

M8 VERTIDRIVE



CONSISTENT HIGH
QUALITY CLEANING



WORKS ON STEEL
SURFACES IN ALL
ORIENTATIONS



REDUCES WORKING
AT HEIGHT TO A MINIMUM



Cargo Holds of dry/liquid bulk carriers require a certain degree of cleaning when changing cargo. Such cleaning is a time consuming and at times hazardous task for the crew, which can be performed mainly while in port. The risk of not being sufficiently clean can be excessive, so a consistently high cleaning quality is necessary when i.e. grain clean is required. By cleaning the majority of the cargo hold with a magnetic crawler, you can reduce the cleaning time, increase safety, reduce risk and clean while in open water.

VertiDrive, in close cooperation with partners from the field, has worked relentlessly over the past years towards a new solution called the VertiDrive M8 Cargo Hold Cleaner. The robot is packed with the latest VertiDrive innovations, yet designed and tested to operate in the most demanding environments. The controls are designed to be intuitive for operation by a crew not necessarily experienced to work with (semi-) automated equipment.

VertiDrive is world's leading manufacturer of magnetic robotic crawlers for heavy duty applications. We have put our years of experience into the development of the VertiDrive M8 Cargo Hold Cleaner, which we can safely say that it's our most advanced model today. We are convinced this crawler will disrupt the way cargo hold cleaning is performed



ADVANTAGES OF THE CARGO

VERTIDRIVE M8

HOLD CLEANER

SAFER Reduce working at height to clean your cargo hold

CONSISTENT QUALITY

Integrated automated washing programs

CONVENIENT Operator stays safely on the ground, with intuitive control over the robot

SUSTAINABLE Efficient use of potable water means less water and less detergents

WHENEVER, WHEREVER

Clean your cargo hold anywhere, anytime, even in transit between ports

THE NEW STATE OF THE ART CARGO HOLD CLEANING SOLUTION

GENERAL

Cleaning width	1,200 mm 47.24 "
Dimensions	1,200 x 640 x 640 mm 47.24 x 25.19 x 25.19"
Total Weight	75 kg, divisible in two sections of 36 / 39kg for ease of transportation 165 lbs (79 / 86 lbs)

AUXILIARIES

Control box	300 x 210 x 400 mm, stainless steel 11-13 / 16 x 8-3/4 x 15-3/4 in
Remote Control	Range of operation 100 meter in standard (434Mhz) set-up 318 ft
Power/Control cable	50 meter 164 ft
Load arresters	2 pcs, with descender functionality
Pump connection	Included for most common pumps, ON/OFF and emergency stop
Wall Contact Switch	Included, for emergency shutdown should crawler lose contact

OPERATION LIMITS

Crawler payload	1,500 N 337 lb
Temp. limits	+3 ~ +45 OC +37 ~ +113 OF
Curvature	Internal radius 4 meter – external radius 6 meter
Angle between planes	Internal 120 degrees – external 240 degrees
Contamination	All common bulk products, i.e. pet coles, coal, cement, grain, oil products
alkaline and acids	Resistant to most common detergents, i.e.
Chemicals	

HIGH PRESSURE WATER SUPPLY

Max. pressure	500 bar 7250 psi
Max. fl ow	20 l/min - increased fl ow available upon request 5.3 gal/min
Max. temperature	90 OC 194 OF

POWER SUPPLY

Required power supply	220 – 240V / 50Hz (1 Ph + N), 16Amp alternative power supplies available upon request
Standard power plug	Schuko (CEE 7/4)



EASY TO (DIS)ASSEMBLE

RANSPORTABLE BY HUMAN OPERATOR

The VertiDrive M8 is demountable in under 1 minute. This allows for ease of transportation on board by human operators.

Both the disassembled M8 crawler as well as the control cable and control box are designed to be hand carried by a human operator and without crane assistance.

