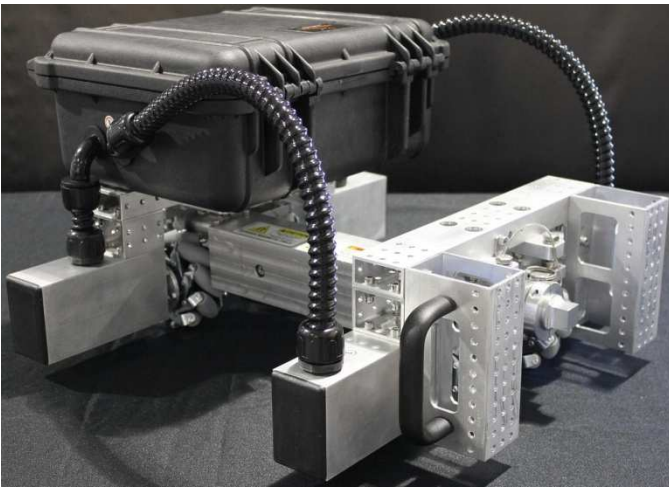


Light Weight Magnetic Climbing Robots



Helical Robotics FerroTower Series



FerroTower-30 Features

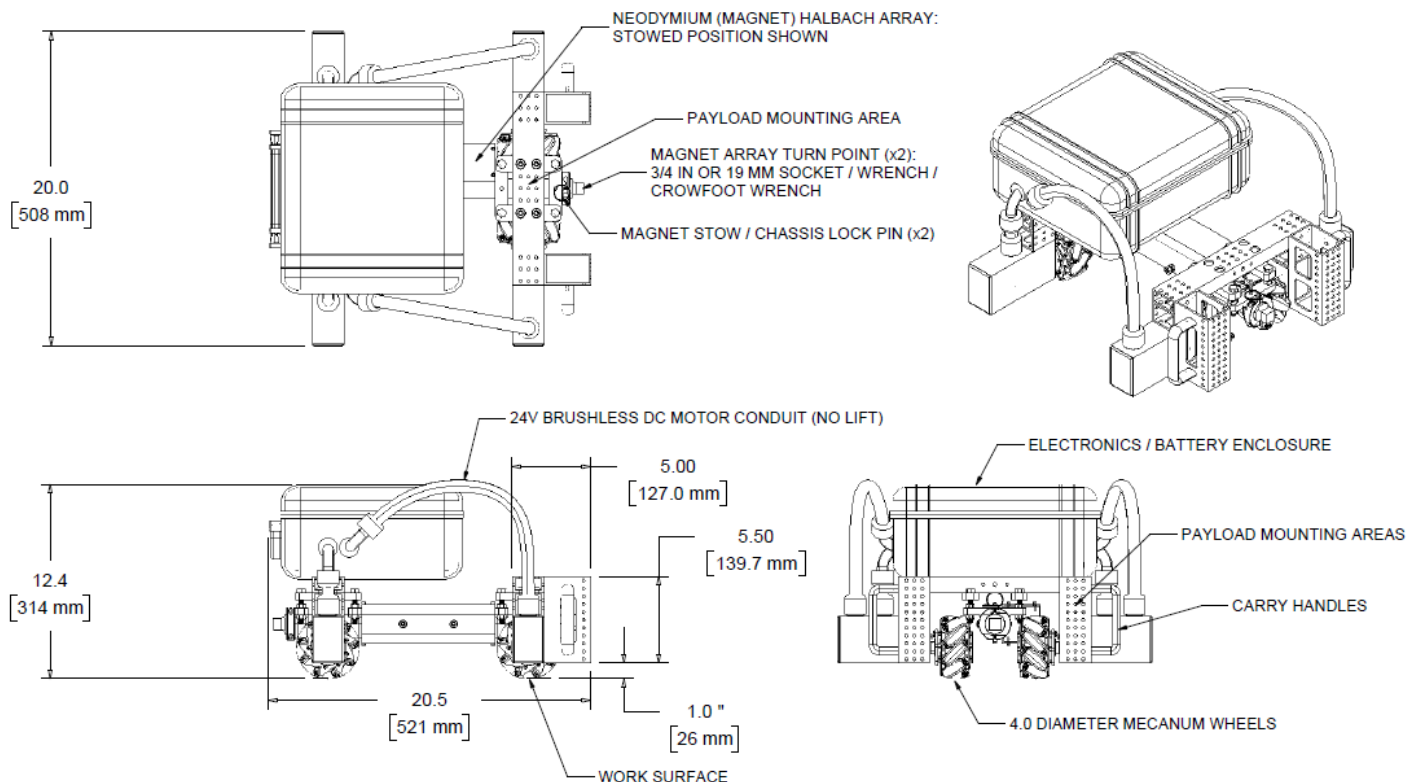
FerroTower-30 is a single man portable, climbing robot for cylindrical, uneven, and flat objects.

- Lightweight and portable design for easy deployment, use, and transport.
- Payload surface allows for a wide range of tooling and equipment compatibility.
- Mecanum wheel drive system offers best in class maneuverability and magnetic adhesion system does not touch surface.
- Works on surfaces with outer diameters (OD) greater than 70 inches (178 cm) as well as flat or uneven plates in any surface orientation.
- 360 Degree Rotation on OD surfaces greater than 96 inches [244 cm]
- 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.



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Model	FerroTower-30
Dry Robot Mass	41.0 lbs (18.6 kg)
Footprint	20.5 x 20.0 in (52.1 x 50.8cm)
Height	12.4 in (31.4 cm)
360 Degree Operating Range (OD)	96 in (244 cm) or Greater OD Surface Curvature Including Flat/Uneven Plates
Surface Operating Range (OD)	70 in (178 cm) or Greater OD Surface Curvature Including Flat/Uneven Plates
Surface Operating Range (ID)	126 in (320 cm) or Greater Inner Diameter (ID) Curvatures
Max Climbing Payload Capacity	30 lbs (13.6 kg) Within 6 in (15.2 cm) of Work Surface
Max Non-Climbing Payload Capacity	300 lbs (136 kg) on Non-Ferrous Surfaces
Nominal Air Gap Under Magnet	0.30 - 0.60 in (7.6 - 15.2 mm)
Minimum Speed	26 ipm (0.66 m/min) / 40 ipm (0.70 m/min) Gear Ratio Dependent
Maximum Speed	260 ipm (6.6 m/min) / 400 ipm (10.1 m/min) Gear Ratio Dependent
Adhesion System	1 Neodymium Halbach Array
Drive Battery	1 NiMH Battery Pack (4.9 Ah) / Optional Li-Ion (8.7 Ah)
Battery Discharge Safety	Integrated Low Voltage Cutoff to Protect Battery from Over Discharge
Drivetrain	24V Brushless DC Motors with Closed Loop Velocity Control
Control Mode	2.4 GHz Wireless Controlled with Helical Robotics Mecanum 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.