

Unplug and Play: introducing Yanmar CE's all-new electric trio

Staying true to the pioneering spirit that has driven Yanmar for over a century, Yanmar Compact Equipment EMEA proudly unveils its electric construction equipment at Intermat 2024; aligning its sustainability objectives and meeting the market demands for eco-conscious solutions.

Yanmar Compact Equipment (Yanmar CE) has launched its future-ready series: a trio that includes fully electric wheel loader, mini-excavator, and tracked carrier, which together are the vanguard of the construction sites of tomorrow. The zero emission and cordless-in-use V8e, SV17e and C08e are tailored to meet the diverse demands of modern and sustainable construction projects and indoor work environments – without compromising on power and performance.

The new electric range matches the output of Yanmar CE's renowned internal combustion engine (ICE) compact equipment, ensuring seamless integration into a broad scope of applications. From landscaping and utility to urban and indoor construction, operators can be sure that these machines are ready to tackle even the toughest demands, all while exceeding the most stringent emission legislations.

SV17e

The SV17e Mini-Excavator (1,955 kg operating weight (OW)), seamlessly combines environmental responsibility with top-tier functionality. Powered by a robust 18.3 kWh battery, it features two operating modes to optimise battery life and adapt to varying project demands. Demonstrating exceptional performance, it showcases formidable digging forces of 9.9 kN and 8.9 kN from its short and long arms, respectively, and is further bolstered by a potent 16 kN bucket force.

Ideal for compact spaces, the SV17e measures 2.33 meters in height and has a variable width of 0.98 to 1.32 meters. Its nearly silent operation minimises auditory disturbance, enhancing the comfort for machine operators and making it particularly suitable for working indoors, as well as in environmentally sensitive or noise-restricted areas. Additionally, zero emissions guarantee a more operator and eco-friendly workspace. The SV17e's capabilities are enhanced by a maximum digging depth of 2.62 meters, a reach of up to 4 meters, and a maximum dumping height of 2.675 meters. Enhanced features that include an LCD interface, and an optional fast charger for quick replenishment with a slow charging time (20-80% SOC) of approximately 4 hours and a fast charging time (20-80% SOC) of about 2 hours.

V8e

The new V8e Wheel Loader (4,500 kg OW) offers a fusion of power and sustainability, designed to meet the demanding requirements of modern construction environments. The



unit boasts four working modes (Bucket, Fork, Eco, Power) to fit the operator's needs like a glove, combined with a bucket volume between 0.8 and 1.2 cubic meters and with an impressive payload on forks of 1,890kg to maximise performance. It is further coupled with a high-capacity battery (available in standard 39.9 kWh with an option to upgrade to 53.2 kWh), provides up to 4.2 hours of continuous operation in bucket mode. The loader is further equipped with a synchronous motor offering 22 kW rated and 30 kW peak power, enhancing its efficiency in various operations. The V8e also comes with best-in-class flexibility offering a full working day autonomy, and additional onboard charging power reducing by half the charging time, all contributing to operator peace of mind.

Prioritising operator safety and comfort, V8e features a newly designed cabin with increased visibility and comfort; an adjustable armrest and steering column, heated seat, and both LED headlights and LED work lights for optimal visibility. For charging convenience, the unit also comes with an on-board fast charger (11 kW standard, upgradeable to 22 kW) and includes the most common adapters, allowing for easy integration into existing power infrastructures. This robust wheel loader combines Yanmar's Smart Control technology, including four work modes, with the efficiency of an all-wheel electric drive, setting new standards for both performance and environmental responsibility.

C08e

Yanmar's C08e Tracked Carrier (730 - 880 kg OW) is designed to excel across even the toughest terrains. It combines a high-performance electric motor that provides 5.5 kW rated and 6.5 kW peak power, with a hydrostatic transmission to ensure smooth handling and operation on inclinations up to 20°. Its haul body can carry between 0.34 to 0.42 cubic meters, tailored for high-demand tasks. The vehicle operates on a 10.4 kWh battery, featuring three selectable working modes—eco, performance, and high performance—to optimise energy use and extend battery life up to three hours in the most demanding mode.

The carrier offers a half working day autonomy, depending on the application. For charging, the C08e uses a standard 3.3 kW off-board charger, compatible with a P17 blue plug for grid connection and a REMA socket for direct machine linkage, which fully recharges the battery from 20% to 80% capacity in just 3.5 hours. With additional features like automatic electric motor shutdown and optional vessel configurations, the C08e sets a new standard for electric utility vehicles, combining robust functionality with environmental consciousness.

Built with You in mind

At the core of Yanmar Compact Equipment's design philosophy is an operator-centric approach, embodied by its 'Building with You' tagline. This philosophy drives the development of products that not only enhance the operator experience, but also empower customers to thrive through a sustainable approach to construction and development. Yanmar upholds its foundational principles by proactively addressing contemporary social and environmental challenges; a commitment that extends beyond immediate concerns, aiming to improve the lives within the communities it serves.

The electric product launch is a testament to this dedication, falling in step with the wider Group's commitment to the Yanmar Green Challenge 2050 – a bold initiative that outlines the company's pledge to achieving net-zero greenhouse gas emissions by the mid-21st century.



This is embodied in Yanmar CE's dedication to lowering emissions from its operations, augment resource efficiency, and foster sustainable practices across its customer and partner networks.

Yanmar focuses on more than just meeting the demands of the future; they are dedicated to creating it. For those who are ready to build a legacy that honours the earth, and to shape landscapes while safeguarding the environment, the new Unplugged range is ready to empower that vision. Yanmar invites you to experience first-hand how innovation and sustainability can converge in powerful harmony. Are you ready to unplug and play?

For more information on the Unplugged range: <https://youtu.be/nHTUvtVmd8o>.