

Analyst™ XR SYSTEM

HIGH-SPEED, C-SCAN INSPECTION



AUTOMATED, HIGH-PERFORMANCE CORROSION MAPPING

The XR Spider System is a fully automated ultrasonic corrosion mapping solution designed for high-speed, high-accuracy inspections. Combining the XR Spider Scanner, X Controller, and Analyst™ XR Software, it delivers continuous, precision scanning with real-time data acquisition. Featuring steering-enabled maneuverability, high-torque motors, and an integrated couplant system, the XR Spider System ensures efficient, repeatable results in industrial environments.

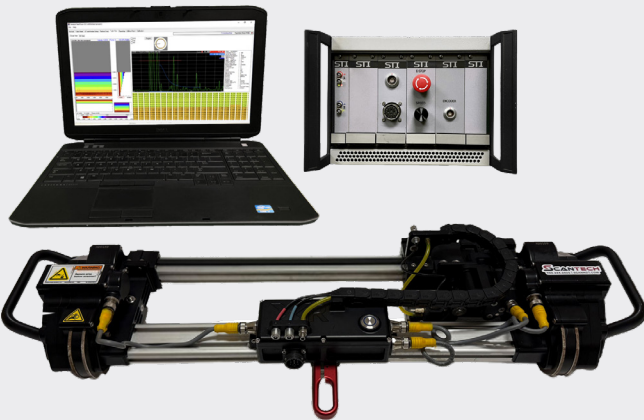
XR SYSTEM

Package Contents

- XR Spider Scanner
- X Controller
- Analyst™ XR Software
- Main Cable Assembly , 100 ft (30 m)
- Rugged Transport Case (x3)
- Transducer
- WS3 Couplant Delivery System
- Notebook PC and Case
- Coaxial Cable

Additional Options:

- Extended Scan and Cable Lengths
- Joystick Jog Control (X-Series)
- Joystick Cable
- Extended Reach Probe Guide



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

Controller Specifications

Power Requirement	90-240 VAC or 12-24 VDC Battery Option
Inputs	Remote joystick cable (optional) Cat6 ethernet cable
Outputs	Scanner control Scanner Power Encoder Signals (option)
Scan Plan Input/ Diagnostic Indicators	Color 1/4 VGA touch screen

Scanner Specifications

Scan Arm Lengths Available	12 in, 24 in, 34 in, 48 in (300, 600, 870, 1200mm)
Over-Travel	approx. 1 in per side (25 mm per side)
Scan Limit Protection	Magnetic sensors
Wheel Diameter	3.625 in (92 mm)
Magnetic Pull Force	65 lbf per wheel (286 N), 260 lbf total
Scanner Weight	
12 in Travel	27 lbs (12.2 kg)
24 in Travel	29 lbs (13.2 kg)
Dimensions:	
24 in Travel	4.5 x 9.25 x 44 in (11.5 x 23.5 x 112 cm)
Standard Transducer	Single element with water column or dual element with contact
Shoe Compliance	10° Drive axis 8° Scan axis 1.75 in vertical (45mm)
Probe Angle Adjustments	None Required
Minimum Diameters:	
Circumferential Scan	2 in (63.5 mm) Nominal Pipe
Axial Scan	12 ft (3.6 m)
Steering	Yes
Sealed Enclosure	Yes

Scan Axis Specifications

Speed	29 in/sec (736 mm/sec)
Actuator Force	20 lbf (89 N)
Encoder Resolution	11,053 cts/in (435.16 cts/mm)

Drive Axis Specifications

Speed	13 in/s (330 mm/s)
Torque (Per Drive Section)	74 in/lb (9 Nm)
Encoder Resolution	3081.767 cts/in (435.16 cts/mm)