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India's First Infrastructure Equipment Magazine®

May 2025 • Vol. 18 No. 4

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FEATURES:

- Mini Equipment...30
- Asphalt Plants...38
- bauma 2025...42
- Compressors...62

INTERACTION:

- Dr Jairam Varadaraj,
ELGi Equipments...67

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TARIFFS TEST INDIA'S GROWTH DRIVE

India's construction equipment industry, is now, third largest globally at \$9.5 billion. Its growth of around 26 per cent in FY 2023 and FY 2024, with an average indigenisation of 60 per cent has been a huge feat of a pole vault. Its exports at \$0.7 billion to nearly 135 countries have made a mark in international trade and likely to touch \$ 3 billion by 2030. However, Trump tariffs have become a subject of concern. The USA constitutes 16 per cent of our India's CE export market followed by Saudi Arabia and South Africa.



The recent proposal by the Directorate General of Trade Remedies (DGTR) to impose a 12 per cent safeguard duty on imports of non-alloy and alloy steel flat products is creating shockwaves. Many of the high-tensile and specialised steel grades used in construction equipment are not manufactured domestically, and the imposition of this duty threatens to disrupt supply chains, escalate input costs, and delay deliveries. Steel prices have already jumped by ₹10,000 per tonne, putting pressure on margins and timelines—especially concerning given the recent implementation of CEV Stage V emission norms.

Such a move not only risks derailing domestic infrastructure projects but also threatens India's competitiveness on the global stage, especially at a time when the world is actively exploring "China Plus One" alternatives. The construction equipment industry strongly urges a more consultative and balanced approach, ensuring that domestic steelmakers are encouraged without choking the progress of downstream sectors vital to the nation's growth.

Adding to the global economic tremors is former US President Donald Trump's renewed tariff agenda. His proposed tariffs on auto components are sending ripples across global supply chains, including India's resilient yet export-sensitive auto component sector. The anticipated impact is twofold: disruption in global sourcing strategies and cost escalation that trickles down to consumers through pricier vehicles and servicing.

This has forced Indian auto component manufacturers to double down on localisation and diversification, shifting focus towards reducing dependency on volatile export markets and building more robust domestic ecosystems. With the sector's projected growth now pegged at 7 to 9 per cent for FY25, cushioning the impact of global headwinds will be critical.

In the middle of all these challenges, the recent bauma 2025 trade fair in Munich brought a much-needed boost of energy and inspiration. bauma showed that innovation is alive and well in the equipment space.

From green machinery to autonomous technologies and digitised construction sites, bauma wasn't just a showcase of machines—it was a testament to how collaboration and technological foresight can future-proof industries. Indian manufacturers and innovators, with their rising capabilities, must see bauma as a call to action—leveraging such global platforms to push sustainability, scale, and smart solutions.

As we navigate steel duties, tariff tremors, and global innovation cycles, the message is clear: policy must support industry, and industry must innovate for tomorrow.

Pratap Padode

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Shaping the future of infra, motor graders are evolving with advanced tech and precision to meet the growing demands of tomorrow's construction landscape.

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How mini construction equipment is reshaping India's infrastructure landscape.

Mini Machines, Mega Impact!

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Compact, efficient and investment friendly, mini equipment are redefining how small-to-medium infrastructure projects are executed across the country.

Feature: Asphalt Plants Making Roads Smarter

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India's asphalt plant industry is undergoing a smart transformation, powered by innovation, sustainability, and localisation—redefining how roads are built with greener tech, digital control, and local manufacturing muscle.

bauma 2025

bauma 2025 Sets the Pace

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With around 6,00,000 visitors from more than 200 countries and 3,601 exhibitors from 57 nations, bauma 2025 proved to be a stable foundation and forward-looking platform in turbulent times.

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As construction enters a tech-driven era, empowering equipment rentals through skill development is key to unlocking efficiency, safety, and long-term growth across India's booming infrastructure sector. **Rentals**

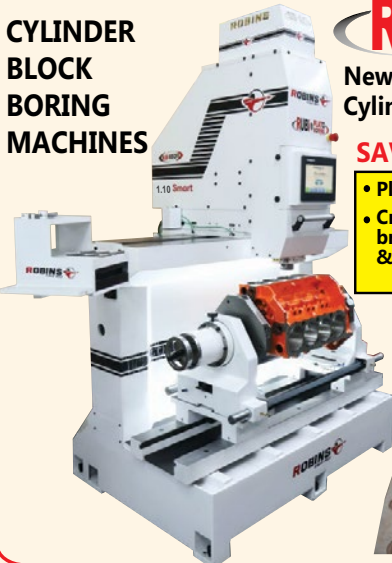
Guest Column

- Cylinder Block Boring & Surfacing Machines (Hole to Hole automated)
- Valve Seat Cutting & Guide honing Machines
- Valve Grinding Machines
- Cylinder Block Honing Machines

US PATENTS BY ROBINS

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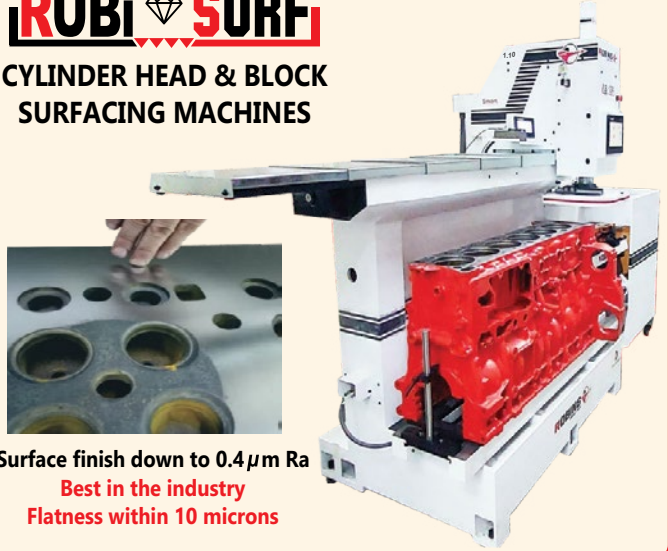
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INSIDE

Building Safer Worksites

The article from CNH Industrial discusses on

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the critical role of preventive maintenance in machinery management.

Report

100 Years of Caterpillar

With over 50 years of operations in India,

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Caterpillar has contributed in building infrastructure and driving industrial progress in the country.

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Smarter, Greener, Stronger

How cutting-edge technologies, sustainability imperatives, and changing construction demands are reshaping the compressor industry.

C.A.S.H

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Special Focus: Compressors

Smarter, Greener, Stronger

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How cutting-edge technologies, sustainability imperatives, and changing construction demands are reshaping the compressor industry.



“Our system offers better stability and reliability.”

– Dr. Jairam Varadaraj, Managing Director, Elgi Equipments

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Event Report

Reimagining Automation in Construction

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As one of the largest employment generators and contributors to GDP, the construction sector is under increasing pressure to deliver faster, safer, and more sustainable infrastructure. In this high-stakes environment, automation is helping to explore the vast potential of modern-day construction.

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JUNE 2025

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CASE India Expands Distribution Reach

CASE Construction Equipment, a brand of CNH, has further strengthened its commitment to customer-centric solutions with the inauguration of a new integrated dealership in Raipur, Chhattisgarh. Operated by Asrial Dhanlaxmi Machinery India, this modern 3S facility offers Sales, Service, and Spare Parts under one roof.

On the occasion, **Carlo Oliva, Head – Network Development APAC, Construction Equipment** segment, stated, “As a global brand, CASE is focused on creating a future-ready network that supports sustainable growth and delivers excellence across every market we operate in. The new dealership is not just an expansion — it reflects our long-term vision of integrating global capabilities with local expertise. By strengthening our presence in central India, we aim to

empower customers with cutting-edge technology, reliable support, and seamless access to our international standards of service.”

The new facility features a fully equipped workshop manned by highly trained service engineers and technical advisors. It is well-positioned to deliver prompt and efficient support not only in Raipur but also in neighbouring districts including Bastar, Mahasamund, and Rajnandgaon. Customers will also benefit from flexible financing options, attractive exchange programmes, and dedicated maintenance and uptime support.

The dealership will offer the



entire CASE product portfolio, including backhoe loaders, vibratory compactors, excavators, skid steer loaders, motor graders, and dozers. With experienced leadership and deep insight into local operating conditions, the new facility is poised to meet the evolving needs of contractors and operators across the region. CASE has been present in India since 1989 and is recognised for backhoe loaders.

JCB India Inaugurates New 3S Facility in Rewa, Madhya Pradesh

JCB India proudly announces the inauguration of the new 3S (Sales, Service, and Spares) facility of its dealership, Badrika Automotive, in Rewa, Madhya Pradesh. This state-of-the-art 20,000 sq. ft. facility will offer JCB's entire product portfolio, delivering cutting-edge solutions to customers across the region.

At the inaugural ceremony, **Deepak Shetty, CEO & MD, JCB India**, said, “Madhya Pradesh is witnessing significant industrial growth, supported by future-ready infrastructure and expanding connectivity through rail, road, and air. As one of the leading states in mineral production, the region also



holds immense potential for mining operations. With our advanced product lineup and robust support systems, JCB and Badrika Automotive are ready to play a key role in the state's ongoing development journey.”

Schwing Stetter Announces Collaboration With MAX-truder



At bauma 2025, Schwing Stetter India has announced a strategic collaboration with MAX-truder GmbH — a global powerhouse in precast tech. Together, they are bringing next-level precast innovation from Bauma to Bharat. This is more than a partnership — it's a bold step forward in sustainable and modular construction.

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Ammann Hosts Successful Asphalt Recycling Seminar

Ammann India successfully hosted the Asphalt Recycling Seminar on April 17, 2025 at Courtyard by Marriott, Mumbai International Airport, bringing together industry leaders, experts, and innovators.

From insightful keynotes and technical deep dives to engaging panel discussions, the seminar showcased the future of road construction with RAP (Recycled Asphalt Pavement).

Highlights:

- Expert sessions by Dr Ambika Behl (F.I.E), Dr Dharamveer Singh, Martinho J Fernandes and



Prasad Dayal

- Panel discussion on "RAP Usage on Indian Roads: Opportunities & Challenges"
- Real-world recycling solutions powered by Ammann technology
- Networking with the nation's top infrastructure minds

TIL Marks Manufacturing Excellence with ReachStacker

TIL Limited has rolled out its 400th Hyster-TIL ReachStacker from its state-of-the-art Kharagpur facility. This milestone, achieved over 14 years since the first ReachStacker production in 2010, further reiterates TIL's manufacturing excellence and its significant contribution to India's MHE sector. The company's production volumes have grown substantially from just 3 units in the first year to over 50 units annually during 2016-19, demonstrating strong market acceptance and manufacturing capabilities. With a target of producing more than 50 ReachStackers in the next fiscal year, TIL Limited continues to enhance its manufacturing capabilities.

Ammann India Inaugurates ABG Screed Assembly Station and ASRS

Ammann India, one of the leading concrete equipment players in India, has inaugurated its new ABG Screed Assembly Station and Automated Storage and Retrieval System (ASRS) at its advanced manufacturing facility. The event was graced by **Hans-Christian Schneider**, Group CEO of Ammann Group, alongside the leadership team led by **Dheeraj Panda**, Managing Director of Ammann India.

The ABG Screed Assembly Station is set to enhance operational efficiency and ensure high-precision assembly, reinforcing Ammann's commitment to delivering world-class paving solutions. This new station reflects the company's dedication to advancing technology and improving manufacturing processes.

Sany Piling Rigs Create New Record!

Sany India has demonstrated its continued commitment to its technological excellence and reliability in large-scale infrastructure projects. In a significant milestone for urban infrastructure development, Sany India's advanced piling rigs have played a crucial role in the swift and efficient completion of the piling phase for Bengaluru Metro Rail Corporation's Phase 2A – package 2. Executed by Shankaranarayana Constructions (SNC), the project involved an extensive scope of 2,523 piles, all completed using eight high-performance Sany Piling Rigs.

Stretching through the heart of a bustling IT park, the entire project route faced continuous high traffic and complex logistical constraints, making execution particularly challenging. Despite these hurdles, the early completion of the piling phase was made possible due to the zero downtime of Sany Piling Rigs,



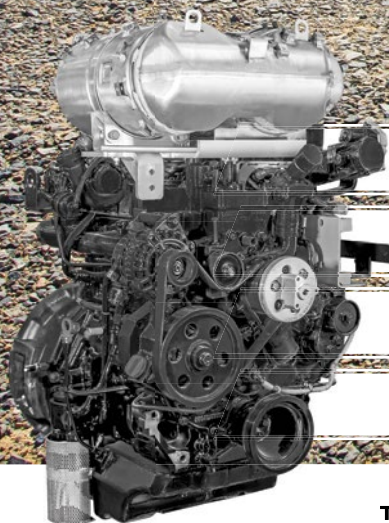
ensuring continuous operations.

The deployment of Sany's cutting-edge equipment not only ensured rapid execution but also highlighted the importance of reliable and efficient machinery in meeting critical construction timelines. The speed and precision of the piling process underscore the growing reliance on advanced technology to drive India's expanding metro infrastructure. Moreover, the project was executed in one of the toughest geological strata, setting a new benchmark for piling efficiency in such challenging conditions.

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Kobelco CE India Marks Milestone with 20,000th Excavator

Kobelco Construction Equipment India (KCEI), a subsidiary of Japan-based Kobelco Construction Machinery Co, has reached a significant production milestone by rolling out its 20,000th excavator at its manufacturing plant in Sri City, Andhra Pradesh. This facility serves both domestic and international markets, reinforcing India's role as a key production center for Kobelco.

Takemichi Hirakawa, Managing Director & CEO, Kobelco Construction Equipment India, said, "Reaching the 20,000th excavator production milestone reflects our commitment to delivering high-quality construction equipment. India has emerged as an important



manufacturing base for Kobelco, meeting both domestic demand and expanding our global footprint. As part of our long-term growth strategy, we remain aligned with the 'Make in India' initiative and continue to invest in R&D, strengthening our capabilities."

KCEI is also setting up a new R&D facility in Sri City, Andhra Pradesh, aimed at enhancing technology development and product innovation. This facility will focus on advanced engineering solutions, customisation for varied market requirements, and further strengthening India's position as a key manufacturing and innovation hub for Kobelco.

KCEI manufactures a wide range of excavators in India, with an annual production capacity of 3,000 units. The company supplies excavators to domestic customers, exports to more than 16 countries and continues to maintain high-end leadership with over 25 per cent market share.

Swaraj Tractors, Mahindra Susten in Solar Deal

Swaraj Tractors, a Mahindra Group subsidiary, has partnered with Mahindra Susten to develop a 26 MW solar power project in Punjab. This initiative aims to reduce carbon emissions and support sustainable manufacturing by transitioning Swaraj Tractors' operations to clean energy sources.

The solar project will supply renewable power to Swaraj Tractors' manufacturing plants, lowering energy costs and reducing reliance on fossil fuels. The move aligns with Mahindra Group's commitment to sustainability and net-zero targets, reinforcing its leadership in green energy adoption.

By integrating solar energy into industrial operations, the collaboration is expected to enhance



energy efficiency, ensuring long-term environmental and financial benefits. Mahindra Susten, the renewable energy arm of Mahindra Group, specialises in solar power solutions, making this partnership a key step toward India's clean energy transition.

The project further supports India's renewable energy goals, promoting corporate sustainability initiatives and encouraging industry-wide adoption of green power solutions.

BULL Machines Unveils SuperSmart Backhoe Loader

BULL Machines announced the launch of SuperSmart, a cutting-edge backhoe loader designed for superior efficiency, enhanced operator comfort, and full compliance with BS5-CEV Stage V norms. The revolutionary machine was unveiled today by **D Vidyaprakash, Managing Trustee - GRD Foundation.**

SuperSmart is engineered to set new standards in the industry with the following features: Two powerful engine options – Kiroloskar & Ashok Leyland Turbo Intercooled; patented APM Technology – Maximised performance and fuel efficiency; 9X less frequent regeneration – Reduced downtime, ensuring uninterrupted productivity; 28 per cent fewer sensors; and enhanced reliability and ease of operation.



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Sany Unveils India's First Hybrid 100t Mining Truck

In a major leap for India's mining and heavy machinery industry, Sany India has introduced the country's first locally manufactured hybrid-powered 100-ton mining dump truck — the SKT130S. This significant milestone was marked by the unveiling of the vehicle at Sany's manufacturing facility in Pune.

The SKT130S represents a new era in mining equipment, combining cutting-edge hybrid technology with a strong emphasis on performance, safety, and sustainability. Equipped with a powerful 925 kW engine capable of producing 3200 Nm of torque, the truck is capable to



undertake even the most demanding mining environments. It boasts a 100-tonne payload capacity and a 61 cubic meter heaped body, making it an incredibly high-capacity machine for the sector.

As India's first diesel-electric hybrid dump truck, the SKT130S is

expected to deliver fuel savings of 20 per cent to 25 per cent compared to conventional diesel-only models. A key innovation is its regenerative braking system, which charges the vehicle's high-voltage battery during downhill operations, enhancing energy efficiency.

The vehicle features an intelligent control module for smooth operation and a 10-inch central control screen for real-time monitoring and navigation. To ensure safety in harsh working conditions, the cabin is FOPS/ROPS certified, meeting global standards for operator protection.

HD Hyundai Opens New Dealership in Hisar, Haryana

HD Hyundai Construction Equipment India has announced the opening of its new dealership, Paras Trucks, in Hisar, Haryana. The event was graced by the presence of Hyundai's Managing Director, Seong Woo Shim, Sr. Vice President, Rajiv Chaturvedi, and Asst. Vice President, Joydeep Bakshi, along with valued customers and finance partners.

A warm welcome was extended to Harsh Jain and Vallabh Jain, Hyundai's new channel partners, as

they join the Hyundai family.

Paras Trucks is now set to deliver Hyundai's trusted construction equipment to the Haryana market. The inauguration was made even more special with the key handover to a valued customer and a heartfelt felicitation to Hyundai's incredible finance partners for their continuous support. This partnership marks a significant milestone in Hyundai's ongoing journey to strengthen its presence.

Mahindra Delivers Over 3,000 Electric SUVs

Mahindra & Mahindra (M&M) has announced the delivery of over 3,000 units of its new electric SUVs—the XEV 9e and BE 6—since customer handovers began on March 20. These vehicles mark the company's entry into the electric SUV segment, built from the ground up on the new 'Origin' platform.

The XEV 9e currently represents 59 per cent of total bookings, while the BE 6 accounts for 41 per cent. Although Mahindra hasn't disclosed the total number of bookings, it did mention that waiting periods have extended up to six months in some regions. The company is working to scale up deliveries to meet demand.

Mahindra also noted that most customers have opted for the fully loaded 'Pack Three' variant across both models. While exact variant-wise sales data was not shared, demand appears focused on the higher-end trims.

Ammann India Expands Reach in Pune

Ammann India has announced the grand opening of its new dealership in Pune, in collaboration with Infraplex Machineries LLP. This new facility will enhance the company's ability to provide cutting-edge products and unmatched after-sales support to customers in the region. The inauguration ceremony was graced by the presence of Manish Kulkarni, Raj Shinde, and Santhosh Iyer, marking a significant milestone in Ammann India's journey to strengthen its network and reach. The new dealership is poised to offer fast and efficient support, easy access to spare parts, and expert guidance – all integral to ensuring that customers' needs are met promptly and effectively.



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Caterpillar Appoints New CEO

Caterpillar has announced that **Joe Creed**, the company's Chief Operating Officer, will become its new CEO effective 1 May. Creed will succeed **Jim Umpleby**, who is stepping down after eight years in the role and nearly 45 years with the company. Umpleby will assume the position of Executive Chairman.

Creed expressed his pride in taking the helm of a company with a century-long legacy, stating: "For 100 years, our incredible people have been the foundation of Caterpillar's success. I'm proud to work alongside our talented employees and dealers as we support customers across our diverse businesses."

Under Umpleby's leadership,



Jim Umpleby (right) and Joe Creed.

Caterpillar executed a strategic shift focused on long-term profitable growth. Since 2017, adjusted profit per share has increased more than sixfold, with 2024 marking a record year.

Hoist & Winch Delivers Roof Lift Solution

Hoist & Winch Ltd has successfully completed a complex lifting project at a landmark building in Nottingham, part of the University of Nottingham's Castle Meadow Campus. Previously an HMRC office, the structure required replacement of its distinctive tensile fabric roof, which had reached the end of its 30-year service life.

The project called for a precise lifting system to safely lower the old roof and raise the new one. Following extensive site visits and technical



consultations, Hoist & Winch provided a turnkey hoisting solution, featuring 12 Yale/CM Lodestar electric chain hoists, each with a 2-tonne safe working load.

Leica Expands OEM Partnerships

Leica Geosystems has announced a wave of new collaborations with six original equipment manufacturers (OEMs), enhancing its footprint in construction technology.

The partnerships include:

- **Develon:** Leica's MC1 3D machine control system will be available as a retrofit option for the latest Develon excavators.
- **Dynapac:** New SD25 and XD25 highway pavers will integrate Leica's iCON pave solution, enabling auto-steering and screed-edge control.
- **Hyundai:** MC1 3D systems will also be offered on next-generation Hyundai excavators.
- **Kobelco:** In collaboration with Xwatch Safety Solutions, Leica is contributing digital control and positioning to optimise Kobelco's K-DIVE remote operation system for Europe.
- **LiuGong:** In Europe, selected LiuGong excavators will receive a factory-fitted hardware kit for seamless MC1 integration.
- **Shantui:** While fewer details were released, Leica confirmed an expanded cooperation covering machine compatibility.

These partnerships aim to broaden the adoption of Leica's precision technologies across the global construction sector.

Hitachi Names New Americas CEO

Hitachi Construction Machinery Americas has appointed **Hidehiko Matsui** as its new CEO and Chairman, replacing Al Quinn, who is retiring after serving as CEO since 2021.

Matsui brings more than two decades of

international leadership experience, including time in Europe and Asia-Pacific. Most recently, he led Hitachi's global marketing and rental equipment units. He is expected to focus on accelerating the company's rental business growth in North America.

Toku Debuts On-Crusher Rock Breakers

Toku America has launched its Striker Rock Breaker Systems, designed to be mounted directly to crushers in quarry and mining sites. This allows operators to clear blockages without

halting operations.

The systems are custom-sized with various reach options and are compatible with Toku's 15-model line of TNB hydraulic breakers, known for minimal moving parts and maintenance-free design.

ZQuip Unveils Hybrid Diesel Module

ZQuip, a division of Moog, has released the ZQ25D—an innovative modular diesel range extender for battery-powered construction equipment.

The unit mounts to machinery just like a ZQuip battery, providing backup power in situations where runtime is limited, batteries are flat, or access to electricity is restricted. With the push of a button, the diesel module activates to keep machines operational in hybrid mode.

ZQuip's battery system,



introduced last year, allows for diesel-to-electric conversions with benefits like zero emissions, reduced noise and immediate torque. The ZQ25D adds flexibility by ensuring continuous uptime regardless of site conditions.

Tadano Launches 10-Person Aerial Platform

Tadano is launching a new series of mobile elevated work platforms including the standout AS-63HD—a crawler/bloom hybrid with capacity for up to 10 people or 2,200 pounds.

The AS-63HD boasts a platform height of 62 feet 8 inches, 37 feet 4 inches of horizontal outreach, and a 360-degree rotating platform. A Kubota 74.3-horsepower engine powers the four-wheel-drive chassis, which offers up to 40 per cent gradeability. The launch follows Tadano's acquisition of Nagano and a strategic stake in Manitex.

Bobcat Introduces Strongest Mini Loader

Bobcat introduces the MT120, its most powerful mini-track-loader with increased operating capacity and industry-leading lift height and reach performance. Powered by a 1.2-litre, non-diesel particulate filter engine, the MT120 delivers robust breakout forces and a maximum-rated operating capacity of 1,200 pounds. The powerful, high-torque engine, optimum machine balance, fast travel speeds and smooth pilot controls all work together to deliver fast cycle times for peak productivity.

At slightly less than 36 inches wide, the MT120 is designed for work



in confined workspaces. With low ground pressure of 3.9 psi with optional 11-inch tracks or 4.3 psi with standard 9.1-inch tracks, operators can achieve optimal flotation for greater performance on soft ground and travel over established surfaces with minimal disturbance.

KOBELCO Offers New Material Handler

KOBELCO's new SK260DLC-11 excavator can now be configured as either a scrap loader or a material handler, specifically designed for the recycling and waste management industries.

It features a 194-horsepower Yanmar engine and a high-performance hydraulic system with an eight-spool main control valve and four pumps. Maximum reach is 42 feet 10 inches for the scrap loader version, and 38 feet 1 inch for the handler.

MEC Lifts to New Heights

MEC has introduced the 135-RJ Diesel Telescopic Boom, its tallest lift to date, reaching a working height of 141 feet. It features an 8-foot jib with 135-degree vertical and 120-degree horizontal rotation.

Set-in-Place Axle Extension enables setup without driving or jacks, allowing work in tight areas while preserving the surface beneath.

The machine can drive at full height with four steering modes and 45 per cent gradeability.

JLG Enters Agricultural Market

JLG has entered the agricultural market with five new telehandlers tailored for farming and ranching. Model numbers indicate weight capacity and lift height. The AG823 lifts 8,000 pounds to 23

feet. AG-series machines include standard agri quick couplers and optional dual auxiliary hydraulics. Smaller models feature skid steer compatibility for attachment versatility. These machines are built for demanding rural tasks.





Graders of Tomorrow

Shaping the future of infra, motor graders are evolving with advanced tech and precision to meet the growing demands of tomorrow's construction landscape.

In the quiet hum of construction zones and the grand symphony of mega infrastructure projects across India, one machine plays an essential, often unsung role—the motor grader. As India embarks on its most ambitious infrastructure push to date—spanning expressways, rural roads, and mining haul roads—the humble grader has evolved into a symbol of precision, productivity, and purpose. Welcome to the era of the “Graders of Tomorrow.”

Motor graders are engineered for finesse. Their primary role is to level and smooth surfaces to perfection, forming the base of modern roads. From clearing debris to creating precise slopes and contours, they provide the groundwork that supports India's ever-expanding web of highways, smart city corridors, mining access paths, and rural links. Yet, beyond the blade lies a storm of innovation that

is redefining what these machines can achieve in the digital age.

The need for these machines has skyrocketed. With the country's push to develop an extensive road network under programmes like Bharatmala, Pradhan Mantri Gram Sadak Yojana (PMGSY), Sagarmala, and the Smart Cities Mission, the demand for reliable, efficient, and smart construction equipment has intensified. And manufacturers are stepping up in dramatic fashion, blending rugged engineering with cutting-edge technology.

Technological renaissance

“Cat technologies give the edge that is needed to improve machine and operator efficiency while working safer,” says **Mukul Dixit, Director – Sales and Marketing, Caterpillar's Global Construction and Infrastructure Division**. Caterpillar's latest range, including the Cat® 120, 120

GC, and 140 GC, exemplifies this ideology. These machines are not just powerful—they're intelligent.

Caterpillar integrates smart systems like Cat Product Link™ for GPS monitoring and AccuGrade™ for automated blade control. These features allow operators to execute precise cuts in fewer passes, eliminate manual survey stakes, and reduce rework, thereby saving both fuel and time.

Their technological arsenal doesn't stop there. Caterpillar's Remote Troubleshoot and Remote Flash capabilities allow software updates and diagnostic scans to be conducted offsite, dramatically improving machine uptime and reducing the need for on-ground service visits. Further, features like improved visibility, joystick steering, and reduced maintenance cycles via advanced filtration systems enhance user experience and lifecycle value.

Added Dixit, "Caterpillar offers multiple solutions and variety of products to help our customers meet their demands and make them successful. Our wide range of Motor Graders include 120, 120 GC, 140 GC and SEM 915. The new Cat 120 Motor Grader powers through any job with the utmost performance. The new Cat 120 GC and 140 GC Motor Graders combines reliable performance with lower owning and operating costs. Our all-new next gen Cat Motor Grader are engineered to take the customer satisfaction to a new horizon. Our new Cat Motor Grader consumes less fuel compared to its predecessor, pushing up performance to a great extent, all the while bringing down the operating cost. The ground-up redesign of the all-



Mukul Dixit
Director – Sales and Marketing,
Caterpillar's Global Construction and Infrastructure Division

new cab ensures enhanced visibility with connecting rear windows, seat options along with the new information display screen. The new filtration technology and the extended maintenance intervals reduce the maintenance cost. The new hydraulic valves provide continuous matching of hydraulic and pressure to power demand and ensure precise, predictable, and consistent implement movement. Cat technologies give the edge that is needed to improve machine and operator efficiency while working safer."

Cat motor graders are equipped with technologies like Cat Product Link™ along with GPS connect, which not only help improve traceability and visibility but also enable the systems to observe, identify and understand different facets of heavy machinery operation without human intervention and improves the maintenance and operation of machines. Cat Motor Graders are also equipped with AccuGrade™ Grade Control System which enhances grading accuracy and virtually eliminates the need for survey stakes and reduces guesswork and costly rework by moving dirt right the first time, reducing the operating costs.

"Our long-standing Cat dealers Gainwell Commosales India and Gmmco and their extensive service network is our strength", said Dixit. Our dealers are accessible round the clock and offer an end-to-end solution that includes first-rate after-market support and full spectrum of maintenance services like Condition Monitoring (CM) which provide best-in-class customer experience by fostering repairs before failure and Schedule Oil Sampling (SOS) which provides complete fluid analysis to maintain equipment health.

Meanwhile, ARX Equipment, a rising Indian manufacturer, is revolutionising how motor graders are perceived. "We make machines



Amarnath Ramachandran
Managing Director, Arx Mining.

in India for the world," states **Amarnath Ramachandran, Managing Director, Arx Mining.** With Italian design, radar, LiDAR, advanced me-

chatronics, AEBS (Autonomous Emergency Braking Systems), and health-monitoring sensors integrated into every model, ARX is boldly marching toward a future of fully autonomous graders—starting with their mining lineup.

Telematics and Predictive Intelligence

Across the board, telematics is becoming non-negotiable. At LiuGong, every grader comes pre-fitted with electronic engines and real-time monitoring sys-



Nischal Mehrotra
Senior Vice President (Sales & Marketing), LiuGong India

tems. "We even get an alert if more than five litres of fuel are siphoned off—no matter how remote the location," reveals **Nischal Mehrotra, Senior Vice President (Sales & Marketing), LiuGong India.** With dashboards accessible via mobile apps, operators and fleet managers are now empowered with granular insights into machine health, usage patterns, fuel efficiency, and preventive maintenance needs.

LiuGong's lineup caters to the hiring segment, road contractors, and mining contractors responsible for road maintenance. The motor graders are available with power options starting at 160 HP, followed by 180 HP and 220 HP models. The 160 HP variant is the preferred choice for hiring jobs, while the 180 HP model is favored by contractors seeking optimal productivity and catering



Graders are no longer niche machines—they are multipurpose workhorses.

CHALLENGES IN INDIA'S GRADER ECOSYSTEM

- High capital investment deters small contractors
- Shortage of skilled operators affects productivity
- Maintenance costs and fuel usage remain high
- Emission norms require expensive R&D
- Rental models dominate, reducing OEM profitability

to end-users. The 220 HP motor grader is specifically designed for applications in mining areas. All our machines in the 160 HP and 180 HP categories are equipped with Ashok Leyland engines, ZF transmissions. Each machine comes equipped with AC cables for enhanced comfort. The

220 HP model designed for mining applications features a UHI engine, ensuring robust performance in challenging environments.

CASE Construction Equipment's motor graders also champion this cause with embedded trip meters, real-time diagnostics, and hydraulic intelligence. CASE's C-Series machines go a step further with multi-radius blades, externally driven circle teeth for reduced wear, and variable horsepower engines tailored for fuel savings and workload adaptability.

The CASE New "C" series motor grader equipped with all latest industry feature i.e. variable horsepower improve fuel consumption best in the market, rear side mounted cabin provides unmatched visibility even in crab grading operation, externally

driven circle teeth are designed to provide a larger contact area to avoid components wear and for a greater leverage when turning the blade under load. This means there is no need for slip clutches or shear pins, which normally require repositioning or repair. MULTI RADIUS BLADE radius design consists of three different radius allowing a more efficient and continues cutting, mixing and rolling. The mixing effect is efficient on the spread-out material too. This improves road surface consistency and longevity.

Diverse applications, unified purpose

Graders are no longer niche machines—they are multipurpose workhorses. From expressways in Uttar Pradesh to mining haul roads

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Mining, rural roads, expressways, and greenfield airports continue to drive the demand for motor graders.

in Chhattisgarh and rural tracks in Maharashtra, their versatility is paramount.



Surat Mehta
Head of SDLG
India

Surat Mehta, Head of SDLG India, emphasises, “Design changes must focus on visibility and operator comfort.” SDLG’s G9138 and G9190 models

feature ROPS/FOPS compliant cabins, centralised controls, GPS-enabled performance tracking, and flexible mouldboard configurations suited for diverse job sites.

SDLG motor graders feature electronic engines and centralised controls facilitating total ease and convenience in operations. From

keeping a close eye on operating hours and effective machine utilisation to continuously checking pressures, oil temperatures and other performance parameters, SDLG motor graders raise the bar of excellence when it comes to monitoring and control technologies.

On the other hand, BEML, India’s premier public sector OEM, unveiled the BG 1205, a behemoth fitted with a 24-foot blade aimed squarely at high-load mining operations. **Shantanu Roy, Chairman and Managing Director, BEML,** said, “For rural and semi-urban



Shantanu Roy
Chairman and
Managing
Director, BEML

infrastructure, BEML offers smaller variants like the BG 405 and BG 605I.” Monitoring technology includes the electronic engines where the health and various other factors can be monitored. It ranges from the oil temperatures, pressure and levels etc. GPS technology helps in monitoring the position, running hours and effective utilisation of the machine. Control technology includes the overload protection system. The BG605I motor grader model features a hydraulically-controlled movable blade for ultimate precision and performance on any terrain – from highways and airports to construction and agricultural applications. Its blade can cut higher depths and create bank slopes of up to 90 deg.

Equipped with an impressive 24-foot blade, the BEML's BG 1205 has been meticulously crafted to meet the evolving demands of the mining sector. Designed especially for high-intensity operations in regions such as SECL Bilaspur and Northern Coalfields Limited in Singrauli, this state-of-the-art equipment is tailored to support the increasing need for efficient road-laying machinery capable of handling high-capacity dumpers. With a focus on superior performance, the BG 1205 is set to enhance productivity, ensure operational efficiency, and contribute significantly to the sustainability of mining operations, the release stated.

Recognising the need to empower small contractors, Mahindra Construction Equipment introduced the RoadMaster G75 Smart—a compact, affordable, and technologically adept grader with a 74 HP CRDi engine and iMAXX telematics system. The G75 Smart has helped democratise access to mechanised grading, especially for Tier 2 and Tier 3 city contractors who previously relied on makeshift tractor graders.

The RoadMaster G75 Smart offers road contractors, liberation from compromised makeshift solution, such as manual labor and farm tractor-based graders. It is the ideal machine for spreading and grading applications for the rural, semi-rural and district roads, land development, internal housing and commercial roads. It enables small road contractors to participate in projects with grading needs for government flagship programs as Smart City, as well as PMGSY roads. The RoadMaster G75 Smart provides small contractors affordable uncompromised mechanisation and an opportunity to deploy a registered motor grader in the smaller projects which was not possible hitherto with the conventional graders. Also, it will help improve the quality and

longevity of work and quicker turnaround of projects.

The RoadMaster G75 Smart is powered by a 74 HP Mahindra CRDi engine which is coupled with a 3 m (10 ft) wide blade and iMAXX telematics solution. This equipment is optimized to deliver zero compromise grading at an equipment cost marginally higher to tractor grader but still fractional as compared to conventional motor graders making it Profit Ka Partner of small road contractors. It comes with a one-year warranty, eliminating the customers anxiety when it comes to expensive repairs. This is possible due to Mahindra's engineering and manufacturing capability, backed up by a gruelling testing regime and sourcing of the best components and the simplicity of the machine design.

Governmental push

In a significant policy shift, the Ministry of Road Transport and Highways (MoRTH) has mandated the use of Automated & Intelligent Machine-aided Construction (AIMC) tools—including GPS-enabled motor graders, intelligent compactors, and stringless pavers—for upcoming expressways. This initiative, successfully piloted on the Lucknow-Kanpur Expressway, is set to become standard practice in national highway construction. The goal? Higher construction quality, lower project time, and transparent project monitoring.

With India planning to add 45,000 km of high-speed corridors by 2047, AIMC represents not just a technological shift, but a mindset transformation for the entire construction ecosystem.

Terrain-specific customisation

India's geography is a complex mix—rocky hills, coastal plains, desert tracts, and dense forests. This requires adaptive engineering.

Komatsu, addresses this need with

dual-mode transmissions, hydraulic blade-tip control, and emission-compliant engines tailored for Indian terrain. Their GD535-5 model offers precise gradability in mixed-soil conditions.


Similarly, Dana Rexroth's HVT2 transmission system enables continuous variable transmission (CVT)—ideal for both high-speed grading and ultra-precise operations like slope creation. This dual capability is especially valuable in hill road development and snow-laden areas.

Market size and emerging challenges

According to industry reports, India's motor grader market was valued at approximately \$30 billion in 2021, projected to grow at a CAGR of 5 per cent till 2028. Mining, rural roads, expressways, and greenfield airports continue to drive demand. However, the sector faces a fair share of challenges:

- High upfront costs restrict access for small players
- Shortage of skilled operators hampers machine productivity
- Maintenance and fuel costs deter long-term ownership
- Regulatory compliance around emissions adds R&D burden
- Rental market dominance affects direct sales and margins

Despite these, OEMs remain optimistic. "We're the leading grader brand in Gujarat and heavily involved in the Ganga Expressway," shares Mehrotra. ARX plans to commence exports in 2025, and BEML continues to lead with indigenous innovation.

The future belongs to machines that are smarter, safer, and more sustainable. The "Graders of Tomorrow" are no longer just tools of trade—they are partners in progress. And as India moves rapidly toward an infrastructure-driven economy, these machines are not just paving roads—they are paving the path to a new nation. 



Small is the New Big!



How mini construction equipment is reshaping India's infrastructure landscape.

In the vast and booming landscape of construction in India, where massive cranes, towering dumpers, and mighty excavators have long dominated the horizon, a silent revolution is underway. It's compact, efficient, and impressively powerful — the era of mini construction equipment is not just arriving, it's already transforming job sites across the country. From metro cities to rural roads, mini excavators, telehandlers, skid steers, and compact loaders are

proving that small is indeed the new big.

India's infrastructure growth, especially in the post-pandemic years, has pivoted to urban and rural development at scale. With congested city spaces, narrow roads, complex underground utilities, and the need for rapid yet efficient construction, contractors are seeking machinery that is not only strong and durable but also versatile and space-efficient.

Enter the mini construction equipment segment, which has

witnessed remarkable growth in recent years. From mini excavators and skid-steer loaders to telehandlers, the compact segment is becoming the preferred choice for developers, municipal contractors, and rental businesses.

As **Siddharth Chaturvedi**, Vice President, Tata Hitachi



Siddharth Chaturvedi
Vice President,
Tata Hitachi
Construction
Machinery

Construction Machinery, aptly puts it: “The Introduction of the ZAXIS 38U is a testament to our commitment to delivering innovative and reliable solutions that meet the evolving needs of our customers.”

The ZAXIS 38U, Tata Hitachi’s 3.5-tonne mini excavator, exemplifies this new wave. Equipped with a high-output Japanese engine and an advanced hydraulic system, the machine has a short tail swing radius, making it ideal for tight urban environments, landscaping, and utilities. Its reinforced structure and rear-view camera ensure safety without compromising power.

At bauma, L&T-Komatsu unveiled its PC35MR-3 mini hydraulic excavator. Blending Japanese engineering with Indian insight, the machine is tailored for the country’s dynamic terrain and complex infrastructure demands.

“With India’s swift urbanisation and infrastructure growth, the need for compact, versatile construction equipment is increasing,” says **Arvind K Garg, Senior Vice President & Head – Construction & Mining Machinery, L&T**. “The Komatsu PC35MR-3 exemplifies L&T’s commitment to providing innovative solutions that enhance operational efficiency and support sustainable development.”

With a wide-angle swing boom, fuel-efficient engine, and low-emission output, the PC35MR-3 is both a performer and a green warrior. Its ability to dig foundations and trenches with surgical precision while reducing manual labour has made it a staple for contractors operating in spatially challenged environments.

CASE Construction Equipment has taken a global approach to its mini



Arvind K Garg
Senior Vice
President & Head
– Construction &
Mining
Machinery, L&T



From mini excavators and skid-steer loaders to telehandlers, the compact segment is becoming the preferred choice for developers,

excavator segment, offering machines from 1.5 to 6 tonne. With both electric and IC engine-powered options, the focus is firmly on compactness, operator comfort, and efficient breakout force.

“Our mini excavators prioritise the comfort and safety of the operators, promoting ergonomic design and advanced safety systems,” shares **Shalabh Chaturvedi, Managing Director – India & SAARC, CASE Construction Equipment**. He further notes that CASE is planning to launch a specific 3–3.5T model to tap into 80 per cent of the market demand in India, a smart move considering the machine’s ROI and high rental appeal.

With an eye on doubling the market size by 2030, CASE is also leading the localisation push by planning Indian production lines for global standard machines.



Shalabh Chaturvedi
Managing
Director – India &
SAARC, CASE
Construction
Equipment

Kobelco, too, is riding this wave with its versatile lineup of mini excavators ranging from 0.8 to 6 tonne. Its SK30SR-6 and SK35SR-6 models are fitted with Yanmar engines and zero tail swing designs, enabling operations even in the most cramped areas.

“Compact machines like the mini excavator are in high demand due to rapid urbanisation,” says **E Moses, Executive Vice President, Division Head, Kobelco Construction Equipment**.

“Our iNDR system ensures low noise and dust, while components are placed ergonomically for easy maintenance.”

From trenching and pipe-laying to solid waste management and landscaping, Kobelco mini machines offer high hydraulic efficiency and operator comfort, creating a compelling value proposition for both urban and semi-urban contractors.



E Moses
Executive Vice
President,
Division Head,
Kobelco
Construction
Equipment

Skid steer loaders: Missed potential?

While mini excavators thrive, skid-steer loaders haven't quite gained the same traction in India. "It's been 30+ years and volumes are hardly to be excited about," notes **Sunil Tewatia, Chairman and MD, Suretech Infrastructure**. "The growth rate of Skids is too low when compared to the rest of the world."

Skid steers are the go-to equipment globally due to their versatility and compact design. However, India's preference for backhoe loaders, limited awareness, and low adoption have resulted in sluggish growth. Suretech points out that while Bobcat offers a full range of skid steers, most models are imported and the market remains highly price-sensitive.

However, as the rental market expands and construction in tight urban spaces increases, there may still be light at the end of the tunnel for this category — especially if awareness campaigns and education are intensified.

Speaking of Bobcat, the company has doubled down on innovation. The next-generation 1–2 tonne mini excavators — including the E16, E17z,

WHY MINI IS WINNING

Several macro trends are converging to fuel the mini equipment boom:

- **Urban densification:** With city spaces shrinking, compact machines are the only viable option.
- **Affordability and ROI:** Lower purchase costs, high fuel efficiency, and reduced maintenance mean faster returns.
- **Rental market growth:** Mini machines are hot favourites for rental companies due to their versatility and ease of transport.
- **Government push:** PMGSY roads, smart cities, metro projects, and housing schemes are driving demand for nimble, efficient construction tools.
- **Green construction:** Battery-electric and low-emission models are finding takers in emission-conscious projects.

E19, and E20z — come equipped with smart features, load-sensing hydraulics, and enhanced cabins.

"Over 50 engineers and designers have worked on the new designs... validated through over 20,000 hours of testing," shared

Robert Husar, Product Line Director for Bobcat, EMEA.

These machines are not only quieter but also more responsive, perfect for indoor projects, landscaping, and micro tunnelling work.



Robert Husar
Product Line Director for Bobcat, EMEA

Engcon's EC204 tiltrotator brings

high-end capabilities to 2- to 4-tonne excavators, allowing for 45-degree tilts, infinite rotation, and quick attachment changes using the EC-Oil system — all without leaving the cabin.

This level of automation and flexibility significantly enhances jobsite productivity, especially in utilities and finishing work, while reducing the need for multiple machines and labourers.

Not to be left behind, Hyundai Construction Equipment Europe has announced its first battery-electric mini excavator, the HX19e, ready for production in April 2025. This electric marvel can run for nearly 7 hours on a single charge, with fast-charging options and performance on par with its diesel counterparts.

As India embraces green construction, electric mini equipment like the HX19e may find favour among forward-thinking contractors looking to reduce emissions without compromising productivity.

Telehandlers: Expanding the scope of mini material handling

Telehandlers, traditionally viewed as niche equipment, are becoming more common on Indian construction sites. JCB India has capitalised on this shift with a range of Made-in-India models from 7 to 17 metres in reach.

"Telehandlers are gaining



With manufacturers focusing on electric variants, operator safety, and IoT-driven fleet management, the mini equipment is rapidly evolving.





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popularity and are today being used in core sectors like agriculture, construction and industry,” says **Deepak Shetty, MD & CEO of JCB India.** “With over 40 types of attachments, they’re incredibly versatile and suited for diverse applications — from RMC plants to tunnel projects.”



Deepak Shetty
MD & CEO of JCB
India

Features like the Q-Fit mechanism for quick attachment changes, global side engine design for visibility, and operator safety systems such as ROPS & FOPS make them a smart investment. JCB’s LiveLink telematics also provides real-time data for fleet monitoring, predictive maintenance, and geo-fencing — a powerful edge in managing machine uptime and cost.

One of the most impressive stories in the mini equipment space comes from SANY India, which recently exported over 1,000 telehandlers to the United States.

“This export milestone is a testament to SANY India’s dedication



Telehandlers, traditionally viewed as niche equipment, are becoming more common on Indian construction sites.

to the ‘Make in India’ vision,” said **Deepak Garg, Managing Director, SANY and South Asia.** “With our robust manufacturing capabilities, we are poised for continuous growth and innovation.”



Deepak Garg
Managing
Director, SANY
and South Asia

SANY’s strategy of building a

strong supply chain ecosystem within India — for everything from engines to axles — has ensured not just global quality standards but also faster production and export timelines.

According to CASE, the mini excavator market in India is expected to double by 2030. Kobelco and Tata Hitachi, too, foresee massive uptake across Tier 2 and Tier 3 cities.

The future is compact

From smart cities to farm lands, and from metro rail tunnels to cramped urban alleys, mini construction equipment is proving indispensable. With manufacturers focusing on electric variants, operator safety, and IoT-driven fleet management, this segment is rapidly evolving.

Whether it’s a mini excavator deftly trenching a cable duct in a Mumbai bylane, or a telehandler stacking bags of cement on a rural highway project, compact machines are increasingly becoming the backbone of India’s infrastructure revolution.

In the world of construction, where size once reigned supreme, it’s now agility, adaptability, and efficiency that lead the charge.

Indeed, small is the new big!



The mini excavator market in India is expected to double by 2030.

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Mini Machines, Mega Impact



Compact, efficient and investment friendly, mini equipment are redefining how small-to-medium infrastructure projects are executed across the country.

India's construction industry is undergoing a dynamic transformation—driven by ambitious government schemes, urban renewal efforts, and rural infrastructure development. At the heart of this evolution lies a powerful enabler: mini construction equipment. Compact, efficient and investment friendly, these machines are redefining how small-to-medium infrastructure projects are executed across the country.

Meeting India's infra needs

As cities grow denser and villages

demand better connectivity, the need for agile and efficient construction solutions has soared. Mini construction equipment such as walk-behind rollers, plate compactors, concrete vibrating pokers, and concrete cutters have become indispensable across both urban and rural job sites. The surge in demand is especially visible in projects supported by flagship programmes like PM Gati Shakti, Smart Cities Mission, PMGSY, and PMAY-Urban.

Market indicators tell the story that equipment like mini excavators (under 3 tonne) and concrete/asphalt cutters have seen significant growth year over year, highlighting their increasing relevance in everything from utility trenching to precision paving.

Light equipment thrives in environments where traditional machines struggle. Whether it's a small walkway in the gardens or compacting the bunds at small irrigation sites or compacting the basements in multi-storeyed buildings, their compact size and application relevance makes them perfect for navigating limited-access areas. These machines are less noisy, designed to operate with special considerations minimising disruption in hospitals, schools, and residential zones even during daylight hours.

Their mobility and ease of transport allow for quick relocation between job sites to make them the best choice for investing in them. According to NHAI studies, urban projects using mini machines report lesser traffic disruptions, a crucial factor in public-facing works.

Alongside, Indian market is changing to more scientific way of doing construction projects instead

of traditional methods. This also reduces the risk with dependency of skilled labour.

Designing for India

Light equipment built for the Indian market must endure rugged conditions, high heat, and varying fuel quality. We have responded well by developing models that offer:

- Fuel efficient by using well-known and reliable engines
- Durability in extreme temperatures
- Simplified design for easy maintenance using locally available parts
- Affordable price points
- Short time training programmes from few hours to less than two days to improve the skill of operators

These characteristics are not just desirable—they are essential to ensure successful adoption in India's continuously evolving and skill-constrained construction ecosystem.

Time is money

Mini equipment significantly shortens project timelines. A single walk-behind roller can compact larger areas compared to manual methods. One mini machine can minimise too many labour interventions, resulting in productivity gains. These machines also improve material utilisation and finish quality there by achieving better consistency and longer life of constructions. From housing projects under government initiatives to infrastructure developments, mini equipment plays a critical role in ensuring speed, quality, and consistency.

Contractors and operators are embracing the change

As awareness spreads, adoption is accelerating especially in tier-2 and tier-3 cities. We have plans to



A single walk-behind roller can compact larger areas compared to manual methods.

improve adoption by engaging with partners who helps us develop operator ecosystem under Skill India Mission. Small and midsize contractors are increasingly diversifying into rental models of doing business.

Looking ahead

Dynapac is aware of opportunities, and we have been proactive in building our light equipment portfolio at Dynapac factory in Pune to cater for domestic and international needs. In

India, we operate the light compaction portfolio under Redline Brand to meet the domestic needs of the product. We offer a full range portfolio of both compact and concrete products which places us well to offer the right products for the application.



About the author:
The article is authored by **Mahesh Grampurohit** of Dynapac.



Making Roads Smarter

India's asphalt plant industry is undergoing a smart transformation, powered by innovation, sustainability, and localisation—redefining how roads are built with greener tech, digital control, and local manufacturing muscle.



India's infrastructure boom has driven a parallel revolution in the asphalt plant industry. Once marked by basic technology and heavy reliance on imports, the sector has evolved dramatically in recent years. At the heart of this transformation lie three driving forces: innovation, sustainability, and localisation. From precision control systems and hydrogen-fuelled burners to local manufacturing hubs and recycling-enabled plants, Indian and global players are shaping a future that is efficient, green, and self-reliant.

Indian manufacturers are not just catching up—they're setting benchmarks. Companies like Kaushik Engineering Works have introduced asphalt batch mix plants ranging from 90 TPH to 240 TPH, featuring technological tie-ups with Turkish firms to align with European quality standards. These plants are equipped with fuel-efficient burners, superior



Niraj Shah
MD, Kaushik
Engineering
Works.

mixing mechanisms using vertical twin-shaft mixers, and space-saving compact designs.

"Our high world-class technology and fuel-efficient burners result in lower fuel consumption, and our baghouse filters enable better pollution control," says **Niraj Shah, Managing Director, Kaushik Engineering Works.**

On the other end of the innovation spectrum, Ammann India leads the charge with digital integration. Their AS1 Control System and ACE Systems for compactors elevate efficiency by delivering millisecond-level response

times and flexible automation modes. “Our technology platform is global but customised for local needs,” shares **Dheeraj Panda, Managing Director, Ammann India**



Dheeraj Panda
Managing Director,
Ammann India

India. Their adoption of IoT and ability to recycle up to 60 per cent asphalt further distinguish them.

Similarly, Lintec & Linnhoff’s new Linnhoff DRX DurableMix and TSD MobileMix plants bring advanced double-screen drum technology, drastically cutting down fuel use and maintenance costs. With a batch cycle of 45 to 55 seconds and productivity of up to 160 TPH, these German-engineered, India-manufactured plants exemplify performance-driven innovation.

Embracing sustainability

Sustainability is no longer a buzzword—it’s a business imperative. The Indian government’s push to reduce virgin aggregate use in road construction has accelerated the adoption of Recycled Asphalt Pavement (RAP).

Fayat Marini’s mobile asphalt plants, designed for quick deployment without cranes or civil foundations, support both cold and hot RAP. Their patented Cybertronics software ensures energy-efficient heating, accurate batching, and minimal bitumen loss. “We’ve done critical value engineering across all our plants to avoid derating even while using RAP,” a company spokesperson noted.

Ammann India takes this further by developing burners that run on alternative fuels, including wood dust and biofuels, and are even hydrogen-ready. Ammann’s advanced burner systems allow on-the-fly switching between fuels without production shutdowns—a critical innovation



Localisation has emerged as a cornerstone of India’s asphalt plant revolution.

in reducing emissions and increasing adaptability.

Benninghoven, a European leader, is testing hydrogen burners that operate with minimal NO_x emissions and 20 per cent lower power draw. These burners can work with up to four fuel types—including natural gas, hydrogen, and light oils—without performance degradation, offering a future-proof solution for both new and retrofitted plants.

The localisation wave

Localisation has emerged as a cornerstone of India’s asphalt plant revolution. The Atmanirbhar Bharat vision, coupled with the government’s

push for infrastructure and smart cities, has led global players to localise production.

Gainwell Engineering, for instance, has partnered with Lintec & Linnhoff to manufacture asphalt and concrete batching plants in India with an investment of



Sunil Chaturvedi
Chairman and MD, Gainwell

Rs 50 crore. “The asphalt batch mix plant market in India is growing at 25 to 30 per cent. Localisation is not just strategic—it’s essential,” says **Sunil Chaturvedi, Chairman and**

Managing Director, Gainwell.

Fayat Marini's 150+ asphalt batch mix plants are manufactured in Ahmedabad, blending local fabrication with imported high-end components like mixers and filters. This hybrid model balances cost efficiency with uncompromised quality.

Ammann India too is striving for full localisation but faces challenges with key component manufacturing. "The government should extend PLI schemes to MSMEs in the capital equipment sector. This would boost the local ecosystem," suggests Panda.

Challenges on the road ahead

Despite these advances, the industry isn't without hurdles. From unskilled manpower and raw material volatility to financial delays and regulatory inconsistencies, multiple roadblocks persist.

Shah from Kaushik Engineering outlines the industry's struggle with poor-quality raw materials, lack of trained operators, and high transport costs. He adds, "High volatility in steel prices and delays in customer funding remain major deterrents."

Ammann India raises concerns about non-compliance with environmental norms by unregulated local players offering lower-cost, substandard alternatives. "Lack of enforceability on safety and sustainability standards undermines the market's integrity," says Panda.

These issues are compounded by interstate movement restrictions, taxation burdens, and limited financial network linkages. However, with a positive outlook on future infrastructure demand, stakeholders remain optimistic.

Shifting from batch to continuous

While batch mix plants remain the norm in India due to their flexibility and quality assurance,



Hydrogen, once a futuristic concept, is now a real prospect in Indian asphalt production.

there's a noticeable shift toward continuous drum mix plants, driven by simplicity and cost benefits.

Ajay Tripathi, Director, Nilang Asphalt Equipments, notes,

"Continuous asphalt drum mix plants offer uninterrupted production and lower maintenance. The absence of mixing towers reduces the need for civil works."



Ajay Tripathi
Director,
Nilang Asphalt
Equipments

However, for projects requiring high-quality custom mixes or using specialty materials like stone mastic or high RAP content, batch plants with forced mixing continue to be preferred. Their ability to control mixing time and parameters makes them indispensable for precision-driven projects.

TIL, in collaboration with Astec, USA, offers both variants with RAP utilisation up to 50 per cent, modular designs, and energy-efficient configurations—underscoring the growing demand for hybrid solutions.

Smart, green, and global


The next chapter in India's asphalt plant evolution will be defined by smart automation, fuel flexibility, and export potential. With the

convergence of European engineering, Indian manufacturing, and green technologies, the country is poised to become a global hub.

Manufacturers are betting big on digital control systems, AI-based monitoring, and predictive maintenance to reduce downtimes and improve productivity. Plants are increasingly designed for modular relocation, making them ideal for India's vast and diverse geography.

Hydrogen, once a futuristic concept, is now a real prospect in Indian asphalt production. As infrastructure and energy policies evolve, hydrogen-ready burners, RAP integration, and biofuel usage will no longer be optional—they'll be standard.

India's asphalt plant industry stands at a transformative crossroads. It is no longer just about laying roads—it's about building smarter, greener, and more efficient ecosystems. With a strategic blend of technology adoption, environmental responsibility, and manufacturing self-reliance, Indian manufacturers and their global partners are rewriting the rules.

As roads across the nation stretch toward newer horizons, the backbone that makes them possible—the asphalt plant—is becoming stronger, smarter, and more sustainable. 



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bauma 2025 Sets the Pace



With around 6,00,000 visitors from more than 200 countries and 3,601 exhibitors from 57 nations, bauma 2025 proved to be a stable foundation and forward-looking platform in turbulent times.

Not every trade fair can act as a gauge for the industry—but bauma does every time. The world's leading trade fair for construction machinery, building material machines, mining machines, construction vehicles and construction equipment was held from April 7 to 13 at the Munich exhibition centre. In a time characterised by global challenges, bauma has impressively demonstrated what the industry is capable of. It was not only a stage for pioneering innovations and new partnerships—it also continued to be

a key source of inspiration.

With around 6,00,000 visitors from more than 200 countries and 3,601 exhibitors from 57 nations, bauma 2025 proved to be a stable foundation and forward-looking platform in turbulent times. **Stefan Rummel, CEO, Messe München**, is delighted: “We hosted around 600,000 visitors from more than 200 countries and regions. bauma is the heartbeat of the industry and has once again shown how crucial exchange and personal encounters are for progress and global trade. The Munich exhibition

centre sends out a strong signal of confidence for the entire industry.”

Beating heart of the industry and topic leader

Many exhibitors confirmed that bauma sets the pace for the industry both in terms of content and emotion—especially with regard to sustainability and future topics. **Erich Sennebogen, Owner, Sennebogen**, emphasises the signal effect: “bauma 2025 showed a strong heart of the industry—with SENNEBOGEN representing its green core. We are delighted with the positive atmosphere in the sectors,

bauma continues to be a highlight for us, because it shows how the industry is developing. This is where we see trends – and set them! Anyone who has visited our stand at bauma knows that there is a special atmosphere here. The visitors are enthusiastic and every day you can experience what it is that makes us as the Wacker Neuson Group so unique: Innovation, team spirit, passion and a trusting partnership with our customers. bauma offers us a fantastic platform to engage with visitors and inspire them with the solutions from our strong Wacker Neuson and Kramer brands.



– Alexander Greschner,
Chief Sales Officer, Wacker
Neuson Group

which we hadn't expected in this form. For this reason, bauma can be a positive stimulus for a revival in the construction industry, as well as in the material handling sectors, both in Germany and internationally."

Holger Schulz, Managing Director, Zeppelin (CAT), also emphasises the relevance of bauma as a leading trade fair and innovation platform: "The who's who of the German, European and international construction and extraction industries meets at bauma. Once again, it demonstrated its status

At bauma, we showcase a number of important future topics, such as drive technology and autonomy. For us, bauma is much more than just a trade fair – it is the platform where the future of the industry is made tangible. My personal highlight is our bauma motto, "Hands on the future". For us, this is not just a phrase, but an attitude; one that is also well received by our customers. We are a reliable partner and bauma is an opportunity for us to come together with customers and partners to jointly find solutions for the construction site of the future.



– Steffen Günther, a member of the Board of Directors of
Liebherr-International AG

as a leading trade fair and proved to be the beating heart of the industry. The seven days of the fair are a pure adrenaline rush for us. For us, bauma is the best sales platform in the world. Sustainability—the sustainable operation of construction machinery and construction sites with the latest drive systems and energy storage solutions—remains an important topic. In addition, there is also the entire area of networked construction sites and networked construction machinery."

A focus on topics of future
Wolfgang Sochor, CEO, HAWE Hydraulik, likewise sees clear technological trends confirmed: "bauma 2025 has impressively demonstrated that trends such as CO₂ reduction and alternative drives have established themselves in the industry."

Steffen Günther, a member of the Board of Directors, Liebherr-International AG, adds: "At bauma, we showcased a number of important future topics, such as drive technology and autonomy. For us, bauma is much more than just a trade fair—it is the platform where the future of the industry is made tangible. My personal highlight was our bauma motto 'Hands on the

bauma is an indispensable platform for us. It brings together decision makers in the industry from all over the world – and as a technology leader, this is exactly where we want to be. The quality of visitors was particularly high this year: there were lots of concrete project inquiries and good discussions. The big issues were clear: digitalisation, automation and sustainable solutions for the infrastructure of the future. My personal highlight was the direct feedback from our customers on our latest innovations.



– Martin Herrenknecht,
Founder and
Chairman of the Board of
Management of
Herrenknecht AG



The next bauma will be held from April 3-9, 2028, at the Munich trade fair.

future'. For us, this is not just a phrase, but an attitude; one that was also well received by our customers."

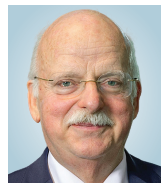
Business platform with a global impact

The event also emphasised the fact that bauma is not only a meeting place, but above all a driver of business. Robert Hauser, CEO, Doka, summarises that "the joint trade fair appearance of Doka and other brands of our parent company was a complete success. The interest in our innovations and further developments was overwhelming. For us, bauma is the most important platform for advancing future topics. It brings the world of the construction industry together—from North America to Asia. Nowhere else do we have so many high-

quality discussions with the most important customers worldwide in such a short time—we only get this

at bauma! In short: it was the most successful bauma for us to date."
Joachim Schmid, Managing

bauma is the largest and most important trade fair for the construction and mining industries. It addresses the entire industry – end consumers, dealers and rental companies alike. It also presents all the technical innovations, market strategies and market requirements. The visitor quality is excellent. Almost 90 per cent of visitors are characterised by specific, short- or medium-term needs. bauma's main topics are different drive systems, such as combustion engines, electric drives and battery drives; electrification of the construction site; and digitalisation as the basis for increased efficiency and an even higher level of quality for processes in the construction sector.



Thomas Kaeser, Chairman, Kaeser Compressors



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The Wirtgen Group and John Deere are thrilled by the feedback from our customers – especially regarding our digital solutions in the field of Smart Automation. Their trust, which is also reflected in the sales successes at the show, is overwhelming and serves as motivation at the same time.

Volker Knickel, CEO, Wirtgen Group

Director, VDMA Construction Machinery and Building Material Plants Association, adds: “The trade fair is a great success and, in some cases, exceeds the business expectations of our member companies. The upcoming formation of a new government with the recently published coalition agreement and the expected investment packages are providing positive momentum, as is the trend to focus more strongly on the European market.”

This year’s trade fair contacts were characterised not only by their quantity, but also quality—a fact that was particularly emphasised by international exhibitors. **Toshiaki Ujiie, President and CEO, Tadano Group**, points out the role of bauma as a global platform, saying: “bauma offers the perfect stage to present our latest technologies and solutions to a global audience. It is an invaluable event that enables us to exchange ideas directly with our customers and industry experts.” **Mehmet Varlik, Managing Director, SCHWING Stetter Group**, was also impressed by the response: “bauma 2025 surprised us with an extraordinary level of international

“bauma has impressively demonstrated that trends such as CO2 reduction and alternative drives have established themselves in the industry. With our wide range of electrification products and a case study on the use of artificial intelligence in hydraulics, we were able to hold lots of interesting discussions with specialist visitors and gather valuable feedback from the market. AI can help us to operate our systems in a particularly efficient and resource-saving manner, significantly reduce energy consumption and thus also reduce our carbon footprint.”

Wolfgang Sochor, CEO, HAWE Hydraulik



This year in particular, bauma was of great significance for Volvo Construction Equipment: our fully electric machine line-up was met with tremendous enthusiasm – especially the world premiere of our electric hauler. The quality of visitors was impressive: highly knowledgeable, open to innovation, and genuinely interested in sustainable solutions. Our dealers had numerous high-value conversations – a clear indication of the relevance of our topics. No other trade fair combines international reach, technological innovation, and practical relevance quite like bauma – that’s what makes it so unique. The strong response to our electric solutions was one of our major highlights.

Carl Slotte, Head of Sales Region Europe, Volvo CE



public interest from the very first day of the trade fair.”

bauma recorded significant increases in visitor numbers, particularly those from Brazil, Portugal, Romania, the Netherlands, Turkey and Spain. The numbers from China also increased again compared to the top result at bauma 2019.

Together toward the future

In times of change, bauma shows that innovative strength is primarily the result of encounters, exchange

and cooperation. Summing up, **Alexander Fickers, CEO, Faymonville**, says: “What an incredible week at bauma in Munich! Countless inspiring conversations with customers and partners from all over the world have made this event a true highlight. bauma once again reminded us: innovation thrives where people come together with vision, enthusiasm and drive.”

The next bauma will be held from April 3–9, 2028, at the Munich trade fair.



ACE Showcases India's Engineering Excellence

Action Construction Equipment (ACE), India's leading material handling and construction equipment manufacturer and market leader in the mobile cranes and tower cranes segment, holds a 63 per cent share in mobile cranes and 60 per cent in tower cranes, driving growth across infrastructure, construction, manufacturing, logistics, defense, and agriculture. Beyond domestic leadership, ACE has expanded its global footprint, exporting to over 44 countries across the Middle East, Africa, Asia, and Latin America. Its participation at bauma 2025 reinforces India's position as a global hub for construction equipment innovation and manufacturing.

The global construction equipment market is projected to reach \$194.10 billion by 2030, with India expected to play a crucial role in

driving this growth. With its advanced manufacturing capabilities and cutting-edge solutions, ACE is well-positioned to address the evolving demands of infrastructure development worldwide.

Sorab Agarwal, Executive Director, ACE, said, "ACE is not just manufacturing equipment; we are shaping the future of global infrastructure. Our commitment to innovation, sustainability, and engineering excellence drives us to set new industry benchmarks. As governments worldwide invest in modernisation, ACE is ready to deliver cutting-edge solutions that enhance efficiency, reliability, and sustainability. Bauma 2025 is a powerful platform to showcase India's manufacturing strength, and we are proud to represent the nation on the world stage."



As a strong ambassador of 'Make in India,' ACE continues to expand its presence across Europe, the Middle East, Africa, Southeast Asia, and South America, bringing Indian engineering excellence to international markets.

At bauma 2025, ACE presented its latest innovations, including the Equal Wheel Backhoe Loader, 3.5-tonne Telehandler, and NX360 Multiactivity Pick-and-Carry Crane, reinforcing its commitment to technological excellence and

Hidromek's 14 New Models

HIDROMEK exhibited 22 machines, 14 of which were new, at its 2.176 m² booth at this important event. While ending a long period of curiosity with the first member of the new telehandler product group, HIDROMEK also offered exciting clues about how it will shape the

CE industry with its future vision with the "Technology Zone" area built at wits stand.

HIDROMEK was the focus of intense interest at bauma 2025, where it exhibited 14 new models. HIDROMEK raised curiosity about its new product group, especially with the hints it gave before the exhibition, and drew attention with its first telehandler model, HMK 40-18 TH, which was launched at

this exhibition. With its strong structure, durable boom and high capacities, HMK 40-18 TH signaled from its first exhibition that it will be the new favorite of construction sites. HIDROMEK also brought the machines of the future to its booth under the name "Technology Zone". Teleopera and the unmanned and remotely controlled HMK 630 WL wheel loader and HMK 130 CS soil compactor models were the center of attention with their exceptional designs. During the fair, controlling the machines in Ankara from Germany via Teleopera was met with great excitement and interest by the visitors. HIDROMEK's first 100 per cent electric crawler excavator HICON 70C E and hybrid engine wheel loader



HMK 635 WL Hybrid were also exhibited for the first time in this area and attracted attention as sustainable solutions for the future of the construction equipment industry. At the same time, NEXT package, which carries hints from the new excavator series and focuses on improving the user experience, and HMK 230 LC, the first model offered with this package, made their debut at bauma 2025.

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Combilift Unveils Self-Propelled Inloader

Combilift, the global leader in innovative material handling, unveiled its pioneering Self-Propelled Inloader 'COMBi-SPI'. This highly anticipated launch marks a significant milestone in the transport of high loads, such as precast concrete, wall panels or glass A-frames, within production facilities and yard environments.

Development of the COMBi-SPI began in April 2022, driven by the need for an efficient, manoeuvrable, and cost-effective alternative to expensive trailers and trucks. The objective was clear: to create a versatile solution capable of handling 30-tonne loads on industry standard Inloader Pallets with superior visibility, agility, and ease of operation. The collaboration with Spaansen, a specialist in precast concrete, influenced the design through to the final stages. Early prototypes focused on reducing overall length and width and enhancing manoeuvrability for working in busy production facilities.



However, the project took a significant turn when Spaansen opted for a fully electric model mid-development. This shift required a complete redesign to integrate the electric wheel motors as well as fit the interchangeable batteries into the legs of the machine. Advanced Features for Unmatched Performance

- **Side-facing cab:** Provides operators with a clear view of both the load and direction of travel, ensuring enhanced safety and precision.
- **Sliding load supports:** Adjustable supports along the chassis to accommodate various load lengths

and heights during travel.

- **Pivoting front dual-wheel configuration:** Eliminates need for suspension, optimises stability and gives a tighter turning circle.
- **300 mm ground clearance:** Designed for both concrete and gravel yards, offering reliability across diverse work environments.
- **Power options:** Available in Electric (with interchangeable battery system), diesel, catering to different operational needs.
- **Compact yet powerful:** The short chassis enhances load support, maintains a low centre of gravity and offers more manoeuvrability, especially while operating within production facilities.

With unmatched manoeuvrability and faster operational speed, the self-propelled inloader transforms yard-based logistics by eliminating the reliance on multiple trailers and shunters, significantly enhancing efficiency and reducing operational costs for businesses handling oversized, high loads.

XCMG Excavator Debuts 13 E-Series Models

XCMG Excavator, a specialised excavator business unit from XCMG Machinery, made its grand entrance at bauma 2025 under the theme Solid Innovation for Green Tomorrow, unveiling 13 E-series excavators meticulously designed for European markets. bauma saw XCMG Excavator attract significant attention with its cutting-edge solutions and record-breaking orders.

To address regional demands, XCMG Excavator's technical and marketing teams collaborated closely with European partners to develop excavators tailored to local operational needs. Among the

highlights were three flagship models: the XE10E and XE45E mini excavators, optimised for urban projects, and the XE530E heavy-duty mining excavator, engineered for rugged terrains. These models, featuring enhanced performance and efficiency, garnered immediate interest and multiple letters of intent from attendees.

Kicking off with a wave of high-profile contracts signings, the XCMG Excavator exhibition saw a landmark agreement for 300 units, including its regionally celebrated XE19E and XE27E models, shatter the single-order record at the event.

Leveraging years of customer insights and compliance with stringent EU regulations, XCMG Excavator unveiled a full spectrum of mini, medium, and large excavators. The mini lineup drew particular praise, with Hans from FORKLIFT OÜ, an Estonian contractor exclaiming, "Gute, supergute Maschine!" during a live demonstration.

Aligned with the European Green Deal, XCMG Excavator emphasised its commitment to eco-friendly technology, showcasing zero-emission, low-noise, and energy-efficient machinery.

Liebherr, Reycom and Qualcomm Join Forces

Liebherr and Reycom are collaborating with Qualcomm Technologies, Inc. to develop and deploy LiRISE®, the next generation of edge AI gateways with scalable security, cutting-edge AI and autonomous applications. LiRISE® is built to withstand harsh environments, pushing software-defined machines and industrial appliances to new heights.

“By delivering security-rich, high-performance, and future-ready solutions, we help our customers navigate an increasingly complex world. Through collaborations with leading technology companies, we unite deep industry knowledge with cutting-edge innovation,” says Claus von Reibnitz, Head of Control Systems & Connectivity at Liebherr.

“The demands on gateways for



autonomous applications are constantly increasing, and only a close integration of hardware and software can meet the combination of functionality, performance, and security. Additionally, the stringent requirement to enhance resilience against cyber-attacks further increases the complexity of the overall system architecture,” emphasises Pascal Rey, CEO and founder of Reycom. “LiRISE® provides the platform that enables

customers to focus on their applications.”

“The collaboration represents an exciting step toward more intelligent industrial machines,” said Eric Mazzoleni, Vice President, Industrial and Embedded IoT Sales – Europe at Qualcomm Germany GmbH. “By integrating our Qualcomm Dragonwing™ QCS6490 and industrial-grade IQ9 Series processors into Liebherr’s next-generation edge AI gateways, we are enabling high-performance computing and accelerated AI features that will support a variety of new AI-rich applications. We are proud to collaborate with these industry leaders as they unlock the full potential of edge AI for industrial appliances and software-defined machines.”

WOLFF’s Intuitive Wireless Crane Control System

At bauma 2025, Wolffkran presented a world’s first in wireless crane control: WOLFF Intuitive Control. This groundbreaking technology fundamentally redefines crane operation via remote control – introducing an intuitive control system that, for the first time, shifts the focus from crane movement to load movement. The result? Easier handling, fewer sources of error, and greater efficiency on the construction site.

Until now, crane operators using wireless control had to manually translate the desired overall movement of the load into individual commands for each crane axis. They had to control the trolley, jib, and hoisting operation separately. Additionally, they needed to mentally convert their own viewpoint into the crane’s coordinate system. For example, an operator standing at the



front of the jib, facing the crane, who wanted to move the load to the left from their perspective, had to move the remote control to the right – an operation requiring significant experience and concentration.

WOLFF Intuitive Control takes over this complex coordinate transformation automatically, allowing the operator to move the load directly in the desired direction. No more simultaneous coordination of slewing, trolley movement and hoisting. The mental effort of translating crane rotations into actual load movements is eliminated.

Instead, WOLFF Intuitive Control uses a Cartesian movement system, enabling intuitive load control: Move the control element forward, and the load moves forward. The same applies to all other directions. This allows for much more precise and effortless fine positioning, even in poor visibility conditions.

The new WOLFF Intuitive Control is operated via an ergonomic wireless remote control, which can be comfortably worn on the hip or back with a strap, providing maximum freedom of movement at the construction site. The WOLFF Cam display can be integrated into the control unit, ensuring the crane operator always has an optimal view of the load. Cabin-based crane operation remains unaffected – Intuitive Control is designed exclusively for wireless remote control.

Faresin Debuts FS6.26 Compact Telehandler

Faresin Industries unveiled the FS6.26 telehandler at bauma positioning it as the most compact and agile model in its range. Dubbed “The Mason’s Helper”, the FS6.26 replaces the successful FR6.26 which saw over 2000 units deployed globally. Designed for confined and off-road environments, the FS6.26 stands out with a maximum height under 2000 mm width of 1920 mm and a turning radius of 3250 mm—making it ideal for municipal applications rental fleets and bulk material handling.

This model introduces a host of innovations including smoother engine compartment lines that enhance visibility and multilayer



composite materials that reduce noise. It also features a new electronically controlled stepless transmission offering three driving modes. These improvements result in fuel savings of up to 30 per cent over its predecessor.

The redesigned hydraulic system now delivers 80 litres/min at 210 bars via a gear pump. Flow-sharing hydraulic distributors enable

simultaneous control of up to three boom operations. The boom itself benefits from electro-proportional control and a 155° tilting angle for easier unloading of bulk materials.

A spacious cab with market-leading ergonomics features a 5-inch colour display for real-time monitoring and the joystick includes a customer-requested reverse switch for safer hands-on-wheel operation. Additional safety features include a stability indicator emergency stop button and limited-slip axles with oil-immersed brakes. With its blend of power manoeuvrability and intelligent control systems the FS6.26 reinforces the commitment to delivering user-friendly equipment.

John Deere’s Machine Safety Solutions and E-Drive Equipment

Focusing on industry innovation and customer success, John Deere introduces new safety and efficiency technologies at bauma 2025. Customers in certain European markets will soon benefit from solutions such as SmartDetect™, SmartDetect™ Digital as well as the John Deere SmartWeigh™ payload weighing solution to enhance jobsite awareness and performance. In addition, the 744 X-Tier with E-Drive Wheel Loader offers significant machine upgrades, compared to previous 744 models, including fuel savings, increased productivity and visibility to customers around the globe.

“Our customers encounter a range of challenges on the jobsite daily. By expanding our portfolio of safety features and precision construction technologies into new markets, we strive to enhance operator confidence, to support



productivity and performance,” said Katie Voelliger, product marketing manager, John Deere. “Our goal is to provide customers with technology tools that empower operators to work – safely and effectively. The full suite of SmartDetect solutions was designed to do exactly that.”

SmartDetect provides visual and audible alerts to the operator to increase situational awareness of people or objects around the machine. This system also provides a distinct audible alarm to alert the bystander. SmartDetect is currently available as an option on the 444-904 P-Tier and X-Tier Wheel Loader

models in the United States and Canada.

Making its world premiere at bauma 2025 and available for purchase in the United States and Canada is John Deere SmartDetect Digital. SmartDetect Digital integrates seamlessly with the John Deere Operations Center™ to deliver real-time push notifications for events. SmartDetect Digital also provides weekly reports on SmartDetect technology usage and detailed event summaries. Additionally, the system offers customers event heat maps to optimize jobsite layout and supports safety trend analysis for improved jobsite decision-making and risk management.

SmartWeigh for mid-size and large wheel loaders is also expanding into the European market after its successful adoption in the United States and Canada.

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Perkins Debuts Battery-Electric Power Unit

Perkins Engines, an international company known for its diesel engines, is exploring a range of new powertrain technologies, and several of these are on display at the bauma 2025 trade fair in Munich.

New products being highlighted at the show include fuel-flexible internal combustion engines, hybrid power solutions, alternative-fuel power systems, electrification offerings, digital service, and lifecycle solutions.

One particularly interesting new product: a battery-electric power unit, which is making its debut at bauma as a technical demonstrator in a McElroy TracStar 900i pipe fusion machine. This plug-and-play power unit is designed to enable off-



highway OEMs to seamlessly transition from diesel to battery-electric powertrains.

“We’re actively helping customers navigate the shift in power system requirement, with a range of advanced power systems, including electric, diesel-electric and alternative-fuel-compatible engines,” says Jaz Gill, VP of Global Sales, Marketing, Service and Parts.

“The battery-electric power unit can be dropped into a machine to replace a diesel engine. The system consists of a Perkins battery along with inverters, motors and on-board chargers—all packaged into a compact drop-in system to support a seamless transition from diesel to electric.”

The new power unit has been put to the test in a McElroy TracStar 900i pipe fusion machine as a commercial demonstrator—the electric power unit replaces a 3.6-litre 904 Series diesel engine. It fits within the same chassis space and has the same mechanical connection and electrical interface points as the diesel engine it replaces.

Komatsu Debut New-Gen PC220LCi-12 Hydraulic Excavator

Komatsu debuted its new-generation PC220LCi-12 hydraulic excavator (bucket capacity 1.2 m³) at bauma 2025. The PC220LCi-12 is the European-spec model of the PC200i-12, a new-generation hydraulic excavator launched in Japan in December 2024. It is equipped with Information and Communication

Technology (ICT), including the latest generation of intelligent machine control technology. At the exhibition, Komatsu also demonstrated the PC220LCi-12 and introduce its latest ICT technology.

Like Japan, the construction industry in Europe, North America and Australia faces challenges such as a shortage of skilled workers, cost reductions due to rising prices and



the need to improve productivity. As a result, demand for ICT construction equipment that enhances safety and efficiency continues to rise. Komatsu plans to launch this flagship model, PC220LCi-12, in Europe, North America and Australia during fiscal year 2025. By using it alongside Smart Construction, a digital solution that visualises and optimises construction sites, Komatsu will

contribute to the digital transformation and problem-solving of customers’ jobsites.

Key features

The bucket edge position, obtained using sensors and GNSS antennas, is displayed on the in-cab monitor along with 3D design data; this technology contributes to the reduction of staking,

surveying and the need for spotters, ultimately improving site efficiency

The equipment assists operators by automatically adjusting excavation movements to follow design specifications, allowing precise work regardless of operator skill level.

The loads in the bucket and the dump truck are displayed in real time, allowing operators to manage the payload while working.

Scania's New Electric Power Systems

Scania, a provider of transport solutions, handed over its stage at the 34th bauma trade fair in Munich to its new all-electric and hybrid power systems for the construction and mining sectors. The new offerings will complement Scania's existing range of fuel-efficient combustion engine options.

In addition, Scania and Cometto, a manufacturer of self-propelled modular transporters, are teaming up to launch a self-propelled platform for heavy load transportation operations, one also powered by a fully electric Scania solution. The first customer for the SPMT has already been announced: Mammoet, the world's largest heavy-lifting company.

Scania demonstrated its full



range of zero-emission and fuel-efficient power solutions at its booth

at Hall B4, including the Scania-Cometto vehicle.

LiuGong Showcases 13 New Machines

LiuGong unveiled new advancements in battery-electric vehicles (BEVs), next-generation T-Series wheel loaders, and intelligent total solutions. LiuGong showcased 13 models across five product lines – wheel loaders, excavators, mining trucks, dozers, and graders – including five new battery-electric models. Machines were tailored to address key application sectors of quarrying and mining, and demolition and recycling.

“At bauma 2025, LiuGong has demonstrated its leadership in BEV technology, total solutions, and customer-driven innovation,” said Harry Mellor, excavator product manager of LiuGong Europe. “We have listened to our customers and acted. From our industry-leading electric machines to our new T-Series wheel loaders, designed specifically for European operators,



we deliver products that set new milestones for efficiency, performance, and sustainability. It has been fantastic to share these exciting developments at bauma and showcase not just the machines but the complete ecosystem of support that comes with them.”

LiuGong presented the 4280DE, the world's first 24-tonne surface all-electric motor grader, designed for quarry haul road maintenance with an 8 to 10-hour runtime from its 423kWh battery.

The 870HE, LiuGong's all-new electric wheel loader, is the latest

addition to its portfolio of sustainable heavy machinery. With its 423kWh battery, operators can achieve seven to nine hours of uninterrupted zero-emission performance, making it a game-changer for demanding applications. Fast-charging technology enables a 20–100 per cent charge in just 90 minutes, ensuring minimal downtime and maximum productivity.

LiuGong's new electric excavator 924FE, equipped with a high-lift cab, brings the company's performance in demolition, waste, and material handling into the electric era. Unlike tethered cable systems, this battery-electric excavator delivers 7 to 10 hours of zero-emission power per charge – making it ideal for waste sorting barns and environmentally sensitive sites without compromising on strength, reach, or productivity.



Glimpses from **bauma 2025**



(right) Rajiv Poddar, Joint MD, BKT Tires, with Pratap Padode, Founder and Editor-in-Chief, Equipment India.



(left) Ramesh Palagiri, MD and CEO, Wirtgen India.



(left) Kanjanabha Bhattacharyya, MD, Putzmeister India.



(middle) Dr Martin Herrenknecht, founder and Chairman of the Board of Management of Herrenknecht AG, and (left) Manoj Garg, MD, Herrenknecht India.



(left) VG Sakthikumar, MD and CEO, Schwing Stetter India, with (middle) Vinayak Pai, MD & CEO, Tata Projects.



(right) Jaideep Shekhar, MD, Terex India.



(left) Vivekanand Vanmeeganathan, Managing Director, Caterpillar India.



(left) Deepak Garg, MD, Sany India.



Shatrughna Sinha, Consul General of India in Munich, visiting Equipment India's stall.



(From L-R) Nischal Mehrotra, Sr VP (Sales & Marketing), LiuGong India; Pratap Padode; Luo Guobing, Sr VP (Global); LiuGong; Wu Song, MD, LiuGong India; and Tanveer Padode, Chief Information Officer, ASAPP Info Global Group.

(right) Sorab Agarwal, Executive Director, Action Construction Equipment



(middle) V Senthilkumar, Managing Director, and (right) Neeraj Kumar Singh, Chief Commercial Officer, Propel Industries.

(Left) Toshiki Onishi, Director (Sales, Marketing, and Customer Support), and (middle) Sandeep Singh, MD, Tata Hitachi.





Empowering Rentals

As construction enters a tech-driven era, empowering equipment rentals through skill development is key to unlocking efficiency, safety, and long-term growth across India's booming infrastructure sector.

The construction industry is on the verge of a transformation driven by advanced machinery, digitalisation, and sustainable building practices. As the founder of CERA, I have long advocated for robust skilling initiatives that not only prepare the workforce for current demands but also future-proof their careers against rapid technological changes. With the recent upsurge in construction equipment sales, skilling is no longer optional, it is a necessity. The latest initiatives under NSDC, such as Future Skill Centres, International Academies, and Project AMBER, highlight the need to blend innovation with skill development.

The Infrastructure Equipment Skill Council (IESC) plays a crucial role in bridging the skill gap in the construction equipment sector through standardised training and certification programmes. In collaboration with NSDC and major manufacturers (OEMs), IESC develops competency-based training modules focusing on emerging technologies like automation, telematics, and AI driven equipment. Recent initiatives include:

- Expanding training centres to accommodate increasing demand
- Partnering with the National Academy of Construction for advanced skill training
- Certifying over 35,000 workers under the Recognition of Prior Learning (RPL) programme

Despite these advancements, there remains a severe shortage of skilled



operators, technicians, and mechanics. Due to inadequate training, equipment is often poorly maintained, causing losses to rental companies and delaying project completion.

Training innovations for advanced CE

Modern construction sites increasingly rely on high-tech machinery, including autonomous construction equipment, 3D concrete printers, AI-driven surveying tools, efficient fuel management systems, and IoT integrated safety equipment. Traditional training methods no longer suffice, necessitating innovation in training approaches:

- **Simulated virtual learning**

environments: Virtual Reality (VR) and Augmented Reality (AR) modules provide a risk-free training space where operators can practice handling complex machinery before working on real job sites.

- **Leveraging existing infrastructure:** Government and private initiatives should establish learning institutes that can handle high training volumes. Existing infrastructure like ITIs, polytechnics, and basic training centres should be utilised efficiently.
- **Apprenticeship programmes:** The Pradhan Mantri National Apprenticeship Promotion Scheme (PM-NAPS) integrates

hands on learning with next-generation construction equipment. However, apprenticeships should include the latest workshops and technologies.

- **AI-based skill assessment:** AI powered platforms should analyse workers' proficiency and recommend personalised training pathways. Proper skill assessment is needed before issuing certifications, which should be mandatory at all major construction sites.
- **Mandatory licensing and certification:** Workers, operators, and technicians must hold authentic certifications. Government intervention is necessary to implement proper licensing across the construction sector.

The fourth industrial revolution in construction demands a technologically adept workforce. According to the India Skills Report 2025, employability has risen to 54.81 per cent due to increasing demand for AI, cloud computing, and sustainability-focused skills. Key skill areas include:

- **Building Information Modelling (BIM):** A crucial tool for managing construction projects efficiently.
- **Robotics and automation:** Training operators for robotic bricklayers, drone-based inspections, and automated earthmoving machinery.
- **Green building technologies:** Proficiency in sustainable construction materials, energy-efficient systems, and waste management.
- **Cybersecurity in construction:** Protecting critical infrastructure data from cyber threats.

Role of CE rental industry

India is poised to become one of the top countries for infrastructure

development and construction, with the equipment rental industry projected to grow, much like in Japan, China, and the United States. To leverage these opportunities, rental companies must build strong relationships with key stakeholders, including the government, infrastructure corporates, manufacturers, and financiers.

However, the construction equipment rental industry faces a significant challenge: a shortage of skilled manpower. This lack of trained operators, technical staff, and drivers results in frequent equipment damage and financial losses for rental companies. Consequently, many hirers hesitate to adopt new technologies or purchase advanced machinery, hindering industry growth.

To overcome these challenges, rental companies must embrace new training methodologies and technology-driven approaches:

- **Adoption of advanced technologies:** AI, GPS, and drones improve project efficiency, supervision, and coordination. Their implementation can enhance productivity and profitability. Drone infrastructure may take some more time in adaptability due to high maintenance and costing.
- **CERA's role in training and certification:** The Construction Equipment Rental Association (CERA) is actively working to train operators and modernise rental fleets. CERA collaborates with IESC, Skill India, and manufacturing companies to create a certified workforce.
- **Safety training for equipment operators:** Most accidents in India occur when untrained junior operators or helpers operate heavy machinery. To address this, CERA has expanded its training module to include junior

operators and helpers.

- **Encouraging rental companies to train their workforce:** Rental firms should take responsibility for upskilling their manpower and become centres for skill development, ensuring safer and more efficient operations.

Given the rapid technological advancements in construction, skilling must be seen as a continuous process rather than a one-time effort. The adoption of micro-credentialing, where professionals earn stackable certifications in niche areas, can help them stay relevant. Additionally, government and private-sector collaborations must continue investing in lifelong learning initiatives, ensuring a future ready workforce. There is ample work force and employment in rural areas which can make a big impact in this big gap of skilling.

Conclusion

The convergence of emerging technologies, innovative training methodologies, and structured upskilling pathways is crucial for shaping the workforce of tomorrow. As automation, sustainability, and digitalisation redefine construction, professionals must embrace continuous learning. With strong support from NSDC, PMKVY 4.0, and industry-academia alliances, India is poised not just to build structures but also to create careers and capabilities that stand the test of time. The future of the construction industry depends on those who adapt, learn, and lead with the right skilling approach, the possibilities are limitless.



About the author:

The article is authored by **Satin Sachdeva**, Founder & Secretary General, Construction Equipment Rental Association (CERA), and Managing Director, Equipment Planet.



Building Safer Worksites

The article from CNH Industrial discusses on the critical role of preventive maintenance in machinery management.



The operational efficiency and safety of construction and industrial projects across India are significantly dependent on the reliable performance of machinery. A crucial element in ensuring this reliability and preventing accidents is a consistent and well-executed approach to preventive maintenance. The demanding nature of the work undertaken in our sector means equipment is often subjected to heavy use and challenging conditions. Over time, wear and tear are inevitable, but neglecting regular maintenance can lead to equipment failure, which not only

causes costly downtime but also poses significant safety risks to personnel on site.

Preventive maintenance is not simply about fixing a problem after it arises; it is a proactive strategy focused on identifying and addressing potential issues before they escalate. This involves regular inspections, scheduled servicing, and the timely replacement of worn or damaged components. By adhering to a well-defined maintenance schedule, we can significantly reduce the likelihood of unexpected breakdowns and the associated hazards in all operational environments. This includes

following manufacturer recommendations for maintenance intervals and procedures, as well as keeping detailed records of all maintenance activities.

Consider the various types of machinery used in our industry – from excavators and loaders to cranes and specialised equipment, found in projects across different states. Each of these machines has critical components that require regular attention. For instance, hydraulic systems need to be checked for leaks, engines require regular oil changes and filter replacements, and structural elements must be inspected for any signs of stress or

damage. Ignoring these essential maintenance tasks can lead to serious failures, such as brake failure, structural collapse, or engine malfunction, all of which can have severe safety consequences. Regular inspections should also include safety features such as emergency shut-off switches and warning systems.

Implementing a comprehensive preventive maintenance programme offers numerous benefits. Firstly, it significantly improves machine safety by ensuring that equipment is operating within its designed parameters and that potential hazards are identified and rectified before they can cause harm. Secondly, regular maintenance extends the lifespan of the equipment, providing a better return on investment for businesses.

Thirdly, it minimises unplanned downtime, leading to improved project schedules and overall productivity. A well-maintained fleet of equipment also presents a more professional image to clients and stakeholders.

The adoption of modern technologies can further optimise preventive maintenance practices. Telematics systems can provide real-time data on machine performance, allowing for predictive maintenance based on actual usage and operating conditions. This data can inform maintenance schedules and alert operators to potential issues before they become critical. Utilising genuine, high-quality parts during maintenance is also crucial to ensure the continued reliability and safety of the equipment.

In essence, viewing preventive

maintenance as an integral part of our operational strategy, rather than an optional expense, is paramount. By prioritising the regular care and upkeep of our machinery, we are not only safeguarding our investments but, more importantly, we are actively contributing to a safer working environment for everyone involved in construction and industrial activities. This proactive approach to machine health is a fundamental pillar of responsible project management and a commitment to the well-being of our workforce nationwide. By fostering a culture of regular maintenance and safety checks, we can create a workplace where equipment failures and accidents are significantly reduced.

Article courtesy: CNH Industrial

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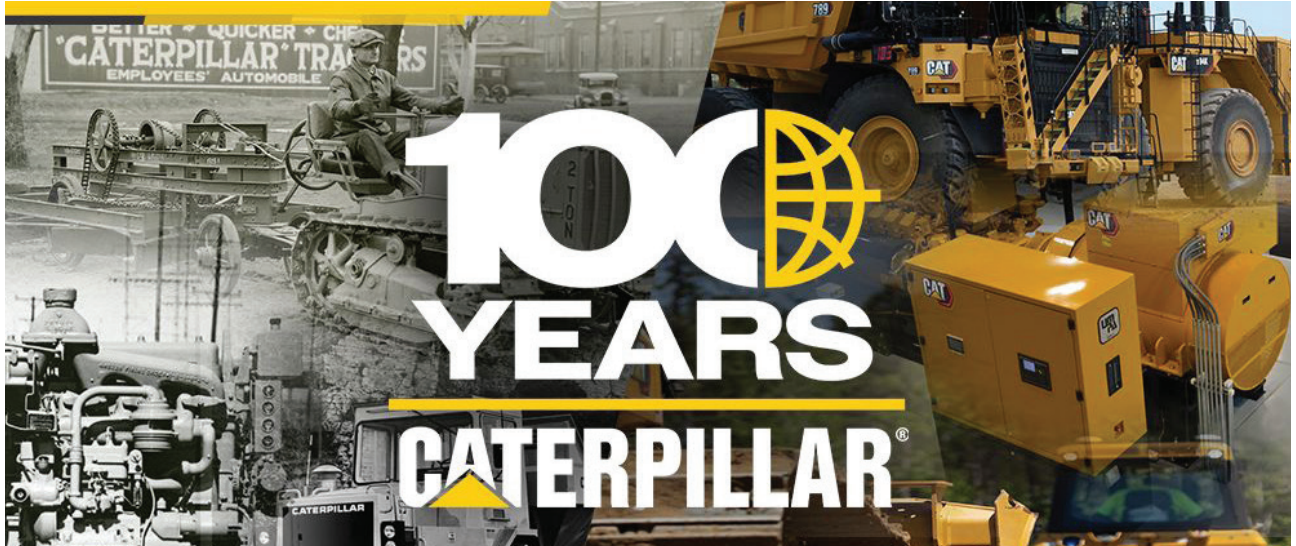
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100 Years of Caterpillar



With over 50 years of operations in India, Caterpillar has contributed in building infrastructure and driving industrial progress in the country.

As Caterpillar Inc, the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines, and diesel-electric locomotives, celebrates its monumental 100th anniversary, Caterpillar team in India takes immense pride in its role in this legacy. With over 50 years of operations in India, Caterpillar has contributed significantly in building infrastructure and driving industrial progress in the country.

For a century, Caterpillar's customer-centric innovation and industry-leading transformation

have helped shape the modern world—including India. From the Bhakra Nangal Dam to the Atal Tunnel and the Purvanchal Expressway, Caterpillar's equipment has been instrumental in building the country's infrastructure since 1930s.

"At Caterpillar, innovation and customer-centricity have always been the cornerstones of our success. As we celebrate 100 years globally and over 50 years in India, we recognise that our people are the driving force behind our achievements," said **Bhuvan Anandakrishnan, India Country Manager and Vice President, Integrated Component Solutions Engineering Division, Caterpillar.**

"Their dedication has not only met India's evolving needs but has also set new benchmarks on a global scale. We remain committed to building a more sustainable, efficient, and technologically advanced future—together, we are shaping the next century of progress."

As India strengthens its position as a key global manufacturer, Caterpillar remains committed to supporting the nation's industrial and infrastructure



Bhuvan Anandakrishnan, India Country Manager and Vice President, Integrated Component Solutions Engineering Division, Caterpillar.

ambitions. With cutting-edge technology and a highly skilled talent, Caterpillar continues to be an integral part of India's growth story.

As part of the celebration, Caterpillar Inc. pledged \$100 million over the next five years globally to help equip the workforce of the future with the skills needed, leveraging technology to meet global market demands as the world undergoes a rapid digital transformation.



C.A.S.H

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A yellow excavator is in the background, and a yellow portable air compressor is in the foreground. The scene is a construction site with dirt and some vegetation in the distance.

Smarter, Greener, Stronger

How cutting-edge technologies, sustainability imperatives, and changing construction demands are reshaping the compressor industry.



Smarter, Greener, Stronger

How cutting-edge technologies, sustainability imperatives, and changing construction demands are reshaping the compressor industry.



In the rapidly evolving construction landscape, where efficiency and sustainability are now non-negotiable, one component has quietly but significantly transformed the way projects operate—the compressor. Once a rudimentary source of pressurised air, today's compressors are smarter, greener, and more integral to construction than ever before. From enabling precision drilling in rugged terrains to powering climate-controlled equipment and site tools, compressors have embraced

innovation like few other construction machines.

Traditionally, compressors were seen as workhorses—loud, heavy-duty machines often running on diesel and prone to efficiency losses due to fixed-speed operation and crude load/unload cycles. But with increased regulatory pressure, rising energy costs, and the drive toward net-zero construction, manufacturers have moved quickly to evolve their compressor lines.

ELGi Equipments, one of India's most renowned compressor manufacturers, has recently

introduced STABILISOR, a globally patented compressed air stabilisation system. "The STABILISOR system employs a first-of-its-kind 'Recirculate and Recover' principle that seamlessly aligns compressor capacity with plant air demand," says



Dr. Jairam Varadaraj,
Managing
Director, ELGi
Equipments

Dr. Jairam Varadaraj, Managing Director, ELGi Equipments. "It reduces energy wastage, extends equipment lifespan, and achieves up

to 15 per cent energy savings in dynamic operational environments.”

The innovation is not just about energy saving—it is about resilience, notes **Dr Venu Madhav, Director Technology, ELGi**. “Our progressive valves and low-pressure recovery zones target flow variability head-on, balancing output precisely where needed and improving reliability across demanding applications.”

Portability meets performance

As construction shifts to remote and rugged geographies, the need for portable, high-performance compressors has skyrocketed. ELGi’s PG 850S-290 is designed for excavator-mounted drilling and delivers dual pressure modes for maximum adaptability. Its anti-vibration mounts, turbo pre-cleaners, and dust-proof controls make it ideal for India’s harsh mining and road construction environments.

“The PG 850S-290 isn’t just a machine—it’s a dependable site partner. With single-side service access, intelligent fuel use, and rugged canopies, it’s purpose-built for continuous uptime.”

Smart factories, smarter air

Innovation isn’t confined to the product level. Atlas Copco has taken a leap forward with its 270,000 sq. ft. manufacturing facility in Pune, which operates on Industry 4.0 principles. From integrating solar energy (80 per cent of its energy needs met by rooftop panels) to advanced quality



Dr Venu Madhav
Director
Technology, ELGi

control backed by Six Sigma methodologies, the plant reflects the brand’s alignment with global sustainability standards.

Thierry Monart, Managing Director, Atlas Copco (India), adds, “Shorter lead times and greater local capacity mean we can now offer a wider range of compressors tailored to India’s unique market needs. We’re not only building compressors; we’re building an ecosystem of innovation and skill in India.”

On the rental front, Atlas Copco is pioneering BOOM models—Build, Own, Operate, Maintain—a game-changer in how industrial clients access compressor technology. “Clients want to stay asset-light. Our specialty rental services, including nitrogen generation and power, meet that demand while maintaining flexibility and uptime.”

In a different corner of the compressor world, Tecumseh has

been pushing boundaries in the refrigeration segment. Its newly launched AL Series—unveiled at ACREX India 2025—is being touted as the world’s most efficient fixed-speed compressor, with energy efficiency improvements of up to 25 per cent.

“This is not incremental

progress—it’s transformational,” says **Ricardo Maciel, President & CEO, Tecumseh Products Company**.

“The AL Series is compact, quiet, and ideal for

light commercial applications. It supports legacy refrigerants as well as eco-friendly R-290, reflecting our dual commitment to compatibility and sustainability.”

Sandeep Chaudhry, MD and CEO, Tecumseh India, is clear: “As energy costs rise and carbon targets tighten,



Sandeep Chaudhry, MD and CEO,
Tecumseh India

5 TRENDS SHAPING THE FUTURE OF COMPRESSORS IN CONSTRUCTION:

- **Electrification:** Rise of e-compressors replacing diesel-based ones for quieter, emission-free sites.
- **IoT-enabled monitoring:** Real-time diagnostics and uptime management via smart controllers.
- **Modular design:** Plug-and-play systems for different use cases (from mining to ice machines).
- **Energy efficiency:** Systems like STABILISOR and AL Series reducing consumption by up to 25 per cent.
- **Rental revolution:** BOOM models and satellite depots are reshaping compressor access and maintenance.



Thierry Monart,
Managing
Director, Atlas
Copco (India)



As construction shifts to remote and rugged geographies, the need for portable, high-performance compressors has skyrocketed.

Indian businesses need equipment that cuts costs and carbon footprints. The AL Series does both.”

Going compressor-free

While most players are making compressors smarter, IDEX Corporation has taken a bold turn—eliminating compressors altogether in some applications. The company’s Cognito 1” electrically operated diaphragm pump is making waves by doing away with compressed air and delivering 60 to 70 per cent energy savings compared to traditional air-operated pumps.

“This is a game-changer for industrial fluid handling,” says **Archana Gundre, Managing Director, FMT Pumps Group, Asia.** “Cognito reduces costs, emissions, and downtime. Plus, it’s IoT-enabled, with real-time diagnostics through COGNITOsmartINSIGHTS.”

The Cognito system embodies what many in the sector now view as the future of industrial support

equipment—intelligent, autonomous, and environmentally aligned.

As construction becomes more data-intensive and climate-sensitive, solutions must stretch beyond air power. Copeland’s integrated platform of variable-speed compressors, drives, and controllers is addressing everything from energy storage to hyperscale data centre cooling.

From heat pumps for green buildings to HVAC systems for electric buses, Copeland’s variable-speed solutions showcase a modular and scalable response to energy and space challenges in construction-adjacent sectors.


Key takeaways

The compressor industry is no longer confined to the background. As construction projects in India get bigger, bolder, and more sustainability-aligned, compressors are stepping into the spotlight with smarter solutions and greener footprints. The synergy of

technological innovation, modular design, and real-time diagnostics is turning these machines into agile, predictive systems that support complex infrastructure without becoming liabilities. As we build India’s next decade of roads, bridges, data centres, and smart cities, one thing is clear: Smart compression isn’t a luxury—it’s a necessity.

What Lies Ahead?

Expect compressors to get more integrated, connected, and autonomous. IoT, AI, and sustainability reporting will define the new KPIs. And with companies like Atlas Copco, ELGi, Tecumseh, IDEX, and Copeland leading the charge, the days of static, noisy, inefficient compressors are truly behind us.

Whether in rental models, onsite integration, or factory settings, smart compressors are emerging as the silent but powerful allies of India’s construction revolution. 



“Our system offers better stability and reliability.”

Dr Jairam Varadaraj, Managing Director, Elgi Equipments, shares insights on the significance of ELGi Stabilisor technology.

How would you assess the current state of the Indian construction equipment industry?

Construction equipment demand depends on infrastructure, which relies on government spending. More infrastructure development drives higher demand. However, this budget appears to have slowed infrastructure spending, so we'll have to wait and see the impact.

What is the unique selling point of this Stabilisor, and how does it stand out from competitors?

I can't speak for the competitors on how they think, but I can tell you how we do. You need to determine whether they think differently. Let me give you an example of an unstated want in simple terms and how we discovered it.

Take the well-known example of shampoo in a sachet. Earlier, shampoo was sold only in bottles by big FMCG brands, costing Rs 200–300. People at the bottom of the pyramid aspired to use shampoo but couldn't afford a full bottle. A shampoo manufacturer in Chennai innovated by introducing shampoo in a Re 1 sachet. This made shampoo accessible to a larger audience and turned out to be more profitable than selling Rs 200 bottles.

Now, what was the discovery. The customer believed they could never afford shampoo. But within that belief lay an opportunity for innovation. Similarly, in our case, customers accepted that they had to pay 3 per cent more for an inverter drive or

suffer inefficiency and instability. We saw an opportunity in this—could we achieve stability and efficiency without the high cost of an inverter? Once we defined this goal, we started looking for solutions that met these seemingly disconnected requirements.

Are my competitors thinking this way? I don't know. They focus on efficiency through electronics and software, which is fine. But this is fundamental science, not just electronics or software. Are they approaching it at the level of science? Maybe, but there's no clear evidence yet, so I can't say for sure.

When is the commercial production of ELGi Stabilisor scheduled to begin, and how long did the research and development process take?

We are ready to introduce the system. We will roll out this technology globally over six to seven months, progressing gradually to train our sales and service engineers worldwide to present it effectively to customers. Manufacturing and the supply chain are fully prepared. R&D took one and a half years for proof of concept and testing, backed by seven to nine years of experiments and failures.

To what extent have you successfully convinced customers about this technology?

The jury is out, and now we wait. We approached two customers. The first refused, saying they already have an IoT device providing real-time data and didn't want to share it with us, fearing higher charges. However, he allowed us four days to test our





solution. Now, he's refusing to return the machine—that's how powerful our demonstration was.

Customers understand energy efficiency, and compressed air is highly inefficient. Any efficiency story resonates quickly. The real challenge is overcoming the bias toward foreign technology. We've introduced a world-first innovation from India, but convincing customers takes effort. That's why we install it on their machines for them to see the results firsthand. The best part? If our machine doesn't work, their system continues running as usual—unlike a VFD, which, if it fails, shuts the machine down.

Do you provide data-backed technical support for lifecycle cost analysis benefits on this Stabilisor?

We haven't tested this technology in portable, engine-driven applications yet; our main focus is industrial use. However, we plan to expand it to portable applications. The savings are significant—not just in energy costs but also in oil life, condensation prevention, and filter longevity, as they remain under

constant pressure. We're documenting these benefits while primarily driving energy efficiency. The product, its components, and technology comply with global standards, including Europe's Lot 31 for variable operating cycles, where we match 70 per cent efficiency.

Is ELGi the first company to introduce this technology in the industrial compressor segment? Do you plan to eventually replace the existing system with Stabilisor?

We are the first to develop this—it's our patent. No other patent is even close. When we conducted a patent search after finalising our idea, the only similar patent was our own previous one. We've worked on recovery and reuse before in a different context, and this is an extension of that. No one else has this.

As for the next steps, absolutely Stabilisor is our future. While we haven't finalised our strategy, we have six stakeholders, including society and the environment. There's internal debate on whether to offer this for free since the cost is low. However, anything given for free is

often undervalued. The challenge is ensuring customers see its worth rather than dismissing it as just another free offering. We need to approach this carefully.

Regarding energy efficiency, the savings are significant. Compared to an inverter drive, which already exists, the key advantage is the lower upfront capital cost. Additionally, inverters fluctuate in speed, causing instability. Our system offers better stability and reliability—if an inverter fails, the compressor stops, but if the Stabilisor malfunctions, the compressor keeps running.

Will this technology completely replace VFDs, and what are the expected cost savings? Can it be retrofitted to compressors from any manufacturer, including competitors?

Regarding VFT, our solution is superior in both capital cost and reliability. If VFD fails, the machine stops, but with our system, that doesn't happen. In retrofitting, we can implement the S2 valve, even on competitor machines, but a full Stabilisor system (S1 and S2) must come from our factory. Even with only S2, stabilisation is ensured, though energy savings will be lower.

What are your capacity expansion plans for the next three to five years, and which countries or regions are your priority for selling this Stabilisor?

Our capacity strategy follows a long-term goal of reaching approximately \$2 billion by 2035–36. We break this into three-year plans, ensuring clarity on targets and required capacity. Our policy is to build capacity one year in advance—so for 2025–26, we will develop capacity for 2026–27.

For the Stabilisor, we will focus on five strategic regions: India, Australia, Europe, the USA, and Southeast Asia. 🏭



Reimagining Automation in Construction

As one of the largest employment generators and contributors to GDP, the construction sector is under increasing pressure to deliver faster, safer, and more sustainable infrastructure. In this high-stakes environment, automation is helping to explore the vast potential of modern-day construction.



On most construction sites, the rhythm of progress is measured in the clang of steel, the hum of machinery, and the sweat of thousands. But increasingly, a new sound is entering the mix, the quiet efficiency of algorithms, the hum of drones overhead, and the precision of robotic arms at work. Behind the concrete and cables, an invisible force is taking hold – data. It is turning blueprints into living simulations, managing fleets of

machines, and helping engineers make decisions before a single brick is laid. This is not the construction of tomorrow; it is the architecture of today; built on code as much as concrete.

To unpack the rise of automation and its growing influence on India's construction sector, FIRST Construction Council, in association with *Construction World*, *Equipment India* and *Infrastructure Today* magazines, hosted a webinar – titled “Reimagining Construction with

Automation” – bringing together a panel of industry and academic leaders. Moderated by **Nitika Krishan**, Technical Director, KPMG India, the session featured **Dr Nikhil Bugalia**, Assistant Professor (Building Technology and Construction Management) Civil Engineering, IIT Madras; **Joy Mukherjee**, Co-Founder & CEO, i3DC Solutions; **K Senou**, Head – Technical Services (Buildings & Factories), L&T Construction; and **Manesh Jain**, Founder & CEO, Flo Mobility.

Laying the foundation for a new era

Opening the discussion, Krishan emphasised the critical role of the construction industry in India's economy, contributing approximately 10 per cent to the GDP and employing over 50 million people. Despite this impressive scale, the sector has long grappled with persistent challenges such as labour shortages, cost overruns, project delays, and safety lapses. It is within this backdrop that automation emerges as a compelling solution; one that promises to not only improve efficiency and productivity but also promote sustainability and safety.

Senou offered a compelling retrospective on how construction processes have evolved over the past decade. "Project delivery timelines are shrinking. What used to take five years must now be completed in three," he explained. In response, L&T introduced a two-pronged approach- 'white-collar automation' for digital workflows and 'blue-collar automation' for on-site mechanisation.

The adoption of Building Information Modelling (BIM) was pivotal, enabling collaborative design, material tracking, and significant reductions in project timelines. "We have also embedded IoT in over 30,000 pieces of equipment, enabling real-time monitoring and smarter resource management," he said. On the ground, L&T championed precast construction and



Nitika Krishan
Technical Director, KPMG India

3D printing, completing 96 flats in just 96 days. "The transformation has been remarkable."

Pockets of progress

Despite these advancements, automation in India's construction sector is far from evenly distributed. Jain pointed out that while digitalisation tools like BIM and project management software have seen broader adoption, hardware-centric automation like robotics and drones remains limited to certain regions and high-profile projects.

"Infrastructure projects and high-rise commercial developments are leading the way," Jain said. "But smaller buildings, especially in less-developed regions, are yet to catch up."

This fragmented growth, according to Jain, is due to the sector's inherent complexity. "Every project is unique. And without a strong foundation of people, processes, and technology, automation won't yield meaningful results," he added.

Mukherjee echoed this sentiment and highlighted another critical issue- the lack of seamless data flow. "We have approached automation in a sporadic way, targeting specific pain points rather than embracing a holistic strategy," he observed.

Mukherjee believes the future lies in centralising data to empower decision-makers. "A single version of truth enables predictive analytics and proactive decision-making.



Dr Nikhil Bugalia
Assistant Professor, Civil Engineering, IIT Madras

That's the real value automation can deliver," he noted. But with data scattered across multiple silos, confidence in its accuracy remains a challenge.

Safety, training, and AI

Dr Bugalia brought an academic perspective, focusing on construction safety and the disparity in practices across small, medium, and large projects. "Smaller construction projects often neglect safety, and automation adoption is far from uniform," he explained.

However, Dr Bugalia pointed to promising innovations, including mobile apps for reporting near-misses and the use of smart cameras for PPE checks.

Yet, he also sounded a note of caution. "These are pilot-scale deployments. For real impact, we need scalable, accessible tools that even small companies can use."

He also emphasised a neglected opportunity, design for safety. "Automation and visualisation tools like BIM should be leveraged not just for execution but for planning safe, efficient workflows from the design stage itself."

When asked about the barriers to automation, Senou laid out a detailed landscape of constraints, operational, financial, and cultural. "In India, we often begin construction while the design is still being developed. That undermines the full benefits of digital tools like BIM," he explained. Further, the high initial costs of mechanised construction, lack of standardisation, and limited R&D investment remain significant obstacles.

"Every architect wants to leave their signature on a project. This lack of standardisation makes it harder to



Joy Mukherjee
Co-Founder & CEO, i3DC Solutions



K Senou
Head - Technical Services, L&T Construction



Manesh Jain
Founder & CEO, Flo Mobility

implement automation at scale,” he noted. Despite these roadblocks, Senou was optimistic, “Even with these challenges, we’re progressing.”

From problem to solution

For Jain, the answer lies in breaking down the problem into smaller, manageable tasks. “We started with automating material movement and are gradually moving to wall finishing, facade cleaning, and more,” he shared. The goal, he explained, is not to replace people but to augment them.

He said, “Let robots handle productivity. Let humans focus on creativity.” This philosophy resonated with the broader discussion around robotics. Jain and other panellists agreed that robots are ideally suited for repetitive, labour-intensive tasks, allowing human workers to channel their energy into improving design, materials, and processes.

Beyond efficiency, automation is becoming a crucial enabler of sustainability. Senou shared how L&T is leveraging digitalisation and smart equipment to reduce fossil fuel consumption and carbon emissions. From electrifying construction equipment to installing solar panels at labour colonies, the company is taking bold steps toward its goal of becoming carbon-neutral by 2040.

“We have even automated our steel processing centres, reducing material waste from 3 per cent to just 0.5 to 1 per cent,” he added. “These are not just cost-saving measures; they are part of our responsibility to the planet.”

Digital twins and the next frontier

Digital twins and collaborative platforms are also expected to redefine how projects are managed. “What we’re all looking for is repeatable success,” said Mukherjee.



As India’s construction industry builds its way into the future, automation is not just helping to lay the bricks; it is drawing the blueprint.

“And digital platforms can help identify what’s falling through the cracks before it becomes a problem.”

These tools also offer a pathway toward standardisation, data-driven planning, and seamless collaboration among stakeholders. “We expect a major transformation in five years,” he said. “From asset management to real-time planning, digital tech will be at the heart of it.”

As the conversation shifted toward the future, the panellists returned to the role of humans in an increasingly automated environment. Jain addressed concerns about job losses with a pragmatic view. “This isn’t about replacing people. It is about helping them do more,” he said. “The industry is already running behind schedule. Robots can help us catch up.”

He predicted that in five years, with the right human-machine collaboration, the same workforce could deliver three times as many projects.

Rethinking roles and bridging gaps

The role of the traditional project manager is also set to evolve. With AI, cloud computing, and digital dashboards, managers can focus more on strategic decision-making and less on manual coordination. “They will have more time for quality work and less for firefighting,” Mukherjee observed.

Dr Bugalia, however, cautioned against over-reliance on opaque AI systems. “Decisions affecting worker

safety must remain transparent and explainable,” he said.

“Otherwise, we risk losing sight of the human impact.”

The discussion also turned to skill development. Dr Bugalia acknowledged that institutions like IITs are now more focused on research than workforce development, and that very few civil engineers continue in their core field. “We have shifted from producing skilled labour to nurturing innovators and entrepreneurs,” he said.

In contrast, L&T has taken a more hands-on approach. “We run multiple training centres across India, from unskilled workers to MTech programs in collaboration with IITs,” said Senou. “We’re not just building projects; we’re building people.”

Vision for the future

As the webinar drew to a close, Krishan summarised the collective insight, “The future of construction isn’t just about adopting new technologies; it is about reimagining how we build, design, and manage.”

The panel agreed that automation in construction isn’t a passing trend. It is a movement that holds the potential to deliver safer, smarter, and more sustainable structures, redefine job roles, and unlock new avenues for growth. As India’s construction industry builds its way into the future, automation is not just helping to lay the bricks; it is drawing the blueprint.



Petronas Lubricants, Quaker Houghton Tie-up for Industrial Solutions

Petronas Lubricants India (PLIPL) and Quaker Houghton have announced a strategic partnership that will strengthen both companies' commitment and engagement across key industrial sectors across India and Malaysia. The strategic partnership leverages the product portfolios and geographic market position of both companies to provide an expanded range of industrial solutions for customers. Beginning in the second

quarter of 2025, Quaker Houghton will offer Petronas Lubricants India's range of high-performance maintenance lubricants and industrial fluids to steel mill producers.

Binu Chandy, CEO, Petronas Lubricants India, commented on the partnership, "With the evolving state of industrial operations creating demand for best-in-class fluids, we are excited to share our expertise in maintenance fluids with the industrial operations



here. This partnership is a significant milestone for us, as we see that Quaker shares our commitment to technical excellence and is equally dedicated to providing world-class industrial solutions to customers."

Polymatech to Set Up Semiconductor Plant in Chhattisgarh

India's first semiconductor chip manufacturer, Polymatech Electronics, will establish a Semiconductor Chips and Advanced Packaging Unit in Chhattisgarh's Nava Raipur.

The Chennai-based company will set up a semiconductor plant focused on Gallium Nitride (GaN) technology, powering 5G and 6G advancements. **Chief Minister Vishnu Deo Sai** will conduct the 'Bhoomipujan' and lay the foundation stone on April 11. The plant, with an investment of Rs 1.14 billion, is expected to create significant employment opportunities in the state.

Highlighting the investment



potential in the semiconductor and electronics sector, CM Sai stated, "The state is ready to offer policy support, tax incentives, infrastructure development, and special facilities to the semiconductor sector under the Make in India and Digital India initiatives."

Atlas Copco Unveils Innovation Centre

Atlas Copco Tools and Assembly Systems has inaugurated its first Smart Factory Innovation Centre in Pune. This facility aims to drive Industry 4.0 adoption by offering cutting-edge smart manufacturing and automation solutions across industries such as automotive, aerospace, electronics, heavy machinery, and general manufacturing.

The Innovation Centre provides live demonstrations of automated tightening and dispensing tech, error-proofing solutions, and software-driven manufacturing optimisations. The centre also highlights Smart Integrated Assembly solutions.

India Sets Target of \$100 Bn in Auto Components Exports

The Indian auto component industry has taken an ambitious target of reaching \$100 billion in the next seven-eight years (currently at \$21.2 billion in FY24) in exports. For achieving this, the country needs to position itself as a hub for both classic and emerging auto components, Automotive Component Manufacturers Association of India

(ACMA) said.

The road to \$100-billion exports will hinge on two critical factors — a 2-3x growth in classical vehicle components (ICE and carry-over components to EVs) and building an exports-ready foundation in electrification and electronification opportunities, the latest report by Boston Consulting Group (BCG) and ACMA said.



TotalEnergies and Cihan Partner for Lubricants Supply



Cihan Group, based in Erbil, and TotalEnergies Marketing Middle East have officially entered into a new strategic partnership for the supply of lubricants in Iraq.

This collaboration marks a key milestone in TotalEnergies' ongoing growth and expansion within the Iraqi market.

The signing ceremony was attended by senior representatives from both organizations, highlighting the importance of this alliance in strengthening their presence and offering high-quality lubricant solutions to customers across the country.

Cummins Inaugurates Advanced Manufacturing Facility in Phaltan

Cummins has officially inaugurated its new state-of-the-art manufacturing facility at the Cummins Megasite in Phaltan, Maharashtra. This advanced plant will focus on the production of e-heaters for global markets—an essential component of aftertreatment systems that help reduce emissions and enable compliance with evolving global emission regulations.

Developed through Cummins' robust research and development capabilities, these e-heaters are engineered to:

- Enhance emission control under varying operating conditions
- Support both on-highway and off-highway engines
- Provide reliable and fuel-efficient aftertreatment solutions

The facility was inaugurated in the presence of key members of Cummins'



global and India leadership, underscoring its strategic importance within the company's global manufacturing ecosystem.

With this investment, Cummins is further strengthening India's position as a hub for advanced technology manufacturing. The initiative also aligns with the Government of India's Viksit Bharat vision, reinforcing Cummins' commitment to delivering cleaner, more sustainable technologies worldwide.

Gulf Oil Hosts Analyst Plant Visit at Chennai Facility

Gulf Oil successfully hosted a one-day "Analyst Plant Visit" at its cutting-edge manufacturing facility in Chennai, offering key stakeholders a behind-the-scenes look into the company's innovation-driven operations.

The event featured an in-depth tour of Gulf Oil's world-class lubricants and AdBlue production units, showcasing the scale, precision, and advanced technology embedded in its manufacturing processes. Attendees also explored the company's Global R&D Centre, where cutting-edge developments in performance and product innovation are realized.

The visit concluded with an interactive session led by Gulf Oil's management team, providing a platform for open dialogue, strategic



insights, and a shared vision for the future.

This initiative reflects Gulf Oil's commitment to transparency, stakeholder engagement, and continuous innovation. As the company continues to push boundaries and lead with purpose, Gulf remains dedicated to building a brand that is not only resilient but positioned to lead in the evolving energy and lubricants landscape.

Tyrecycle Opens OTR Plant

Tyrecycle's new facility at Port Headland will have the capacity to process over 30,000 tonnes of OTR mining tyres annually, providing an efficient mine-to-processing service, and enhancing sustainability credentials for operators in mining.

Tyrecycle CEO, Jim Fairweather, said opening the facility in such a busy mining area will make it easier than ever to deliver sustainable outcomes for end-of-life mining tyres and conveyor belts. Fairweather said; "As a market leader we are proud to see this first facility of its kind in the country up and running, revolutionising OTR mining tyre recycling will ensure that these massive tyres are no longer seen as a disposal challenge but instead a resource for the achievement of better sustainable outcomes."



Liebherr Dozer Gets Trimble Earthworks

Liebherr has announced a factory-installed Trimble Ready kit for its largest dozer, the PR 776, making it easier for customers to integrate the Trimble Earthworks grade control platform directly into the machine.

This addition is designed to reduce installation complexity and cost while enhancing operator efficiency. The Trimble Earthworks-ready base kit includes mounting hardware, brackets, and an integrated wiring harness.

The PR 776, introduced in 2022, is the world's largest hydrostatically driven dozer. It is powered by a Liebherr 12-cylinder diesel engine producing 768 horsepower. The machine supports a blade capacity ranging from 24.2 cubic yards (semi-U blade) to 28.8 cubic yards (U-blade).

"By offering a Trimble Ready option, we're providing customers with a solution that allows quick and seamless integration of construction



technology," said Nico Schuchter, Product Manager at Liebherr.

Trimble's Vice President for Civil Construction Field Systems, Scott Crozier, added, "This deeper on-machine integration simplifies installation and maximises productivity for Liebherr customers, helping accelerate their return on investment."

The factory-fitted Trimble kit for the PR 776 Generation 8 bulldozer

is available globally. Customers can access installation, training, and support via SITECH dealers and select Trimble resellers.

This development aligns with a broader industry trend where machine control systems are being integrated at the factory level, reducing aftermarket installation hassles and ensuring contractors can benefit from increased efficiency and precision right from day one.

Volvo's Electric Articulated Dump Trucks

Volvo Construction Equipment has revealed the world's first battery-powered articulated dump trucks entering serial production — the A30 Electric and A40 Electric, with payload capacities of 29 and 39 metric tonnes, respectively.

According to Volvo, the electric models deliver performance on par with their diesel counterparts but with significantly fewer emissions, reduced noise, and lower operator vibration. They also incorporate enhancements from Volvo's next-generation articulated hauler lineup.

The trucks boast runtimes of 4 to 4.5 hours per charge under normal conditions, with up to



7 hours achievable in light-duty operations. Charging from 20 per cent to 80 per cent takes around one hour using a fast charger. Operators can monitor charging status, machine hours, and energy consumption using the My Equipment app.

Volvo estimates that carbon dioxide emissions will be reduced

by 84 per cent for the A30 Electric and 90 per cent for the A40 Electric across the vehicles' lifespans, compared to diesel versions.

The hauliers will be launched on a limited basis in Europe next year, with broader production planned thereafter. This launch marks a significant step in Volvo's efforts to decarbonise construction sites.

"These electric haulers combine the performance our customers expect with environmentally responsible technology," said Mats Sköldbberg, Head of Technology at Volvo CE. "We are proud to introduce the world's first battery-electric articulated trucks of their size class, setting a new benchmark in sustainable heavy equipment."

Komatsu Introduces Next-Gen PC220LCi-12 Excavator

Komatsu has debuted its next-generation 22-tonne PC220LCi-12 excavator featuring the company's intelligent Machine Control (iMC) 3.0 system. Designed for advanced productivity and fuel efficiency, this model represents a significant upgrade for mid-size excavator users.

The iMC 3.0 platform introduces several new features, including 3D boundary control to avoid obstacle strikes, auto swing for semi-autonomous truck loading, and functions that simplify trenching. It is operated via a new 10-inch monitor with intuitive 3D graphics.

The PC220LCi-12 has a bucket capacity of 1.4 cubic yards and is

powered by a high-torque, 170-horsepower Komatsu engine. Combined with an electronically controlled hydraulic system, fuel consumption is reduced by 18 per cent compared to the previous model. Hydraulic improvements also deliver a 7 per cent increase in arm and bucket forces. The new P+ operating mode boosts productivity by 18 per cent while improving fuel efficiency by 20 per cent.

Inside the redesigned cab, operators benefit from 30 per cent more legroom, enhanced lower-right visibility (improved by 50 per cent), and comfort features such as



a premium seat, joystick steering, and overhead cooling vents.

Komatsu's new PC220LCi-12 exemplifies the shift towards smarter, more efficient excavators. By integrating machine intelligence directly into the equipment, the company aims to boost productivity while reducing emissions and operational costs. The excavator is expected to be rolled out across various global markets in 2025.

Takeuchi Expands Excavators' Electric Line

Takeuchi has expanded its electric mini excavator line-up with two new prototype models: the ultra-compact TB10e and the heavy-duty TB35e.

The TB10e is built for tight job sites, weighing just 2,600 pounds. It delivers a dig depth of 5.8 feet and a reach of 10.8 feet, with a bucket breakout force of 2,518 lb-ft. With a slew speed of 9.6 rpm and travel speeds between 1.2–2.4 mph, it provides up to two hours of working time in Standard mode and four hours in Eco mode.

Its external charger supports three-phase power for rapid charging between 408V and 552V, while the onboard single-phase charger is compatible with 95V–265V systems. Full charge time is approximately three hours (external) or 4.5 hours (onboard).

The TB35e, Takeuchi's largest electric mini excavator at 8,730

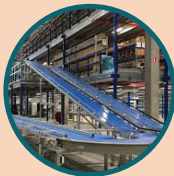


pounds, targets more demanding applications. It offers a maximum dig depth of 10.5 feet, reach of 17.8 feet, and bucket breakout force of 6,092 lb-ft. The TB35e runs for up to four hours in Eco mode and recharges in four hours with a 400V 3-phase charger, or seven hours using

the onboard version.

It also supports auxiliary flows of up to 17 gallons per minute, making it compatible with a wide range of attachments. These additions reinforce Takeuchi's commitment to electrifying construction machinery without compromising performance.

CONVEYORS



1 | Punjab State Power Corporation

Details: Tenders are invited for procurement of conveyor belts.

Submission date: 08 May 2025 | **Location:** Lehra Mohabbat, Punjab

Contact: Dy.Chief Engineer/HQ, For Chief Engineer/O&M GHTP, Lehra Mohabbat, Punjab.

Mob: 09646120640

2 | South Central Railway

Details: Tenders are invited for Supply of waste conveyor belts, part no. 1220mm widex630/4x5+1.5m24 (11-12mm thick) tensile strength 630 kn

Submission date: 28 May 2025 | **Location:** Secunderabad, Telangana

Contact: Principal Chief Material Manager, Secunderabad-500071, Telangana

CRANES



3 | Arcelormittal Nippon Steel India

Details: Tenders are invited for supply and fixing of crane DSL.

Submission date: 20 May 2025 | **Location:** Jhajjar, Haryana

Contact: Roopesh Kumar, 43 K.M. Stone, Delhi-Rohtak Road,,Rohad, Tehsil Bahadurgarh, Dist Jhajjar-124501,Haryana. Email: roopesh.kumar@amns.in

4 | North Western Railway

Details: Tenders are invited for Supply of road mobile crane articulating type 10 tonne.

Submission date: 09 May 2025

Location: Ajmer, Rajasthan

Contact: Assistant Material Manager, Ajmer, Rajasthan

5 | Northern Railway

Details: Tenders are invited for EOT crane 5 tonne.

Submission date: 15 May 2025

Location: Lucknow, Uttar Pradesh

Contact: Principal Chief Materials Manager, Lucknow, Uttar Pradesh

6 | Uttar Pradesh Jal Vidyut Nigam

Details: Tenders are invited for repairing and overhauling of one 16 tonne electric overhead traveling (EOT) crane of Sheetla Power House.

Submission Date: 09 May 2025

Location: Lalitpur, Uttar Pradesh

Contact: Executive Engineer, EGD Matatila Power house, Distt Lalitpur-284136, Uttar Pradesh

7 | Eastern Railway

Details: Tenders are invited for supply, installation and commissioning of diesel hyd. road mobile crane, etc.

Submission Date: 19 May 2025

Location: Maldah, West Bengal

Contact: Principal Chief Materials Manager, Kolkata, West Bengal

DUMPERS



8 | Urban Development Department Chhattisgarh

Details: Tenders are invited for Supply of hopper tipper dumper for garbage (q2).

Submission date: 12 May 2025

Location: Bankimongra, Chhattisgarh

Contact: CMO, Nagar Palika Bankimongra, Bankimongra, District Korba, Chhattisgarh

9 | Urban Development Department Chhattisgarh

Details: Tenders are invited for Supply of hopper tipper dumper for garbage (q2).

Submission date: 12 May 2025

Location: Bankimongra, Chhattisgarh

Contact: CMO, Nagar Palika Bankimongra, Bankimongra, District Korba, Chhattisgarh

10 | Urban Administration and Development

Details: Tenders are invited for Rent for vehicles for hire to be used for office work under the year 2025-26 are tractor-trolley, pocland, dumper, backhole machine (JCB machine), crane, large 41 feet long Pocland machine for removing weeds.

Submission date: 16 May 2025

Location: Neemuch, Madhya Pradesh

Tender Value (Rs): 30,00,000

Contact: CMO, Neemuch-Nagar Palika, Neemuch, Madhya Pradesh

EARTH MOVERS**11 | Central Railway**

Details: Tenders are invited for Hiring of earth moving equipments, material handling equipments cranes (per hour basis)

Submission date: 12 May 2025 | **Location:** Jalgaon, Maharashtra

Tender Value (Rs): 8,80,575

Contact: CWM, Electric Loco Workshop, Bhusawal, Jalgaon-425201, Maharashtra

12 | Ministry Of Defence

Details: Tenders are invited for Hiring of earth moving equipment, material handling equipment and cranes (per hour basis) - as per buyer's requirement; hiring of super suction machine for cleaning and desilting of main drains in Sadar Bazar area of Jalandhar Cant.

Submission date: 07 May 2025

Location: Jalandhar, Punjab

Tender value (Rs): 40,00,000

Contact: Chief Executive Officer, Cantonment Board Jalandhar, Jalandhar, Punjab

EXCAVATORS**13 | Indian Army**

Details: Tenders are invited for supply of crawler hydraulic Excavator (V2) (Q2)

Submission date: 27 May 2025

Location: Jammu, Jammu and Kashmir

Contact: GOC-IN-C, Northern Command, Department of Military Affairs, Jammu, Jammu and Kashmir

FORKLIFTS**14 | Western Railway**

Details: Tenders are invited for Supply of diesel forklift capacity 03 tonne.

Submission date: 19 May 2025

Location: Mumbai, Maharashtra

Contact: Principal Chief Materials Manager, Churchgate, Mumbai, Maharashtra

LOADERS**15 | Indian Army**

Details: Tenders are invited for the Supply of e rickshaw loader

Submission date: 07 May 2025 | **Location:** Belgaum, Karnataka

Contact: Belgaum, Karnataka

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VG Sakthikumar

It was a true privilege to meet the Consul General of India in Frankfurt, Mubarak Bawa Syed and engage in a meaningful conversation around topics close to my heart—sustainable construction, skilling, employment opportunities, R&D, CSR, and the SCHWING Stetter growth journey in India. He appreciated our efforts in promoting Make In India, Ease of Doing Business, Invest In India, and our commitment to supporting Mittelstand construction product companies entering the Indian market. Grateful for the warmth, vision, and forward-thinking approach of such a dynamic leader representing India on the global stage. Conversations like these remind me of the power of collaboration between industry and diplomacy to shape a better future.

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1,36,000 units; \$9.5 billion in 2024; moving towards 2,50,000 units and \$25 billion in 2030—in six years a 2.5 times growth—what could this be? This is the impressive growth of the construction equipment industry in India as it accelerates to become the second largest CE Market in the world. As the industry looks to increase the level of localisation in India from 50 per cent to 70 per cent by 2030, it offers immense potential for the European component suppliers. The “India Day” session at bauma organised by VDMA India; VDMA along with ICEMA highlighted the infrastructure growth and development of the construction equipment industry in the fastest growing major economy in the world.



Sany India

Sany India proudly inaugurated its new COCO office in Kankerkhara, Meerut, UP, on April 7, 2025. The event was honoured by the presence of our COO, Sanjay Saxena, Amit Gupta, Excavator RM and Sanjay Panwar, RSM, alongside the dedicated Sany team, valued customers, and esteemed financiers. This expansion marks a significant step in our commitment to serving you better and fostering strong, lasting partnerships in the region. We look forward to contributing to Meerut's growth and success.



LiuGong India

LiuGong India welcomes Aditya Infraequip LLP as our dealer partner for Saurashtra offering LiuGong India's full product portfolio. We look forward for creating new success stories in the region.



Volvo Construction Equipment

We're partnering with Unicontrol to integrate 3D machine control tech directly into Volvo Co-Pilot—no extra monitors or hardware needed. This ensures greater efficiency, flexibility, and simplicity for our customers. Launching in select European markets this year.



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