

XR SPIDER SCANNER

PRECISION. POWER. PERFORMANCE.



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ADVANCED AUTOMATION FOR CORROSION MAPPING

The XR Spider Scanner is a high-performance ultrasonic system for automated corrosion and thickness mapping on vessels and pipelines as small as 2 inches. Its magnetic wheel system ensures traction on uneven surfaces, while a parking function lifts the probe for obstacle clearance. With high-torque drive, sealed gearing, and touch-screen controls, it delivers precision, speed, and durability for reliable non-destructive testing (NDT).



SCAN HERE
FOR MORE INFO

XR SPIDER

ADVANCED MOTION. HIGH-RESOLUTION

The XR Spider is built for high-speed, high-torque corrosion mapping across tanks, vessels, and small-diameter piping. Its sealed, low-maintenance drive system ensures durability, while automated controls and adaptive motion settings optimize performance inspections. Designed for harsh industrial environments, the XR features steering-enabled maneuverability, a remote probe lifting mechanism, and no required probe adjustments.

TECHNICAL INFORMATION

SPECIFICATIONS

Drive System	4-wheel direct drive with steering
Speed	13 in/sec (330mm/sec) (Drive) / 29 in/sec (736mm/sec) (Scan)
Torque (Per Drive Section)	80 in-lb (9 Nm) per drive section
Scan Lengths	12 in, 24 in, 48 in (300, 600, 1200mm)
Magnetic Pull	65 lbf per wheel (286 N), 260 lbf total
Wheel Diameter	3.625 in (92mm)
Weight	27 lbs (12" travel) / 29 lbs (24" travel)
Dimensions	4.5 x 9.25 x 44 in (11.5 x 23.5 x 112cm)
Probe Adjustments	None required
Min. Pipe Diameter	2 in (Circumferential) / 12 ft (Axial)
Compliance	10° (Drive) / 8° (Scan) / 1.75 in vertical (45mm)
Sealed Enclosures	Yes
Automated Features	Homing, scan limit protection, probe lifting

SCAN RATES	1 m x 300 mm	1 m x 600 mm
10 x 10 mm	1:11 min	1:55 min
5 x 5 mm	2:15 min	3:30 min
2 x 2 mm	5:21 min	8:35 min
1 x 1 mm	10:36 min	16:47 min

* 30m cable, near maximum acceleration and velocity settings



FEATURES

- ✓ **Environmental Sealing:** Designed for harsh conditions with low maintenance requirements.
- ✓ **Versatile Motion Control:** Steering enabled maneuverability with optimized traction for pipelines and tanks.
- ✓ **Automated Homing & Jog Controls:** Precise positioning with Batt Pack Pro, Mini Controller, or extended joystick operation.
- ✓ **No Probe Adjustments Needed:** Seamless diameter transitions without manual modifications.
- ✓ **Rugged Performance:** High-torque, direct-drive four-wheel system ensures smooth operation on uneven surfaces.