

ROM AND BRIGGS & STRATTON DEVELOP THE WORLD'S FIRST ALL-ELECTRIC TOILET SERVICING MACHINE

With over 40 years of experience, ROM bv is the global leader in high-pressure and vacuum technology and a specialist in toilet servicing and sewer cleaning equipment. Part of the KOKS group, ROM works with a network of more than 50 specialized partners in more than 40 countries, delivering to municipalities and sewer servicing & maintenance companies, with thousands of its units in use around the globe, from the Sahara to the North Pole. Resistant to dirt and mud, and tough enough to work in the most demanding environments, ROM's machines include sewer cleaning trailers, toilet service installations for cleaning mobile toilets, high-pressure sewer machines built into vans, and inspection systems.

With a focus on new and innovative solutions, the development of the ROM e-FLEXI 1100/750 was a natural step for ROM, with its dedicated engineering department and state-of-the-art factories. Heightened attention on corporate social responsibility and sustainable procurement meant that demand for the world's first all-electric toilet servicing machine would be increasing. ROM wanted to offer its customers an ecologically friendly solution that would reduce carbon footprints and support the positive move towards zero-emission zones.

Finding the right battery partner was a key part of the product development process, as ROM prides itself on reliable machines that can withstand the most extreme environments. The battery used to power the ROM e-FLEXI needed to meet these demands without compromising on power or running times. With all of this in mind, ROM identified Briggs & Stratton with its Vanguard® commercial power solutions as the right supplier. Working together, the two companies selected the 3.5kWh lithium-ion battery pack as standard, with integrated battery management and safe charging system, and the 5kWh and 7kWh options for longer runtime requirements.

Erik van Walsum, R&D Manager at ROM bv comments, "Cities are increasingly establishing emission-free zones, where petrol, diesel and gas equipment is no longer permitted, and noise levels are also under review. We wanted to develop a toilet-servicing machine that could answer all these considerations without compromising on performance or reliability. Thanks to the Vanguard lithium-ion batteries, the ROM e-FLEXI allows our customers to work as they always have, but quieter and without harmful emissions."

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THE VANGUARD BATTERY PACKS DELIVER A HIGHER ENERGY DENSITY, FASTER CHARGING AND MAINTENANCE-FREE POWER, PLUS THEY CAN BE CHARGED THROUGH ANY NORMAL 230V / 115V SOCKET, WHICH MAKES THEM VERY USER-FRIENDLY FOR OUR CUSTOMERS.

Erik van Walsum
R&D Manager at ROM

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As part of the development process, ROM carried out extensive field tests with Boels Rental, one of Europe's largest specialists in general and specialist equipment rental.

As Nick Vaasen, Manager Sanitation Services explains:

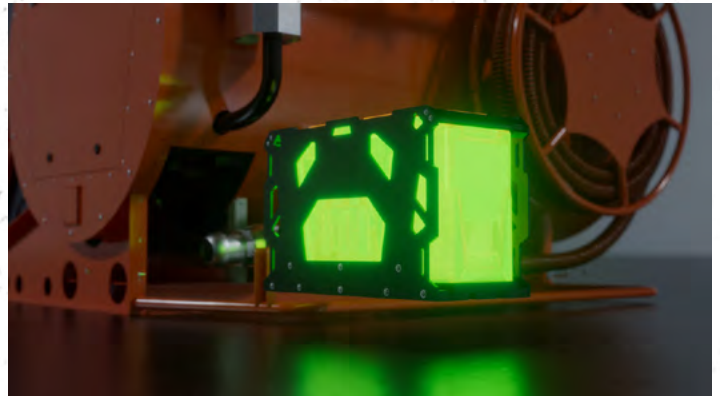
“The all electric solution for our toilet servicing machines fits seamlessly into our corporate sustainable strategy”.

Testing demonstrated that the ROM e-FLEXI is lighter and easier to use than traditional toilet servicing machines, with significantly lower energy consumption than had been expected. Erik van Walsum, explains, “The Vanguard battery packs deliver a higher energy density, faster charging and maintenance-free power, plus they can be charged through any normal 230V / 115V socket, which makes them very

user-friendly for our customers. Practical testing has proven that even after cleaning more than 40 cabins, the battery packs were still 25% full, offering excellent efficiencies and minimal downtime for users.”

With the rising costs of oil and fuel, electric cleaning offers ROM's customers a much more cost-effective solution, with added cost-savings due to the reduced maintenance requirement; a significant amount over the life cycle of the machine.

Briggs & Stratton's Vanguard battery packs are designed for machinery where performance is key. They can endure extreme operating conditions, are dust- and water-resistant, withstand being pressure-washed and are easily serviceable. Featuring standard CANbus J1939 communication for easy integration with application networks (optionally CAN Open for potential integration with legacy systems), and an independent paralleling that provides the ability to connect multiple battery packs effortlessly, the batteries are easy to integrate with a wide range of applications across many brands.





Vanguard batteries are engineered for what could happen under non-perfect conditions to truly be safe. They incorporate an onboard Battery Management System (BMS) that protects the battery for life, as well as adds safety for users, communicates with charger, application, and service diagnostic tool. Adding to that, the design supports passive propagation resistance – including wire bonding (individually fused cells), engineered air gaps between cells and maintained distances between, top and bottom of modules, engineered 1/4 in. thick aluminium tier plates – and redundant contactors.

Paul Bramhall, Director of Electrification/Rental EMEA at Briggs & Stratton said, “The ROM e-FLEXI 1100/750 is an excellent example of a powerful all-electric product that delivers important future-proofing benefits without compromising on delivery. The Vanguard battery packs offer flexibility to customers in line with their power needs, with 3.5, 5 or 7 kWh battery packs available. Meanwhile, machine users can maximise productivity, while reducing total cost of ownership thanks to the reduced maintenance costs and electrification.”

The ROM e-FLEXI machine is packed with advanced techniques, with a strong 1100 litre vacuum tank and a spacious 750 litre clean water tank, while still compact and lightweight. Controls

are located at an ergonomic working height with everything immediately within reach, allowing for comfortable working and more efficient deployment. The unit also features space on each side for safe storage of machine components.

André van Brummen, International Sales Manager at ROM bv, concludes, “Since launching the ROM e-FLEXI during the EUROTOI trade fair, we have seen enormous interest, as many companies are actively seeking more sustainable solutions to future-proof their operations. As more locations and municipalities impose regulations around harmful emissions, those cleaning companies who invest in electric machinery will be safeguarding their operations and the work area available to them. We are delighted to bring the first all-electric toilet servicing machine to market and to be supporting our customers with this solution.”

For more information on the ROM e-FLEXI, visit

<https://rombv.com/en/product/rom-e-flexi-1100-750>

For more information on Briggs & Stratton's Vanguard

power solutions visit <https://www.vanguardpower.com>

CONTACT US NOW

**TO FIND OUT HOW VANGUARD CAN HELP
YOU POWER YOUR EQUIPMENT**



Contact us via email to: **vanguardpower.emea@basco.com**



Find out more about Vanguard on: **www.vanguardpower.com**



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