



Technical
Specifications

VERSATRAX M310/M345

Inspection Crawlers

VersaTrax™ inspection crawlers offer a unique solution for high definition remote visual inspection perfect for examining steel structures across a broad range of applications.

INSPECT WITH PRECISION. RETRIEVE WITH CONFIDENCE.

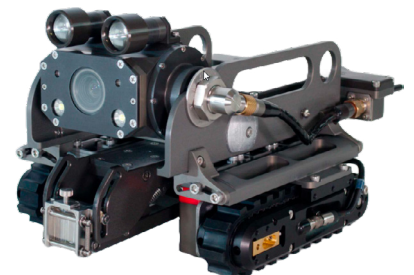
The VersaTrax™ M310/M345 platform combines high-definition visual inspection and integrated ultrasonic testing in a compact magnetic crawler designed for challenging industrial environments. Available in VT-M310 and VT-M345 configurations, the system provides reliable access to critical inspection areas while reducing the need for scaffolding, rope access, and confined-space entry.

Supporting thickness measurement, corrosion mapping, and advanced NDT integration, the platform delivers a versatile solution for asset integrity programs across marine, industrial, energy, and infrastructure applications

APPLICATIONS

- Storage tanks
- Ship hulls
- Pressure vessels
- Wind towers
- Penstocks
- Marine structures
- Corrosion monitoring
- Asset integrity programs

Integrated visual
inspection and NDT
capability with inspection
distances up to 100 m
(330 ft).



INTEGRATED ULTRASONIC TESTING

The VT M310/M345 platform combines remote visual inspection with fully integrated ultrasonic testing. An onboard raise actuator provides controlled probe positioning, while an integrated encoder wheel enables accurate distance tracking and scan documentation.

Integrated UT supports inspection distances up to 100m (330ft), allowing operators to perform thickness surveys and corrosion monitoring without direct access to the inspection surface.

Compatible probe options:

- Single Crystal
- Dual Crystal
- Single Crystal Immersion
- R-Scan DCP

Optional accessories include a couplant pump and delivery hoses.

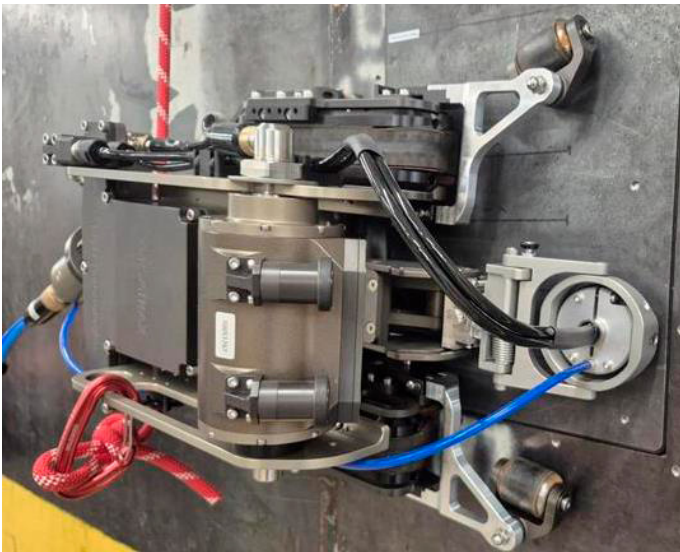


Figure 1: VT-M345 integrated with a dual crystal UT probe performing thickness measurements on a vertical steel asset.

ADVANCED NDT INTEGRATION

Beyond integrated UT, the platform supports a variety of advanced inspection technologies including:

- Phased Array Ultrasonic Testing (PAUT)
- Pulsed Eddy Current (PEC)
- SHARCK™
- Alternating Current Field Measurement (ACFM)

Advanced inspection methods connect directly to their respective instruments and maintain the operating limitations associated with the selected equipment.

CHOOSE THE RIGHT CONFIGURATION

VT-M310

Traditional magnetic track configuration optimized for maximum traction, payload capacity, and holding force. Manually adjustable track canting allows the crawler to maintain improved surface contact when operating axially on concave and convex surfaces.

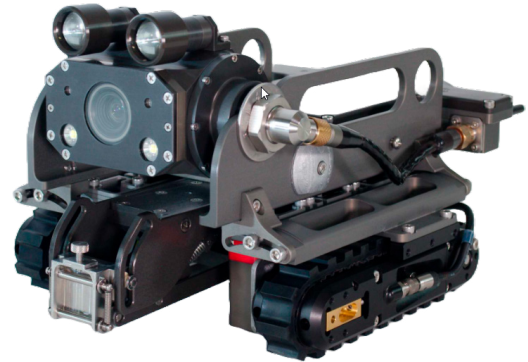


Figure 2: VT-M310

VT-M345

Magnetic wheel-assisted track system designed to improve maneuverability, steering response, and surface coverage while maintaining strong magnetic adhesion. The outrigger wheels provide extra support when navigating over welds or other obstacles that would otherwise cause the magnets to detach from the surface.

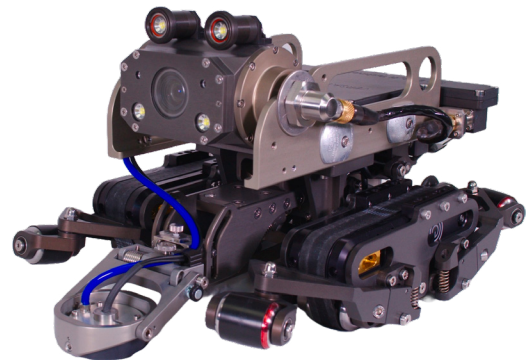


Figure 3: VT-M345

FIELD-PROVEN PERFORMANCE

Building on the proven heritage of the Magg™ crawler platform, the VersaTrax™ M310/M345 platform combines strong magnetic adhesion, modular tooling, and integrated inspection capabilities in a compact package.

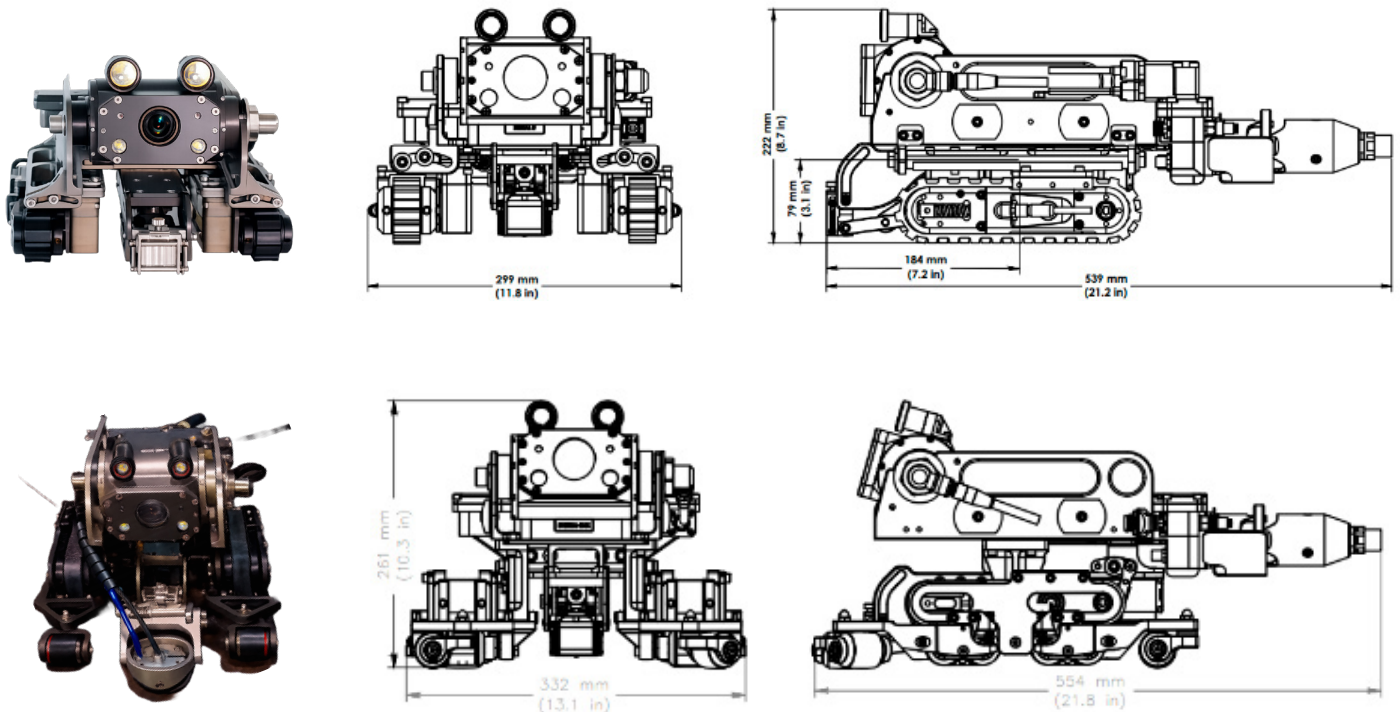
The VersaTrax™ M310/M345 platform is available with a standard 60 m (200 ft) depth rating, or an optional non-depth rated configuration for applications where underwater operation is not required.

SPECIFICATIONS

	VT-M310	VT-M345
Crawler dimensions	538 x 297 x 211 mm (21.2 x 11.7 x 8.3 in)	423 x 330 x 256 mm (16.7 x 13.0 x 10.1 in)
Maximum tether length	100 m (330 ft)	100 m (330 ft)
Maximum speed	3.6 m/min (12 ft/min)	3.6 m/min (12 ft/min)
Vehicle weight	13 kg (28.5 lb)	16 kg (35 lb)
Tether weight	0.097 kg/m (0.065 lb/ft)	0.097 kg/m (0.065 lb/ft)
Vertical payload (tether + load)	14 kg (31 lb)*	14 kg (31 lb)*
Camera	HD Camera, 120x zoom (10x optical), tilting head	HD Camera, 120x zoom (10x optical), tilting head
Controller	IC500 portable controller Optional: IC100 in some applications with <30m tether	IC500 portable controller Optional: IC100 in some applications with <30m tether
Lighting	2x High intensity LED lights 2x High intensity LED Spotlights	2x High intensity LED lights 2x High intensity LED Spotlights
Depth rating	60 m (200 ft) OR Non-Depth Rated	60 m (200 ft) OR Non-Depth Rated
Operating temperature	0°-40°C (32°-122°F)	0°-40°C (32°-122°F)

*Actual payload capacity is dependent on surface condition and material magnetic properties.

STANDARD DIMENSIONS



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