



**Technical
Specifications**

VERSATRAX Y-SERIES

Up. Down. See All Around.

VersaTrax™ can perform difficult inspections over a wide range of pipe sizes in virtually any orientation.

EASILY NAVIGATE BENDS AND VERTICAL PIPE SEGMENTS

The VersaTrax Y-Series inspection crawler is a state-of-the-art pipe inspection system with advanced capabilities. This sophisticated robotic crawler provides detailed remote visual inspection, traveling up to one kilometer (3,300ft) in a single run.

It is well suited for all challenging geometry pipelines or conduits. The unique three-tracked design allows for vertical travel, even through bends.

The VersaTrax can be utilized for regular maintenance and monitoring campaigns or quickly troubleshoot a problem in emergencies. The VersaTrax is the workhorse of pipe inspection and can carry a wide variety of sensors or tooling.

INDUSTRIES

- Petrochemical
- Oil & Gas
- Nuclear
- Mining
- Municipal
- Water
- LNG

A robust solution for evaluating hard-to-reach areas, featuring a Y-shaped chassis that maximizes adhesion to internal pipe surfaces.



APPLICATIONS

- Drill risers
- Caissons
- Penstocks
- Water pipework
- Sewer lines
- Gas pipes
- Pipes featuring horizontal and multiple bends.

EASILY NAVIGATE MULTIPLE BENDS AND VERTICAL PIPES

Combining the power of three uniquely designed tracks and an expandable tripod chassis, the VersaTrax can perform difficult inspections over a range of pipe sizes in virtually any orientation.

Auxiliary LED lighting complements the high-quality video captured by the onboard cameras, while real-time sensors indicate pipe size and expansion force.

Constructed out of anodized aluminum and stainless steel, designed to resist field abuse and rough operations, making it ideal for land-based applications, the VersaTrax is also fully submersible for underwater inspections. The VersaTrax family carries a base 60m (200ft) depth rating by default, thus allowing stress-free in-service inspections in conditions where water and humidity are present.



Figure 1: VT-Y200, medium class crawler designed for vertical piping, multi-bend/multi-diameter piping, cleaning, internal NDT in pipes, and marsupial operations.

LIVE CAMERA STREAM

VersaTrax crawlers are equipped with a robust camera that can stand up to the toughest conditions. Offering a super low latency video stream allows you to easily navigate around obstacles and make instant decisions while the crawler is 1km (0.6mi) away.

Many camera options are available, ranging from full Pan, Tilt, and Zoom (PTZ) to the compact PT Spectrum camera.



Figure 2: ICON records remote visual inspection video and snapshots, collating the information with sensor data collected from the vehicle mounted sensors with an ICON job.

UNMATCHED POWER TO INSPECT WHAT OTHERS CAN'T

VersaTrax crawlers are engineered to outperform conventional wheel or track based robots in the pipe environment. VersaTrax can drive up to 1km (0.6 mi) in a pipe.

Need to reach further distances with a single access point? Ask our experts to look at your application. Custom solutions based on the VersaTrax technology can go beyond what seems possible.

The unique three-track chassis and proprietary tracks offer an incredible pulling force, making it possible to carry an impressive payload vertically through bends. An optional front rotating tooling arm is ideal for positioning tools or sensors precisely on the pipe's circumference.

SIMPLE AND OPTIMIZED INTERFACE

The Y-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.

Software features include crawler operation, project/job image tagging and annotation, video recording, sensor data recording, plugins providing automation, and more.

Talk to our experts to discuss which robotic crawler is best suited for your application.

SPECIFICATIONS

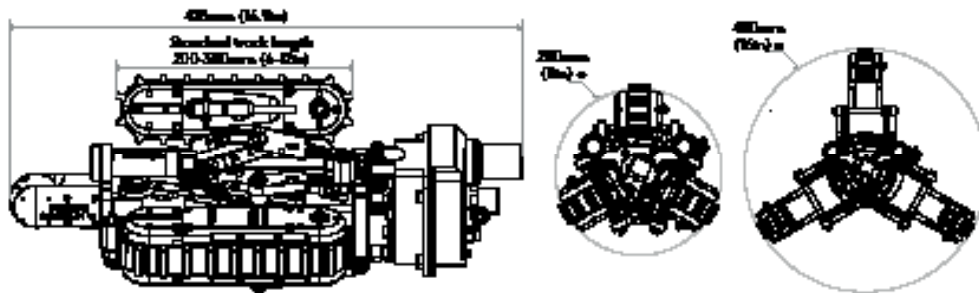
DESCRIPTION	VT-Y200	VT-Y380
Pipe opening range	200mm (8in) - 400mm (16in)	380 (15in) - 915mm (36in)
Maximum tether length	300m (1000ft)	1000m (3300ft)
Maximum speed	3.6m (12ft) per minute	6.4m (21ft) per minute
Vehicle weight	8.5kg (19lb)	46kg (102lb)
Tether weight	0.101kg/m (0.068lb/ft)	0.119kg/m (0.08lb/ft)
Vertical payload (tether + load)	17kg (38lb)*	34kg (75lb)*
Camera	Spectrum 45 PT camera and rear auxiliary camera	Spectrum 90 PTZ camera and rear auxiliary camera Optional: Spectrum 120 HD PTZ camera and rear auxiliary camera
Controller	IC500 portable controller	Rackmount controller
Lighting	2x auxiliary LED lights	3x auxiliary LED lights
Depth rating	60m (200ft)	60m (200ft)
Operating temperature	Normal: 0°C to 45°C (32F to 113F) Limited: -10° to 45°C (14F to 113F)**	Normal: 0°C to 45°C (32F to 113F) Limited: -10° to 45°C (14F to 113F)**

*Actual payload is affected by surface condition.

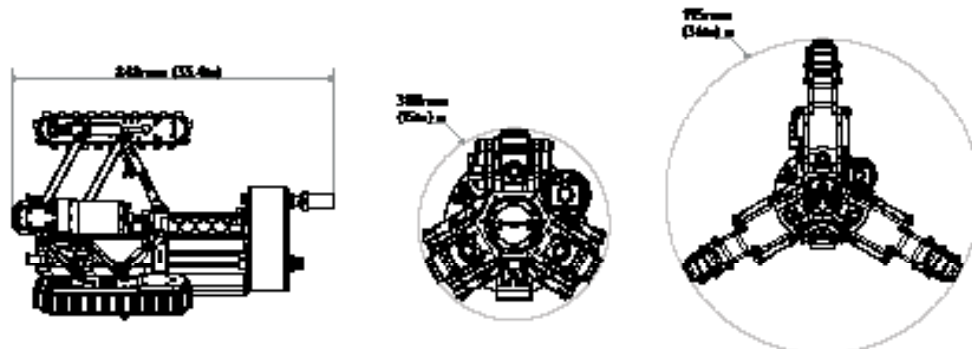
**Running outside the normal operating condition for prolonged periods of time can affect system performance and reduce life expectancy of some components.

STANDARD DIMENSIONS

VT-Y200



VT-Y380



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