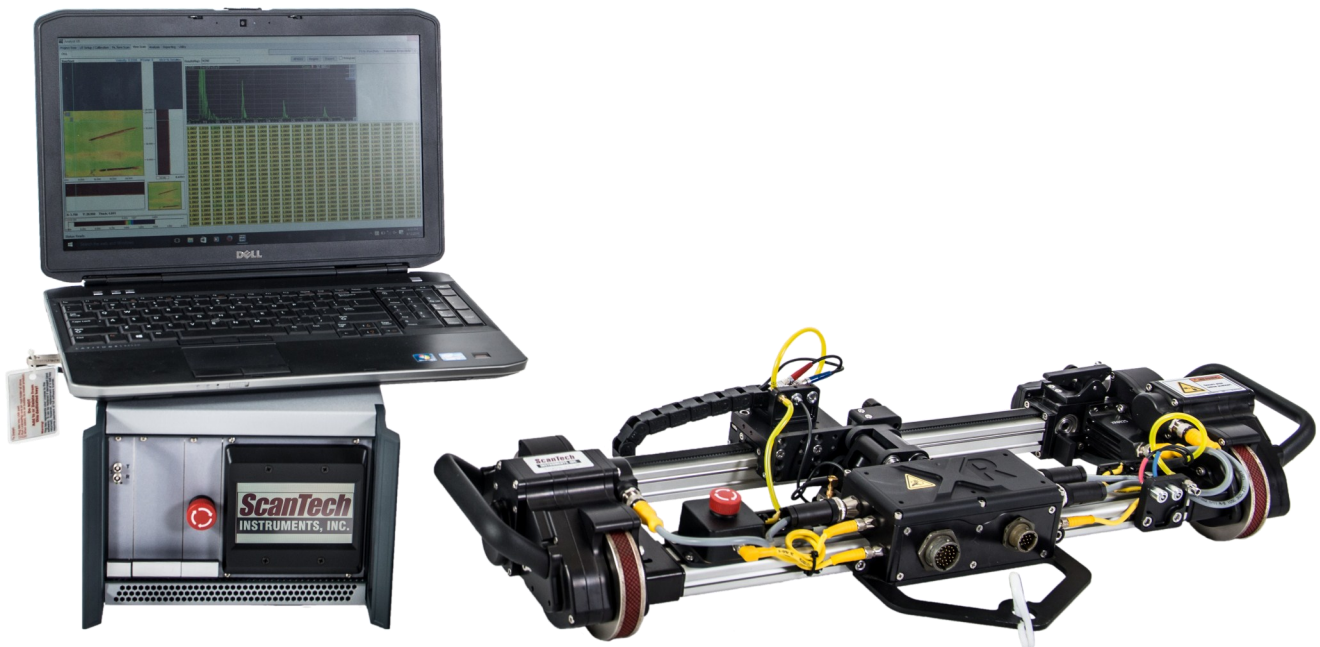




XR Spider

Automated, C-Scan Corrosion Mapping System



The XR Spider is an innovative ultrasonic scanner that addresses the need for an automated raster type unit. It offers higher performance and durability over an extended range of applications. The scanner traverses large vessels with obstacles that are problematic for most tank crawlers. It is capable of performing corrosion scanning on pipes as small as 2" while requiring no probe adjustments over the range.

The scanner offers high maneuverability via steering with the controller's touch screen interface or optional extended joystick. A parking function lifts the advanced transducer/coupling shoe assembly for crossing over larger obstacles. High scanning speed is achieved without sacrificing high torque and actuator force, and the specially engineered gears are coupled directly to all four wheels through a compact, sealed enclosure for durability and low maintenance. A home positioning routine is utilized with solid state end sensors for collision control. This rugged scanner provides highly accurate, high speed scanning for a wide variety of industries.

System Features:

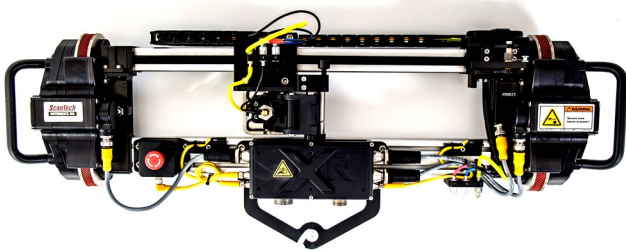
- > Custom engineered gears with direct coupled four wheel drive
- > Custom stroke lengths up to 48 in.
- > Engineered for rugged environments
- > Joystick or touch-screen steering controls
- > Proprietary low EMI noise motor drives
- > No pipe diameter adjustments required
- > High power and high torque motor drives

Package Contents

- XR Spider Scanner
- X Controller/UT Instrument with Touch Screen
- 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) |



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