads and highways exhibition—will be held on **September 3rd and 4th, 2025**, at the Jio World Convention Centre. As part of the 11th India Construction Festival, this grand



event is presented by **First Construction Council** and backed by key industry associations such as the National Highways Builders Federation, International Road Federation – India Chapter, and CSIR -Central Road Research Institute. With an expected 10,000+ visitors, 200+ exhibitors, and 50+ speakers, RAHSTA Expo 2025 will bring together industry leaders, policymakers, engineers, and innovators to discuss, exhibit, and implement new technologies in the global road construction industry.

RAHSTA, an acronym for Roads and Highways, encapsulates the expo's mission: to revolutionise the road construction industry with cutting-edge technologies, materials, and safety standards. The event stands as a vital international platform where stakeholders can explore solutions for high-quality, cost-effective, and sustainable road construction. With exhibitors and attendees spanning continents, this expo fosters cross-border collaborations that shape the future of mobility.

One of the focuses of the expo is road safety, a global challenge that sees over 1.3 million deaths annually due to poorly designed and maintained roads. The event will introduce automation in construction,

a transformative force that enhances efficiency in this traditionally labour-intensive industry. Attendees will witness demonstrations of AI-powered predictive maintenance, automated asphalt laying, and drone-based road inspections.

Future-proofing road construction

With growing concerns over carbon emissions, resource depletion, and climate resilience, RAHSTA Expo 2025 is putting sustainability at the forefront. Roads must not only support increasing traffic loads but also be built with environmentally friendly materials.

New innovations to be showcased at the expo include self-healing roads, plastic roads, permeable pavements, solar roads, and nano-technology-enhanced materials. These advancements will help the industry align with global sustainability goals, ensuring that infrastructure growth does not come at the cost of environmental degradation.

With the rise of smart infrastructure, the integration of Internet of Things (IoT) and Artificial Intelligence (AI) is transforming roads into intelligent transport networks. RAHSTA Expo 2025 will feature groundbreaking developments such as: smart roads with real-time traffic monitoring, predictive maintenance using Digital Twin Technology, autonomous construction machinery, and drones for surveying and quality control.

This fusion of digital technology with civil engineering is paving the way for more resilient, efficient, and adaptive road networks globally.

The India Construction Festival

RAHSTA Expo 2025 will be a flagship event under the 11th India Construction Festival, a multi-event platform that celebrates advancements in infrastructure. Alongside RAHSTA Expo, the festival will feature:

- **15th India RAHSTA Conference** – Engaging discussions on policy, investment, and future technologies.
- **13th Equipment India Awards** – Recognising excellence in construction equipment innovation.
- **23rd Construction World Global Awards (CWGA)** – Honouring the industry's most impactful projects and leaders.
- **20th Construction World Architect & Builder (CWAB) Awards** – Honour the visionaries shaping the country's skyline – Top Architects, Top Builders, and Noteworthy Projects.

Attendees at RAHSTA Expo will have access to these prestigious industry events, making it the most comprehensive construction and infrastructure gathering in Asia.

Be a part of RAHSTA Expo 2025

The 15th RAHSTA Expo 2025 presents a golden opportunity for stakeholders, investors, and innovators from across the globe to converge in Mumbai and

Glimpses from RAHSTA 2024!



The Mahindra RoadMaster G9595 comes with the latest Mahindra IMAX Telematics technology.



Tata Hitachi ZAXIS 38U mini excavator is designed for superior maneuverability, performance, and efficiency in tight construction spaces.



ACE backhoes are used in the construction and infrastructure sector for digging, moving, grading and loading earth and other loose aggregates.



ACE's pick-n-carry crane is widely used throughout the engineering and construction sectors.



Sany milling machine is a powerful and durable construction machine created for milling asphalt pavement effectively.



Cat 320D3 GC hydraulic trackhoe excavators offer the ideal balance of control, digging, trenching, and lifting capacity.

Road Development Projects in Maharashtra

Maharashtra is leading the way with ambitious infrastructure projects, including several key expressways, metro systems, and coastal road developments. These projects, estimated to cost billions, are part of the state’s road development plan under the Maharashtra Samruddhi Road Development Corporation (MSRDC), Maharashtra State Industrial Development Corporation (MSIDC), and the Brihanmumbai Municipal Corporation (BMC).

The total value of these projects is significant, with the \$33.14 billion allocated in the Union Budget 2025-26 for infrastructure development across India. Here are some of the key road projects in Maharashtra:

Project	Details	Estimated Cost (in Rs)
Maharashtra Samruddhi Mahamarg	701 km Mumbai-Nagpur Expressway, reducing travel time from 16 to 8 hours	\$6.63 billion
Shaktipeeth Expressway	802 km expressway connecting Pavnar to Goa-Maharashtra border	\$10.1 billion
Santa Cruz–Chembur Link Road (SCLR)	3.45 km + 3 km of elevated roads improving connectivity within Mumbai	\$0.41 million (Phase 1) \$0.96 million (Phase 2)
Jalna-Nanded Expressway	179 km expressway reducing distance between Jalna and Nanded	\$2.65 billion
Bhandara–Gadchiroli Expressway	156 km greenfield expressway connecting key districts	\$0.76 billion
Mumbai Metro Line 5	Part of Mumbai’s metro development; enhancing urban mobility	\$1.01 billion
Mumbai Coastal Road Project	Coastal road development to ease traffic and enhance infrastructure	\$1.53 billion
Mumbai Trans Harbour Link	Sea bridge connecting Mumbai with Navi Mumbai	\$2.15 billion

These projects represent a significant opportunity for infrastructure development, particularly in the road construction sector, which will see substantial demand for advanced construction machinery and technology.

The construction equipment industry in India is witnessing rapid growth, driven by extensive infrastructure projects across the country, particularly in the road and highway sector. The market is booming, with an expected CAGR of 12.6 per cent from 2023 to 2030. As of now, the market value of the construction equipment industry in India is approximately \$7.5 billion, and it is projected to reach \$18.7 billion by 2030.

CE Industry Growth Over the Years

Year	CE Industry Growth (\$ Billion)
2020	5.1
2021	5.6
2022	6.3
2023	7.0
2024	7.5

This rapid growth is primarily driven by increasing infrastructure investments, including large-scale road and highway projects, which require advanced machinery, automation, and AI-powered equipment to meet the scale and complexity of these developments.

The demand for construction equipment in India presents a golden opportunity for international companies looking to enter the Indian market and capitalise on the infrastructure boom. With the industry expected to continue its growth trajectory through 2030, it offers immense potential for both existing players and new entrants in the construction machinery space.

explore cutting-edge advancements in road construction. As the world moves towards more intelligent, sustainable, and resilient infrastructure, this expo will serve as the ultimate platform to drive change and innovation in the sector.

To book your exhibition space, explore sponsorship opportunities, or register as a delegate, visit:

- www.RAHSTAexpo.com
- www.IndiaConstructionFestival.com

For booking exhibition space and

sponsorships, contact:

- Sujoy Gomes: +91 86577 95881 | Email: Sujoy.G@ASAPPinfoGlobal.com

For delegate registrations, contact:

- Siraj: +91 97695 77206 | Email: Siraj.K@ASAPPinfoGlobal.com

RAHSTA Expo 2025 is not just about roads—it’s about the future of mobility, sustainability, and innovation. Be there to witness the transformation of the global infrastructure industry!

Revolutionising Construction Market Intelligence: IMPACCT

Designed for construction professionals, contractors, and consultants, IMPACCT enables easy navigation with customisable search filters and quick access to crucial project data.

IMPACCT is an innovative, AI-powered platform that provides comprehensive market intelligence and business opportunities within India's construction and tender sectors. With over 30 years of experience in the industry, IMPACCT offers timely, accurate, and complete insights to empower its users. The platform simplifies the search for future Current & Future opportunities, procurement notices, projects, tender, and business intelligence allowing users easily filter projects based on Dates, stages, Sector, Category, Sub-category, State, location Value & Mode etc.

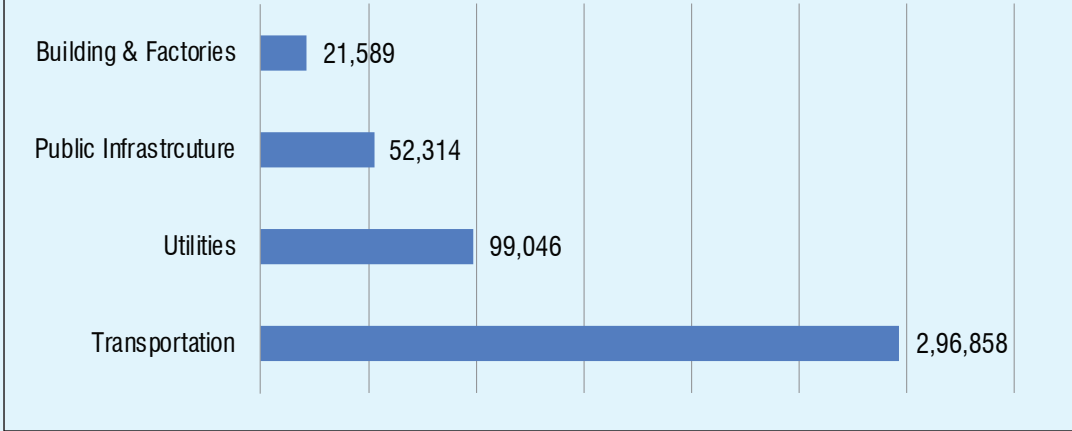
One of IMPACCT's standout features is its AI-driven insights that save users time while providing a competitive edge. The platform's intuitive dashboard and customisable alerts allow users to monitor and plan

for long-term success by accessing detailed company profiles, awarded projects, and tender counts. Additionally, IMPACCT offers access to a vast database of suppliers, competitors, and consultants, facilitating informed decision-making.

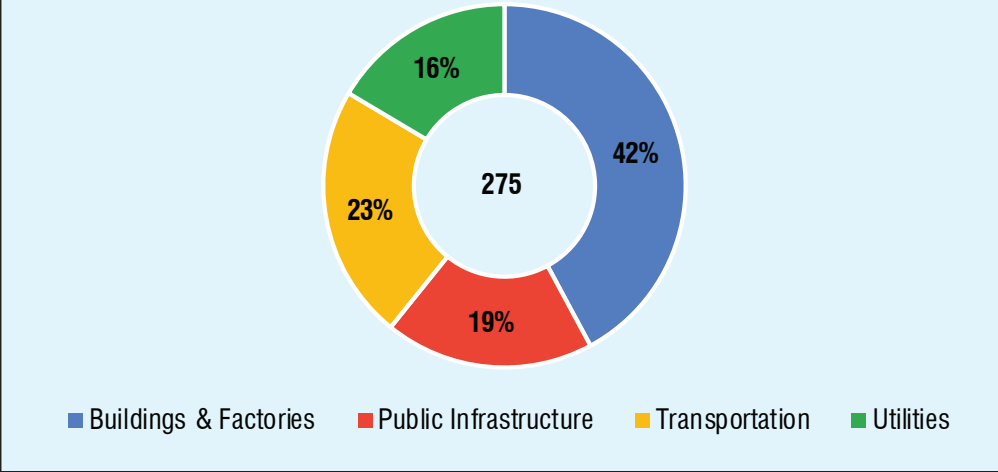
Designed for construction professionals, contractors, and consultants, IMPACCT enables easy navigation with customisable search filters and quick access to crucial project data. It spans a broad range of sectors, including transportation, utilities, public infrastructure, and building, offering opportunities across a wide spectrum of industries. Whether for immediate project participation or long-term strategic planning, IMPACCT ensures that users are always one step ahead in the highly competitive Indian construction market.

IMMEDIATE OPPORTUNITIES	NEXT 3-6 MONTH OPPORTUNITIES	FUTURE OPPORTUNITIES
Greenfield Patna Ring Road, Bihar – ₹362 Cr (Bihar) Category: Roads & Highways	Development of underground railway Vizhinjam–Balaramapuram – ₹1,483 Cr (Kerala) Category: Railway	SAIL Rourkela Steel Plant Expansion – ₹30,000 Cr (Odisha) Category: Industrial
Four-lane widening & strengthening of Aligarh–Ramghat Road (Kalyan Singh Marg), MDR-105 – ₹136.60 Cr (U.P.) Category: Roads & Highways	Kamod Pumped Storage Hydro Electric Project – ₹21,100 Cr (Maharashtra) Category: Renewable Energy	Somnath–Dwarka Expressway – ₹57,120 Cr (Gujarat) Category: Roads & Highways
Hoskote–Malur Road & Elevated Corridor (25.6 km) – ₹828.46 Cr (Karnataka) Category: Roads & Highways	NH-62 Nagaur–Netra 4-Laning – ₹787.33 Cr (Rajasthan) Category: Roads & Highways	GLOBAL City near Chennai – (Tamil Nadu) Category: Smart Cities
Bina Complex: Dehra Dam, 4MW Power House, Weir, Channel – ₹383.44 Cr (Madhya Pradesh) Category: Water	Faridabad–Noida–Ghaziabad (FNG) Expressway – Cost TBD (Haryana/Uttar Pradesh) Category: Roads & Highways	Next Gen Sikkim State Data Centre – (Sikkim) Category: Data Centre
Hirakud Reservoir four Lift Irrigation Schemes (LIS)- ₹581.31 Cr (Odisha) Category: Water	Darbhanga Railway Station Redevelopment - ₹314.26 Cr (Bihar) Category: Railways	Georgia National University in North Andhra Pradesh- ₹1,300 Cr (Andhra Pradesh) Category: Schools & Colleges
Construction of Grand Library and Intellectual Centre at Trichy – ₹351.05 Cr (Tamil Nadu) Category: Government Buildings	Development, Operation and Maintenance of Ropeway from Sonprayag to Kedarnath in the State of Uttarakhand - ₹3589.17 Cr (Uttarakhand) Category: Ropeways	Hindon Airport, Ghaziabad - ₹300 Cr (Uttar Pradesh) Category: Airports

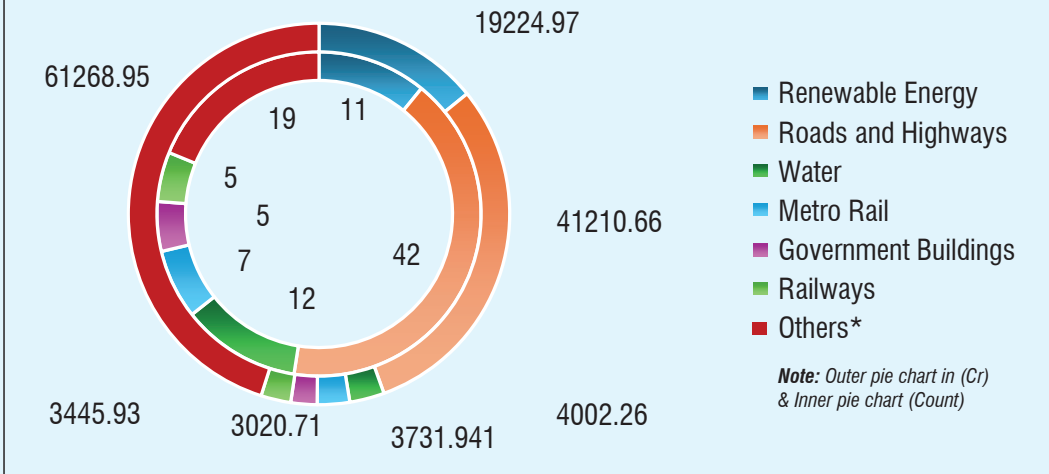
Tendering Projects Opportunites (Cr) : Q4 FY25



Conceptual Projects Opportunites: Q4 FY25



Category Wise Pipeline: Q4 FY25



Showcasing India's Supply Chain Revolution: **MultiLogistix** EXPO

India's First Expo showcasing PM Gati Shakti driving India's Supply Chain Revolution

The MultiLogistix Expo 2025, India's first dedicated logistics and supply chain expo, will highlight innovations transforming India's logistics sector under PM Gati Shakti.

The First Construction Council, in association with **Construction World** and **Infrastructure Today** magazines, is set to present **MultiLogistix Expo 2025**, India's first expo dedicated to the logistics and supply chain industry. Scheduled for **12th - 13th November 2025** at **Yashobhoomi, Delhi**, this groundbreaking event is supported by The Chartered Institute of Logistics and Transport and aims to showcase India's supply

chain advancements under PM Gati Shakti.

The event will provide a unique platform for industry leaders, policymakers, and professionals to discuss and explore innovations in logistics infrastructure, technology, and operational efficiencies. Attendees can expect networking opportunities, panel discussions, and exhibits highlighting the latest trends in multi-modal



transportation, freight corridors, warehousing solutions, and automation.

India's logistics transformation

India's rapid economic growth is underpinned by its logistics sector, with government capital expenditure tripling since FY20, significantly benefiting the nation's road and railway networks. As per the Economic Survey 2023-24, India has risen from 54th (2014) to 38th (2023) in the World Bank's Logistics Performance Index.

Key government initiatives such as PM Gati Shakti, the National Logistics Policy (NLP), and the Sagarmala program aim to reduce logistics costs from 8.35 per cent to 5 per cent of GDP. Investments in Multi-Modal Logistics Parks (MMLPs), dedicated freight corridors, and port modernisation are expected to accelerate economic growth and strengthen India's global supply chain capabilities.

Sanjiv Garg, IRTS CMILT, Former Additional

Key Highlights of MultiLogistix Expo 2025

- **Exhibitor segments:** Logistics services, material handling equipment, and logistics technology providers.
- **Visitor profile:** Supply chain professionals, manufacturers, 3PL/4PL operators, shipping and warehouse operators, and government officials.
- **Networking and thought leadership:** Exclusive panel discussions and keynote sessions with industry pioneers.

Member, Railway Board & Former MD, Pipavav Railway Corporation Limited, remarked: "For India to become a five trillion-dollar economy, the role of logistics in achievement of this major milestone cannot be under-estimated. Hence, reduction in logistics costs will work to further speed up and consolidate the achievement of the goal of Viksit Bharat by 2047."

Logistics contributes 30 per cent of total production costs, with road transport dominating at 70 to 80 per cent. Per-tonne logistics costs range between Rs 1,500-1,800, significantly impacting profitability. Also, the development of dedicated freight corridors and rail connectivity is set to enhance logistics efficiency in the sector.

Emerging trends in logistics

With India's logistics sector evolving rapidly, key advancements include:

- **Multi-modal logistics hubs:** The Bharatmala Pariyojana Phase 1 plans 35 MMLPs with a total investment of Rs 500 billion.
- **Technology and automation:** AI-driven supply chain management, IoT-enabled tracking, and robotics are enhancing operational efficiencies.
- **E-commerce growth:** Rising digital adoption is driving demand for express delivery solutions and automated warehouses.

The MultiLogistix Expo 2025 is the definitive event for businesses looking to explore India's logistics ecosystem, discover investment opportunities, and engage with global supply chain experts. For space bookings and sponsorship opportunities, contact:

- Rajat (North): +91 86910 05256 | Rajat.G@ASAPPinfoGlobal.com
- Chandrashekhar (West): +91 86524 93000 | Chandrashekhar.B@ASAPPinfoGlobal.com

For delegate registrations and inquiries:

Siraj: +91 97695 77206 | Siraj.K@ASAPPinfoGlobal.com
Visit www.MultiLogistix.com for further details.



Collaborating for Decarbonising Cement!

15th CEMENT EXPO 2025

The 15th Cement Expo 2025 will spotlight India's cement industry's growth, innovation, and sustainability, showcasing cutting-edge solutions for a greener future.



Winners of the 8th Indian Cement Review Awards, 2024-25.

The cement industry in India, the second-largest in the world, is on the cusp of remarkable growth as it continues its transition toward sustainability, innovation, and expansion. The 15th Cement Expo 2025, scheduled for November 12-13, 2025, at the Yashobhoomi Convention Centre in Delhi, will be the premier event where the industry's foremost stakeholders converge to explore state-of-the-art technologies and solutions.

Co-located with the 11th Indian Cement Review Conference and the 9th Indian Cement Review Awards, the expo promises to be a pivotal event for professionals in the cement, construction, and infrastructure sectors. This year's theme, "Collaborating for Decarbonising Cement", highlights the sector's commitment to decarbonisation, efficiency, and technological advancement. With India poised to add

80 to 100 million tonnes of cement capacity by 2024-25, the event will address the urgent need for sustainable, low-carbon solutions to meet the growing demand.

Before we look ahead to the 15th Cement Expo, let's reflect on the remarkable success of the Cement Expo Forum 2025, held on March 5-6, 2025, in Hyderabad. The event attracted over 500 industry professionals and featured groundbreaking discussions on sustainability, logistics, and decarbonisation. Key sponsors and partners, such as ABB, Gebr Pfeiffer, JK Cement, and Flender Drives, showcased their latest innovations, contributing to the forum's success.

Pratap Padode, Founder and President of First Construction Council, spoke at the event, noting, "The PPP pipeline is complemented by a provision of ₹1.5 trillion in interest-free loans to states, earmarked for

capital expenditure. With this, we have a solid plan in place. What needs to be done is to ensure that the PPP actually takes off as envisaged. To make this happen, trust must be established, and policies must be investor-friendly. Telangana, in this regard, has demonstrated ease of doing business exceptionally well."

He added, "These financial injections into the infrastructure sector are expected to create a ripple effect, driving demand for cement as a key material in construction and development projects. The growing demand for cement is evident as infrastructure projects continue to rise across the country."



Stalwarts from the Indian cement industry were present at the Cement Expo Forum in Hyderabad.

The forum also provided invaluable networking opportunities, with attendees gaining insights from over 35 distinguished speakers and connecting with more than 50 exhibitors. The event laid a strong foundation for the upcoming Expo, showcasing the significant strides the cement industry is making toward a greener, more efficient future.

The 15th Cement Expo 2025 will focus on advancing the industry's next big step toward sustainable growth. With India's cement sector making significant progress in decarbonisation, a key focus will be on technologies and innovations that support carbon capture, low-carbon cement production, and energy-efficient solutions.

The expo will feature over 50 exhibitors representing all aspects of the cement industry. Whether you are a manufacturer, raw material supplier, technology provider, or logistics partner, the Cement Expo 2025 offers an ideal platform to showcase your products and solutions. Attendees will have the opportunity to explore the latest advancements in cement production technology, automation, logistics, and environmental solutions, all geared toward building a greener and more sustainable future.

Exhibitor profiles will include cement manufacturers, raw material suppliers, technology and automation

solutions providers, environmental and sustainability solutions providers, cement packaging and logistics, construction equipment manufacturers, admixtures and chemical suppliers, and concrete reinforcement and structural systems.

11th Indian Cement Review Conference

Held alongside the Expo, the 11th Indian Cement Review Conference will offer delegates invaluable insights into the latest trends and innovations shaping the cement industry. Focusing on sustainability, the conference will address critical issues such as energy efficiency, plant design, and emerging technologies like carbon capture and automation.

Industry leaders will share their expertise in technical forums, while specialised activities, such as plant tours and energy audits, will provide practical guidance on improving operations and efficiency. This is a prime opportunity to network with industry stakeholders, gain hands-on experience with new technologies, and acquire actionable knowledge to enhance your business.



9th Indian Cement Review Awards

The 9th Indian Cement Review Awards will recognise the fastest-growing cement companies and industry leaders for their outstanding contributions to the sector. This prestigious event will serve as a platform to honour the pioneers of innovation, sustainability, and performance within the cement industry, highlighting the sector's commitment to growth and environmental responsibility.

As we look forward to the 15th Cement Expo 2025, we invite you to join us for two exciting days of networking, learning, and innovation. This event offers a unique opportunity to be part of the next wave of growth and sustainability in the global cement sector. **IN**

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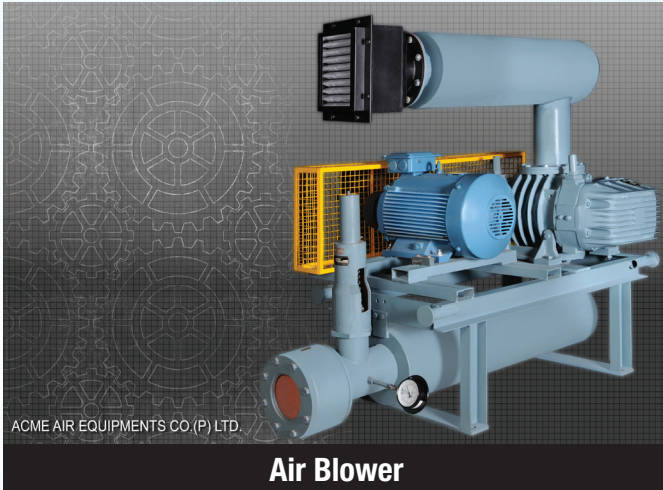
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Devendra Fadnavis, Chief Minister of Maharashtra

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