

Light Weight Magnetic Climbing Robots



Helical Robotics FerroPod Series

FerroPod-2 Features

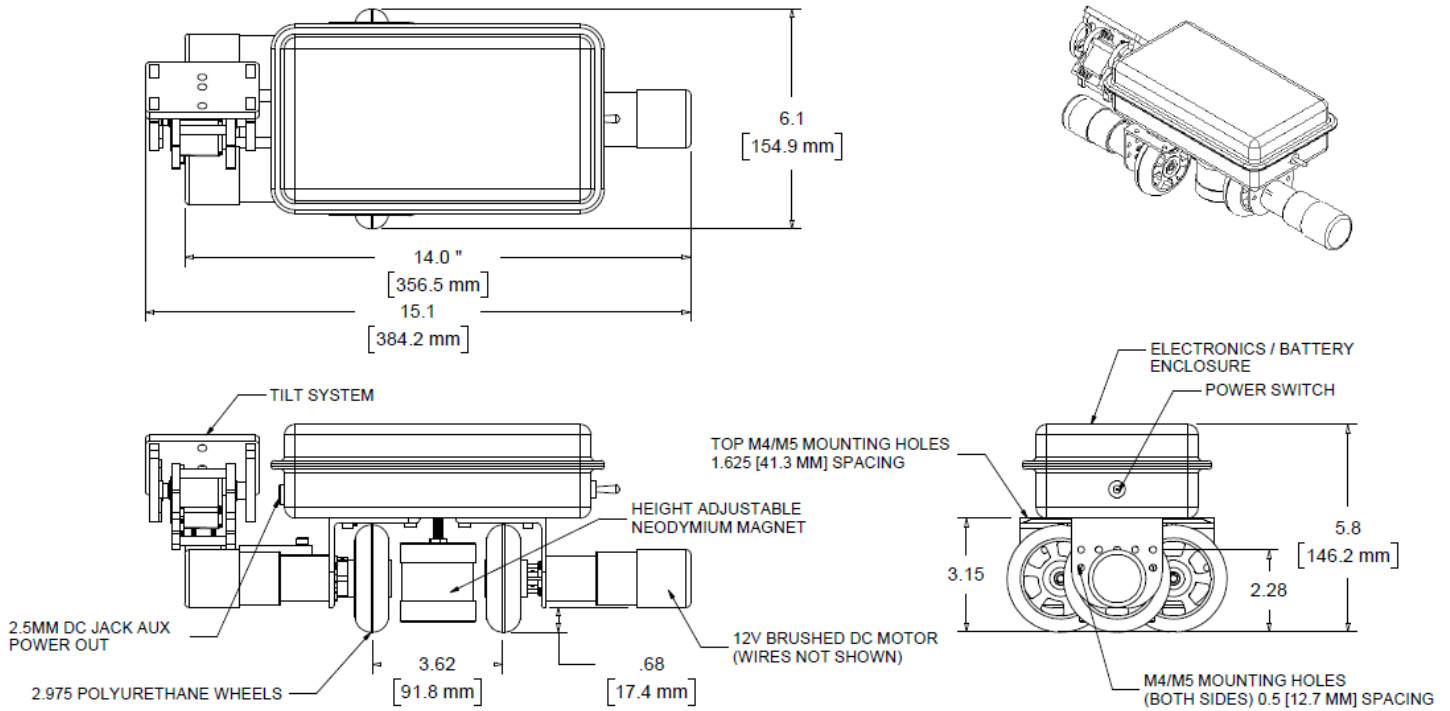
FerroPod-2 is a single man portable climbing robot for poles, towers, pipes, and plates on objects such as ship hulls and storage tanks.

- Lightweight and portable design for easy deployment, use, and transport.
- Magnetic adhesion system does not touch the work surface.
- 3-Wheel design allows turning on curved and uneven surfaces.
- Works on surfaces from 6 inch (20 cm) diameter to flat and uneven plates in any orientation.
- Full wireless operation allows for expanded work environment.
- Optional integration with other devices such as cameras, sensors, inspection equipment (e.g. ultrasound)
- Multiple chassis sizes and capacities engineered to order per customer specifications.

***Request Your
Quote Today!***

www.helicalrobotics.com





Model	FerroPod-2 (Shown with Optional Tilt System and 2.5mm 5VDC Aux. Power Jack)
Robot Mass	8.2 lbs (3.7 kg)
Footprint	14.0/15.1 x 6.1 in (35.6/38.5 x 15.5 cm)
Height	5.8 in (14.6 cm)
Cylinder Diameter Range	6 inches (15.3 cm) to Flat Plate
Max Climbing Payload Capacity	2 lbs (0.91 kg) Where Payload CG Within 3.5 in (8.9 cm) of Work Surface
Max Non-Climbing Payload Capacity	10 lbs (4.5 kg) Between Wheels on Non-Ferrous Surfaces
Nominal Air Gap Under Magnet	0.20 - 0.325 in (5.1 - 8.2 mm)
Minimum Speed	60 ipm (1.5 m/min)
Maximum Speed	540 ipm (13.7 m/min)
Adhesion System	1 Neodymium Magnet Minimum
Drive Battery	5.2 Ah Li-Ion w/ PCB
Drivetrain	12V Brushed DC Motors
Control Mode	2.4 GHz Wireless Controlled with Differential Drive Control System
Wireless Control Range	2500 ft (762 m) Line of Sight
Telemetry	Case Temperature/Drive Motor & Controller Battery Voltage/Signal Strength
Operating Temperature	-40 °F to 140 °F (-40 °C to 60 °C)
Ingress Protection	IP54

Information subject to change without notice.
Drawing dimensions for reference only.
Based on optimal conditions.