

VERTIDRIVE M3

ONE MACHINE, MULTIPLE SOLUTIONS



VertiDrive multi-purpose convertible solution designed for washing, hydro- and abrasive blasting with an impressive production rate.

The robot adheres to the surface with multiple powerful permanent magnets, allowing operations on vertical, horizontal and overhead steel surfaces. The remotely controlled system results in more comfort for the operator, higher production rates and better quality. In fact, the M3 is eight times faster as a person!

The lightweight and divisible construction is very intuitive and reduces the buildup and change-over time to approx. ten minutes. This divisible construction allows you to have 2 robots in 1 and use it for a variety of duties such as (ultra) high pressure cleaning or abrasive-blasting.

Different applications like (U)HP and abrasive can be mounted on this versatile robot. Quality and speed are ensured, as well as operator comfort and safety.

Upon request, our M3 can be delivered explosive proof with ATEX Zone 2 certification and even an additional kit to convert it into the M4 solution for closed (ultra) high pressure cleaning.



CRAWLER FOR ULTRA HIGH PRESSURE WORKS



WORKS ON STEEL SURFACES IN ALL ORIENTATIONS



SAFE, CLEAN AND EFFICIENT



NO NEED FOR SCAFFOLDING OR CHERRY PICKERS



TURNS THE WORK INTO A ONE-MAN OPERATED JOB



STAY SAFELY ON THE GROUND: WIRELESS CONTROLS

60 m² / 646 ft² per hour







8x faster than manual work

7x more efficient

86% cost reduction

CASE MANUAL VS VERTIDRIVE M3

surface to treat 5,000 M² | 53 820 FT² Time span: 3 weeks

TIME	 	87%	LESS WORKING HOURS
PEOPLE	 	83%	LESS DIRECTLY INVOLVED PEOPLE
COSTS	 	85%	COST REDUCTION

ALWAYS 100%

Where the human body gets tired, robots never will. This results in a constant quality and work pace.

ROI < 5,000 M²

Based on this case, the return on investment of a VertiDrive M3 is at 4,644m².



MAKE IT WORK

The VertiDrive M3 allows you to work with different applications. Attach one of the standard applications to the crawler or create your own specific application.

COMBINE VERTIDRIVE M3 ROBOT CARRIER WITH THE APPLICATION OF YOUR CHOICE



Change applications
in minutes



Versatile standard
applications available



Easy adaptable to your
specific applications

GENERAL

Cleaning width	1500mm 60"
Dimensions	950 x 930 x 620 mm 39.40 x 36.60 x 24.40 "
Total Weight	62 kg 140 lbs

ELECTRIC VERSION

Control box	Stainless steel IP66
Connector	Schuko plug (CEE 7/4)
Power Supply	230 VAC - 50 Hz - 16 Amp Alternative power supply upon request
Cable length	50 m, extendable to 100 m
(Robot > Control box)	164 ft, extendable to 328 ft
Wireless control	128-bit connection range up to 100 m 328 ft

PNEUMATIC VERSION

Control box	Stainless steel IP66
Connector	Claw coupling 1/2"
Air consumption	Max. 2520 l/min 89 cfm
Air pressure	6 - 7 bar 85 - 100 psi
ATEX zone 2	Available upon request

ULTRA HIGH PRESSURE APPLICATION

For the removal of paint

Pressure	Max. 3,000 bar @ 40l/min Max. 44,500 psi @ 10.5 gal/min
Nozzles	Self rotating bar with 8 x M10 nozzles
Average production rate	50 - 60 m ² /h 540 - 640 ft ² /h

HIGH PRESSURE APPLICATION

For the removal of dirt, debris and rust

Pressure	Max. 500 bar @ 90 l/min Max. 7,500 psi @ 24 gal/min
Nozzles	3 self-rotating nozzles
Average production rate	100 - 150 m ² /h 1100 - 1600 ft ² /h

GRIT BLASTING APPLICATION

For the removal of coatings

Nozzles	Two nozzle holders, suitable for mounting grit blasting nozzles Adjustable position towards surface
Average production rate	30 - 40 m ² /h 325 - 430 ft ² /h

