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Robert Scott's New Robots Deliver Safer, Smarter, and More Efficient Cleaning Across Dynamic Space

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Commercial cleaning product manufacturer and distributor Robert Scott has added two new AI-powered robots to its steadily expanding cobotics range.

"For some time, Robert Scott has been championing the MT1, the world's first AI-powered scrubber dryer robot for large-scale environments, such as warehouses, airports, and shopping centres. Following its success, we are now excited to announce the launch of the new MT1 Vac and MT1 Max," says Alastair Scott, sales director at Robert Scott.

MT1 Vac

The MT1 Vac delivers powerful, industrial-grade suction, capturing everything from fine particles to larger debris with close-edge cleaning along walls and corners. Its low-profile design reaches easily under furniture, and a dual independent air-duct system boosts suction efficiency by 200%. A 6 L trash bin and 14 dust bags provide extended runtime with fewer emptying intervals. AI-powered floor recognition automatically adjusts suction and brush speed to suit carpets or hard floors, protecting surfaces while maintaining performance.

A HEPA-grade filtration system captures over 98% of particles as small as 0.3µm, with an optional HEPA 13 filter offering up to 99.97% efficiency, while 55 cm suction path increases coverage and reduces cleaning time. Modular, tool-free components minimise maintenance and replacement time.

The MT1 Vac is the world's first AI-powered vacuuming robot for large-scale environments. It features a

Visual Simultaneous Localisation and Mapping (VSLAM) system which enhances navigation in dynamic environments, while an ultra-wide scanning field allows efficient coverage of large areas. Dual disc brushes manage both large debris and fine dust, supported by high-flow negative-pressure ventilation and effective filtration to prevent secondary pollution.

MT1 Max

Built on the successful MT1 platform with enhanced capabilities and designed for indoor and semi-outdoor environments, including warehouses, loading bays and car parks, the MT1 Max is equipped with advanced 3D LiDAR, dual SoCs for greater computing power, and improved obstacle-crossing ability – adapting seamlessly to complex conditions.

With optimised environmental adaptability and a fully automated workflow, MT1 Max ensures safer, smarter, and more efficient cleaning across dynamic spaces. It features a comprehensive multi-dimensional safety system that provides structural protection, intelligent responses, slope climbing, rain avoidance, and efficient obstacle handling, further supported by a 1.2 metre warning light, safety projection, and audible-visual alerts for proactive risk prevention.

“Never underestimate the pure theatre of cobotics when the machines look so good,” says Alastair Scott. “The MT1 Max features a large 3D lidar radar on the top of the robot – which looks like a flashing police light, and which improves its obstacle avoidance and location detection. This means it can also operate outside – although the built-in rain sensor will send it back indoors on wet days!”

Smarter solutions

Alastair continues: “Expanding our offering in automated cleaning technologies with the MT1 Vac and MT1 Max marks a significant milestone in Robert Scott’s 100+ year history. It is rewarding to be able to demonstrate how our rich heritage and long-standing expertise is continuing to drive us forward as we lead the way in next-generation innovative cleaning solutions.

“As automation, AI and the Internet of Things continue to evolve at a rapid pace, and the cleaning sector seeks smarter solutions to economic challenges, it’s clear that robotics will play a key role in the future of commercial cleaning. Our growing robotics division, backed by 100 years of cleaning know-how, positions us strongly to lead the way in intelligent cleaning tools.”