

**Technical  
Specifications**

# VERSATRAX M-SERIES

See Quality. Experience Value.

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

## PERFECT FOR EXAMINING STEEL STRUCTURES

The VersaTrax M-Series crawler family offers a unique solution for remote visual inspection (RVI), tooling, or non-destructive testing (NDT) across a broad range of applications.

The powerful crawlers provide unmatched performance with the capacity to record live video, take still images, and collect sensor data.

Its durable construction and ease of use make it well suited for examining steel structures like wind turbines, storage tanks, and ship hulls – even in the splash zone!

## APPLICATIONS

- Marine operations
- Ship hulls
- Tank cars
- Vessels
- Storage tanks
- Wind turbines

**High-definition robots built for exploring tight spaces within ferrous assets, ensuring strong magnetic adhesion to steel structures.**



## RUGGED INSPECTION CAMERA

The VersaTrax M-Series 310 model is supplied with a robust camera that can withstand even the worst environments. The optimized design allows a clear image streamed in milliseconds, enabling real-time decision-making. The 460 model features a high-definition Spectrum™ camera and optional modules.



Figure 1: VT-M310, medium class crawler, designed for tank inspections, vessel inspections, wind tower inspections, and weld inspections.

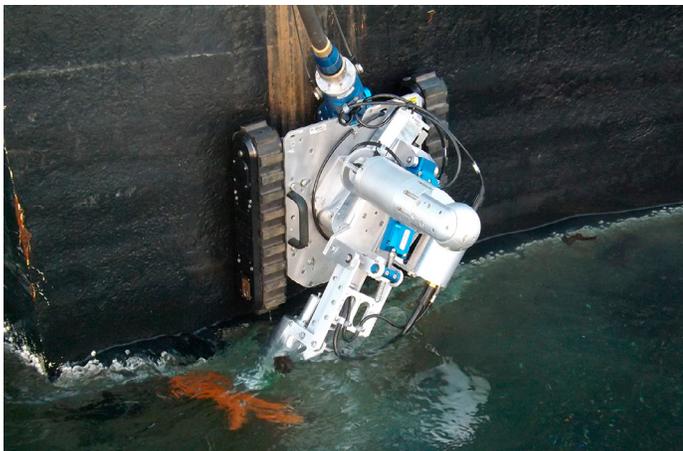


Figure 2: VT-M460, large class crawler, suitable for tank cleaning, offshore pylon inspections, and ship hull inspections



Figure 3: Confined space inspection.

## RELIABLE PERFORMANCE

The VersaTrax is a trusted and reliable remote inspection crawler designed to withstand the harshest conditions.

The unique combination of raw power, agility, and magnetic downforce allows the inspection crawler to accomplish what most wheeled vehicles can't. Eddyfi Technologies crawlers use rubber belts to contact the surface avoiding marring or damaging the surfaces they are inspecting.

The M-Series supports crawler track canting which allows the inspection platform to run axially on curved surfaces. Note that transitioning from axial to circumferential orientations may limit the crawler's operational limits.

Whether a planned or emergency inspection in an open environment or confined space, the VersaTrax crawler can easily traverse to critical areas of interest even when met with rough, dirty surfaces.

## SIMPLE AND OPTIMIZED INTERFACE

The M-Series utilizes proprietary ICON™ software. Whichever inspection crawler the operator uses, the software interface stays the same, allowing you to reduce the amount of time spent training and flattening the learning curve.

Robotics are being used more and more for efficiency and safety reasons. Eddyfi Technologies supplies the complete solution, so there is no time wasted learning several platforms. With the ICON software, you have access to one of the largest pools of inspection robotic systems.

## PAYLOAD AND TRACTION

Not sure what issues you might encounter? That's not a problem. There is an inspection crawler for your application, no matter how big the task. The payload capacity allows you to install a wide variety of tools or sensors.

Unlike other remote robotic crawlers, the M-Series traction and downforce excel in the most challenging conditions. Simply attach the crawler to the surface and let it do the work. The magnets perform on various surfaces while being extremely resistant to surface uniformity.



Figure 4: NDT series based on magnetic platform featuring an eddy current array probe.

# SPECIFICATIONS

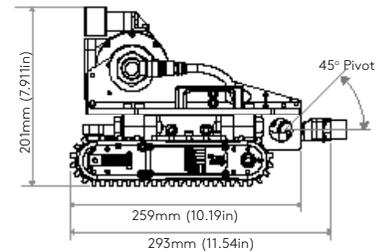
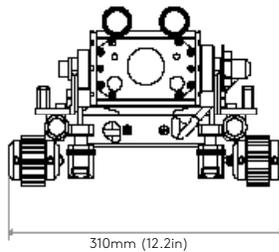
	VT-M310	VT-M460
Crawler width	310mm (12.2in)	480mm (18.9in)
Maximum tether length	100m (330ft)	1000m (3300ft)
Maximum speed	3.6m (12ft) per minute	6.4m (21ft) per minute
Vehicle weight	6.2kg (14lb)	36kg (80lb)
Tether weight	0.092kg/m (0.062lb/ft)	0.119kg/m (0.08lb/ft)
Vertical payload (tether + load)	14kg (31lb)*	24Kg (53lb)*
Camera	HD camera, 120x zoom (10x optical), tilting head	Spectrum 120 HD PTZ camera
Controller	IC500 portable controller Optional: IC100 in some applications with <30m tether	Rackmount controller
Lighting	2x auxiliary LED lights	2x auxiliary LED lights
Depth rating	60m (200ft)	60m (200ft)
Operating temperature	Normal: 0°C to 45°C (32°F to 113°F) Limited: -10° to 45°C (14°F to 113°F)**	Normal: 0°C to 45°C (32°F to 113°F) Limited: -10° to 45°C (14°F to 113°F)**

\*Actual payload is affected by surface condition and magnetic property of the surface.

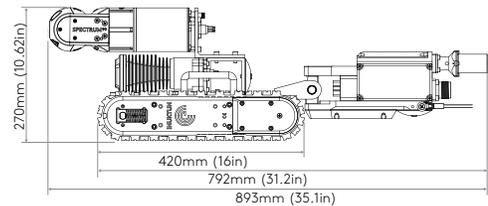
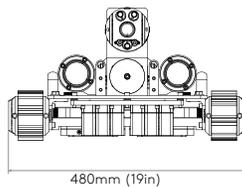
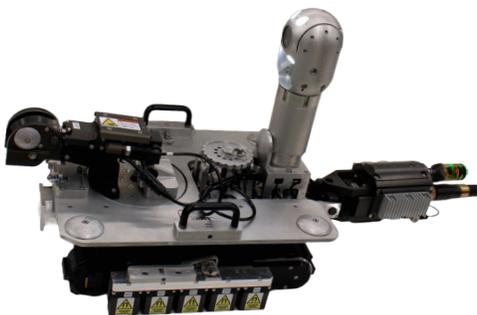
\*\*Running outside the normal operating condition for prolonged periods of time can affect system performance and reduce life expectancy of some components.

# STANDARD DIMENSIONS

VT-M310



VT-M460 (shown with options)



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