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SANY ROAD CONSTRUCTION MACHINES AT BAUMA 2025

SANY presents the new STR27C tandem roller, STR50E electric roller, SAP30C asphalt paver, and SCM500E cold milling machine at bauma 2025

Munich, February 2025 – As one of the world's leading manufacturers of construction machinery, SANY is unveiling four groundbreaking innovations in road construction at this year's bauma in Munich: the STR27C tandem roller, STR50E electric roller, the SAP30C asphalt paver, and the SCM cold milling machine.

Modern road construction machines play a crucial role in building durable and safe infrastructure. They must not only perform efficiently but also deliver precise results to meet high-quality standards. Key aspects such as compaction, material distribution, and energy efficiency are essential for optimal road construction performance. These factors were central to SANY's development of the new machines, which also prioritise operator comfort, safety, and environmental sustainability.

STR27C – The next generation of tandem rollers

The STR27C, successor to the STR30, will be available for purchase starting from June 2025. It features innovative high-frequency vibration technology and a range of enhancements for faster, more efficient, and comfortable compaction:

- **Efficient operation:** With a high-frequency vibration of 67 Hz and a compaction speed of 8 km/h, asphalt is compacted precisely and quickly. A uniform amplitude deviation of $\leq 5\%$ ensures a smooth and high-quality road surface.
- **Operational comfort:** An ergonomically designed operator station with ample legroom, excellent all-round visibility, and an intuitive touchscreen control panel enhances the working experience. The $\pm 20^\circ$ rotation control system and a lateral shift of 316 mm make roller operation more flexible and precise.
- **Advanced technology:** The third-generation electronic drive control enables smooth starts and stops without jolts. The STR27C also features an optimised energy-saving system that perfectly synchronises the engine and pump to minimise fuel consumption.
- **Flexibility and manoeuvrability:** A particularly small inner turning radius, stronger steering torque, and an impressive climbing ability of 40% make the STR27C ideal for demanding job sites.

STR50E Electric Roller – The first fully electric 5-tonne roller: Quiet, emission-free, and efficient

With the STR50E, SANY has developed the industry's first fully electric 5-tonne roller, setting new standards in emission-free compaction technology. Its innovative electric drive ensures high efficiency, extended operating time, and an environmentally friendly working method. Flexible charging options, including a fast-charging function, significantly reduce charging time, maximising productivity on construction sites. The STR50E is expected to be available by 2026.

- **Efficient operation:** The STR50E offers an operating time of over seven hours per charge and can be charged with a 220V power supply. The high-performance electric drive optimises energy consumption, ensuring uniform, powerful compaction. A fast-charging function allows recharging enough power for four hours of operation within just 30 minutes.
- **Operational comfort:** Independent control of the front and rear drums ensures smooth operation and precise manoeuvrability. A precise battery cooling system and electronically controlled fans minimise noise and extend battery life. The adjustable, rotating operator's seat provides optimal visibility and maximum comfort, particularly useful for confined spaces or frequent directional changes.
- **Modern drive technology:** The STR50E employs an electric vibration drive with a continuously adjustable vibration frequency. The high-performance electric motor achieves energy efficiency of up to 95%, reducing energy consumption by 30%. An intelligent energy recovery system stores energy during braking, extending battery life.
- **Energy-efficient and low-maintenance technology:** The STR50E is equipped with a powerful 60 kWh battery, enabling six to eight hours of operation. Two battery options (100 kWh or 134 kWh) are available for different applications. The intelligent battery management system (BMS) prevents overheating, overcharging, and deep discharge, extending battery lifespan. The high energy efficiency of the electric motor reduces energy consumption by up to 30%. Since the machine is fully electric, fuel costs and maintenance-intensive mechanical components are eliminated. The standardised DC fast-charging port enables rapid recharging and is compatible with most vehicle charging stations.
- **Mobility and flexibility:** With a compact design, the STR50E is ideal for urban construction sites. It boasts a climbing ability of up to 30% and an exceptionally small inner turning radius of just 2,798 mm. The crab-walk function enhances manoeuvrability on challenging sites.
- **Optional features:**
 - Advanced lighting system for better visibility
 - Improved control interfaces for enhanced operation
 - Camera systems for maximum visibility and safety

SCM 500 Cold Milling Machine – Powerful and efficient

The SCM 500E from SANY stands out for its high efficiency and performance, making it ideal for various surface applications and adaptable to diverse job site conditions. It will be available by 2026.

- **Efficient operation:** The powerful electric motor of the SCM 500E ensures maximum efficiency in material removal. Precise control delivers consistent and high-quality milling results.
- **Operational comfort:** A user-friendly control panel and an ergonomically designed operator station enhance ease of use.
- **Modern milling technology:** Equipped with an advanced milling head, the SCM 500E ensures uniform milling depth, optimal results, and efficient processing. Its lateral discharge technology directs milled material efficiently,

reducing clean-up costs. The wheel arrangement prevents the machine from running over milled debris, significantly improving surface evenness.

- **Intelligent control and energy-efficient technology:** Advanced control systems automatically adjust milling depth, optimise machine performance, and reduce wear. The LiFePO4 battery ensures sustainable and emission-free operation.
- **Mobility and flexibility:** The compact and agile design of the SCM 500E enables effective operation even in confined construction sites.
- **Optional equipment:**
 - Customisation options for maximum adaptability
 - Fine milling drums (0.2 m, 0.4 m, 0.5 m) for precision work
 - Remote control for safe and easy operation
 - 134 kWh battery for extended, emission-free operation

SAP30C – The compact and powerful asphalt paver

SANY also introduces the new SAP30C asphalt paver, a state-of-the-art machine for precise and efficient asphalt paving. Already available on the market, it offers the following advantages:

- **Maximum efficiency:** Thanks to an electronically controlled paving system, the SAP30C ensures uniform material distribution and superior surface quality. Its optimised compaction performance delivers smooth and consistent results on various road surfaces.
- **Flexibility and adaptability:** With a variable working width of 1.2 m to 3.2 m, the SAP30C can be used in diverse applications without additional attachments. Side shifting and skid-steering capabilities enhance manoeuvrability in tight spaces.
- **Cutting-edge technology:** The SAP30C features a high-frequency vibration system for precise compaction results. A hydraulically driven generator ensures reliable operation with minimal maintenance.

With these innovations, SANY underscores its position as a technology leader in road construction. The STR27C tandem roller and SAP30C asphalt paver offer the perfect blend of performance, comfort, and efficiency, while the STR50E and SCM500 usher in a new era of electrically powered machines. Experience these highlights live at bauma 2025 at our booth FN 619!

Images:



Image 1: *The SANY STR27, with its modern design and reduced weight, succeeds the STR30.*

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Image 2: *The SANY STR50 is the first electric roller in the 5-ton tandem roller segment.*



Image 3: SANY SAP30 – SANY's entry into the paver segment.

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Image 4: SANY SCM500E, the electric cold milling machine.

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About SANY

SANY Europe is a company of SANY Heavy Industry from Changsha. This is one of the three largest manufacturers of construction machinery in the world, with a turnover - the SANY Group - of around 17.9 billion euros in 2024. Founded in 1989, the company offers a broad product portfolio with over 18 product families and more than 500 machine models. This is developed, realised and sold by almost 60,000 employees worldwide.

SANY's European site is in Bedburg, near Cologne, since 2011. The site employs staff in Sales, Service and in adapting products for the European market.

SANY Europe's portfolio focuses predominantly on excavators, port-machinery, cranes and road-machinery.

Integration Putzmeister

The globally renowned Putzmeister brand, headquartered in Aichtal near Stuttgart, is also part of SANY Heavy Industry. Since 01.11.2024, Putzmeister has taken over the sales activities for SANY construction machinery products in the DACH region. Putzmeister is thus following its global expansion strategy, having already taken over sales for SANY products in the Iberian region, Turkey and Australia have already been taken over for SANY products.