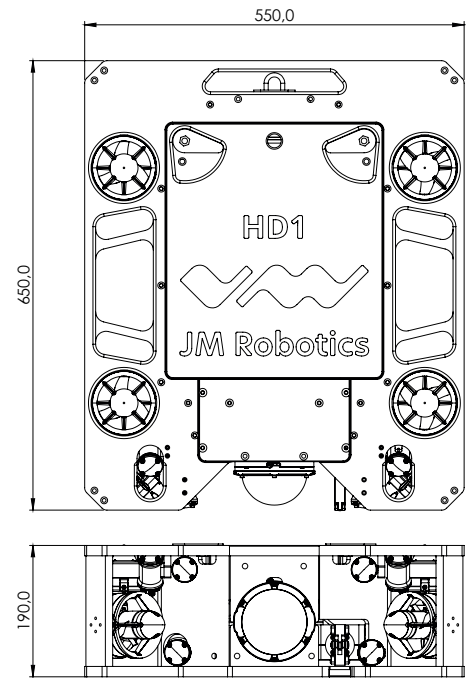


# JM HD1

TECHNICAL SPECIFICATIONS

# HD1: Robust & flexible

JM HD1 is an ROV system designed to handle cold waters and demanding environments. This is a proper underwater tractor that can withstand use in the most demanding conditions along the coast. It has a depth capacity down to 300 meters, and comes with 3Kw Topside Power System with ground fault monitoring. JM HD1 is robust, flexible and prepared for DVL, sonar and underwater positioning.



## PHYSICAL

Length	650 mm
Width	550 mm
Height	200 mm (without sensors)
Weight in air w/ ballast	21.8 kg
Weight in air w/ ballast	23 kg
Construction frame	HDPE plastic
Electronics enclosure	4" series aluminium
Power supply	3" series aluminium
Buoyancy	Rated to 488 m
Ballast weight	6 x 200 g stainless steel

## PERFORMANCE

Maximum rated depth	300 msw
Maximum forward speed	1.5 m/s – 3 knots
Thrusters	BR T200 with connectors
ESC	BR Basic 30A
Thrusters configuration	8 thrusters: <ul style="list-style-type: none"> <li>• 4 vectored</li> <li>• 4 vertical</li> </ul>
Forward bollard thrust	15 kgf
Vertical bollard thrust	20 kgf
Lateral bollard thrust	15 kgf

## CAMERA

Camera	1080p HD, low-light
Camera field of view	110° horizontally
Tilt range	+/- 90 degrees
Tilt servo	Hitec HS-5055MG

## LIGHTS

12 000 Lumens total	
Brightness	8 x 1 500 lumens
Light beam angle	135°

## EXTERNAL INTERFACE

2 AUX Input and 12V w/ USB and Ethernet
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## SENSORS

3-DOF gyroscope
3-DOF accelerometer
3-DOF magnetometer
Internal temperature sensor
Bar30 pressure/depth & temperature sensors, external
Current and voltage sensing
Leak detection

## POWER SUPPLY

Length / width / height	420 mm / 480 mm / 220 mm
Weight	11.5 kg
Input voltage	180-240 VC, 50-60 Hz
Input current max (fuse)	16 A
Output voltage	340-400 VDC
Output current max	7.5 A
Output power max	3000 W
Operating temperature	-20°C to 60°C
Humidity	20-90% RH non-condensating
Safety	Auto ground failure detection
IP ratings	IP20 (waterproof case)

## TETHER

Sheath colour	Yellow
Diameter	13 mm
Buoyancy in salt water	Neutral
Working strength	150 kg
Breaking strength	Min 230 kg
Max voltage power conductors	1 kVolts
Max voltage data conductors	600 volts
Static bending radius	>5 x outer diameter
Dynamic bending radius	>12 x outer diameter

## BOTH ROV AND POWER SUPPLY COME WITH REMOTE SUPPORT!

JM Remote-support is pre-installed on ROV and topside power supply. With Remote support we can troubleshoot, update, and maintain your ROV system. ROV is prepared with 2 x auxiliary for extra equipment (USB and Ethernet 12V and optional serial data).