

SteerROVER™ Steerable Scanner

Remotely Inspect Welds and Map Corrosion



The SteerROVER™ portable motorized scanner is based on the field-proven MapROVER™ scanner but adds steering capabilities so that you can position it from a distance. Large ferromagnetic areas that are difficult to access, such as pressure vessels and tanks, are no longer out of your reach. The scanner can be configured for corrosion mapping using a motorized raster arm or for weld inspection using a probe holder rack.

You can leave your laptop back in the office—all operations are controlled using the intuitive touch screen remote control, and the only connection is between the power controller and the OmniScan® or FOCUS PX™ flaw detector's encoder input.

Benefits

- **Stop relying on expensive scaffolding:** Inspect hard-to-reach areas with a steerable scanner comprised of two pods with independent motors and four strong magnetic wheels.
- **Easy to control:** Adjust the scanner's position in relation to the weld or the zone to be mapped using an intuitive touch screen remote and two joysticks.
- **Multiple control options:** Configure the remote so that the scanner's movement requires continuous operator input or so that movement starts when the operator provides a momentary input and stays on until a second input. Two automated raster scan patterns are also available.
- **Versatile:** Choose from a motorized raster arm for corrosion inspection or a four-probe holder rack for weld inspection (increase to six probes with optional probe holders).
- **Designed with safety in mind:** Emergency-stop buttons located on the scanner and the power controller.
- **Durable:** Divisible cable conduit umbilical offers protection and flexible configurations.
- **Adaptable:** The probe rack can be used for circumferential and longitudinal weld inspection.

Standard Inclusions

- Steerable motorized scanner.
- Touch screen remote control.
- Power controller.
- Detachable umbilical cables with divisible protection sleeve.
- Encoder cable linking to current OmniScan and FOCUS PX instruments.
- Irrigation tubing.
- Carrying case(s).
- Motorized raster arm or probe holder rack (depends on configuration).

Raster arm

- Spring-loaded probe holder compatible with the HydroFORM® scanner and Dual Linear Array™ corrosion probe.

Pivoting probe holder rack

- Four spring-loaded probe holders.
- Two adjustable yokes to hold phased array probes (up to 57.6 mm wide and 48.5 mm long).
- Two adjustable yokes to hold TOFD-P/E probes. (up to 45 mm wide and 36.8 mm long)

Configurations

The SteerROVER™ scanner can be ordered in different configurations depending on the application (weld or corrosion) and by combining different raster arm and cable length options.

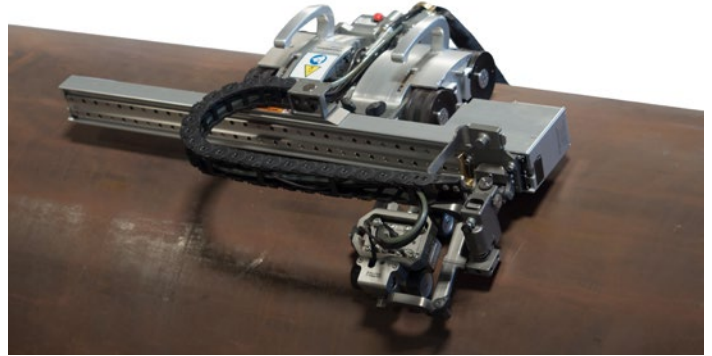
Weld Inspection

The SteerROVER scanner and probe holder rack can bend to perform inspection of longitudinal welds.



Corrosion Mapping

The SteerROVER scanner, when fitted with a motorized raster arm, is a powerful solution for corrosion inspection in remote locations.



Specifications

Circumferential pipe diameter range: 2.75 in. (70 mm) up to flat

Longitudinal pipe diameter range: 12 in. (305 mm) up to flat

Internal, circumferential pipe range: 24 in. (610 mm) and up

Maximum scanner speed: 250 mm/s

Maximum raster arm speed: 762 mm/s

Scanner idler encoder resolution: 13.78 steps/mm

Scanner motor encoder resolution: 872.5 steps/mm

Raster arm resolution: 240.2 steps/mm

Ordering Information

Part number	Item Number	Description
SteerROVER-Weld-5m	Q7500050	SteerROVER™ scanner with weld probe holder rack. 5 m (16 ft) long cables.
SteerROVER-Weld-15m	Q7500051	SteerROVER scanner with weld probe holder rack. 15 m (49 ft) long cables.
SteerROVER-Weld-30m	Q7500052	SteerROVER scanner with weld probe holder rack. 30 m (98 ft) long cables.
SteerROVER-Raster600-7.5m	Q7500053	SteerROVER scanner with 600 mm (2 ft) long raster arm. 7.5 m (24.6 ft) long cables.
SteerROVER-Raster600-15m	Q7500054	SteerROVER scanner with 600 mm (2 ft) long raster arm. 15 m (49 ft) long cables.
SteerROVER-Raster600-30m	Q7500055	SteerROVER scanner with 600 mm (2 ft) long raster arm. 30 m (98 ft) long cables.
SteerROVER-Raster900-7.5m	Q7500056	SteerROVER scanner with 900 mm (3 ft) long raster arm. 7.5 m (24.6 ft) long cables.
SteerROVER-Raster900-15m	Q7500057	SteerROVER scanner with 900 mm (3 ft) long raster arm. 15 m (49 ft) long cables.
SteerROVER-Raster900-30m	Q7500058	SteerROVER scanner with 900 mm (3 ft) long raster arm. 30 m (98 ft) long cables.
MapROVER-A-Laser	Q7750081	Optional laser guide to be used with the probe holder rack.
SteerROVER-A-CameraMount	Q7201259	Optional camera mount support.
SteerROVER-A-PivotingWeldRack	Q7201258	Pivoting probe holder rack to add weld inspection capability to a SteerROVER-Raster package.
MapROVER-SP-VPH-PA	Q7750121	Vertical probe holder for phased array probe.
MapROVER-SP-VPH-TOFD	Q7750126	Vertical probe holder for TOFD probe.
MapROVER-A-D790-ProbeHolder	Q7750070	Rugged probe holder and mounting fixture for D790-SM dual UT probe.

www.olympus-ims.com

OLYMPUS®

OLYMPUS CORPORATION OF THE AMERICAS

48 Woerd Avenue, Waltham, MA 02453, USA, Tel.: (1) 781-419-3900
110 Magellan Circle, Webster TX, 77598, USA, Tel.: (1) 281-922-9300

OLYMPUS NDT CANADA INC.

3415, rue Pierre-Ardouin, Québec (Québec) G1P 0B3, Tel.: (1) 418-872-1155
1109 78 Ave, Edmonton (Alberta) T6P 1L8

For inquiries - contact
www.olympus-ims.com/contact-us

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