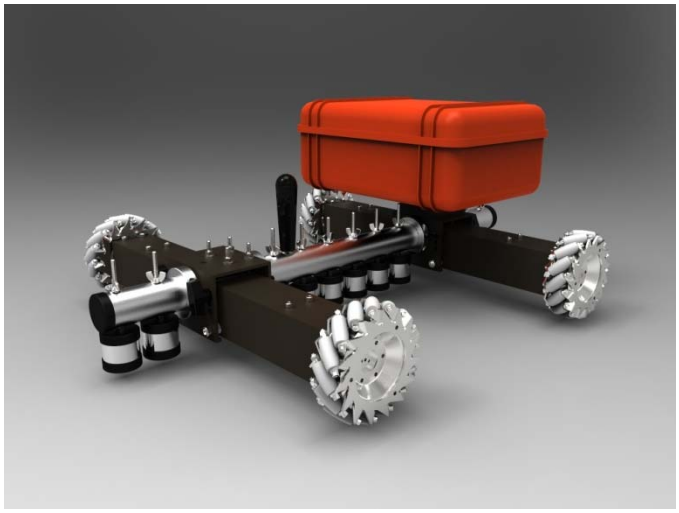
Portable Magnetic Climbing Robot

Helical Robotics
Mag Series



Features

HR-MP100 is a portable, climbing robot.

- Portable design for easy deployment, use, and transport.
- User defined payload surface allows for a wide range of tooling and equipment compatibility.
- Mecanum wheel drive system offers best in class maneuverability.
- Magnetic adhesion system does not touch the work surface.
- Works on surfaces from 9 ft. (2.7 M) diameter to flat plate.
- 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.

www.helicalrobotics.com

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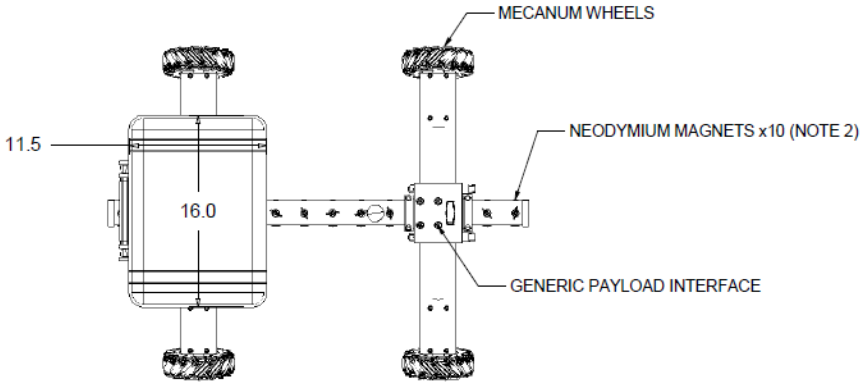

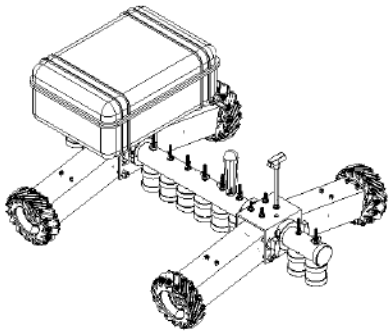

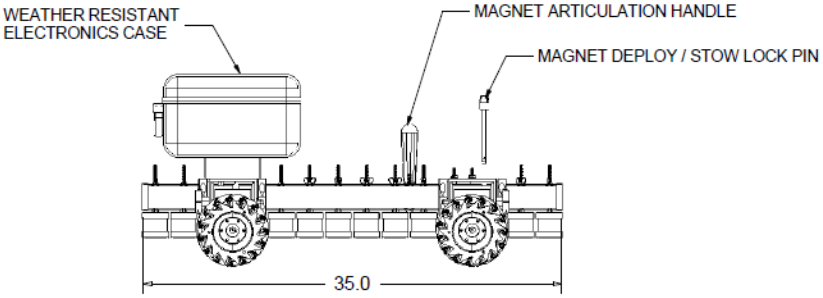

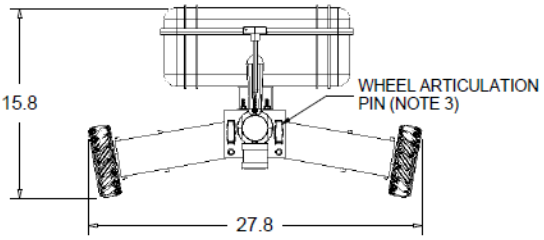

NOTES:
1. SHOWN WITHOUT PAYLOAD
2. RATED CLIMBING PAYLOAD CAPACITY IS 100 LBM FOR THE MAGNET CONFIGURATION SHOWN
3. MECANUM WHEEL ARTICULATION TO KEEP PERPENDICULAR WITH WORK SURFACE. SHOWN IN CYLINDRICAL SURFACE CONFIGURATION.
4. ESTIMATED WEIGHT BEFORE ADDING PAYLOAD
5. DIMENSIONS FOR REFERENCE ONLY
6. DRAWING UNITS = INCHES UNLESS OTHERWISE NOTED

Model	HR-MP100
Dry Robot Mass	77 lbs (34.9 kg)
Footprint	35.0 x 27.8 in (88.9 x 70.6 cm)
Height	15.8 in (40.1 cm)
Turning Radius	Zero Degrees
Modularity	Adjustable axles for multiple surfaces
Max Climbing Payload Capacity	100 lbs (45 kg)
Max Horizontal Payload Capacity	500 lbs (227 kg)
Top Climbing Speed	45 ft/min (13.7 m/min)
Top Descent Speed	60 ft/min (18.3 m/min)
Adhesion System	10 Neodymium Magnets Minimum
Drive Batteries	2 Lithium Iron Phosphate Packs (26 Ah Capacity)
Control Mode	2.4 GHz Radio Controlled (4WD Omni-Directional)
Radio Control Battery	1 Ni-MH (4.5 Ah Capacity)
Radio Control Range	2500 ft (762 m) Line of Sight
Telemetry	Altitude/Temperature/Drive Motor & Radio Battery Voltage/Signal Strength
Operating Temperature	14 °F - 122 °F (-10 °C to °50 C)

Information subject to change without notice.
Based on optimal conditions.