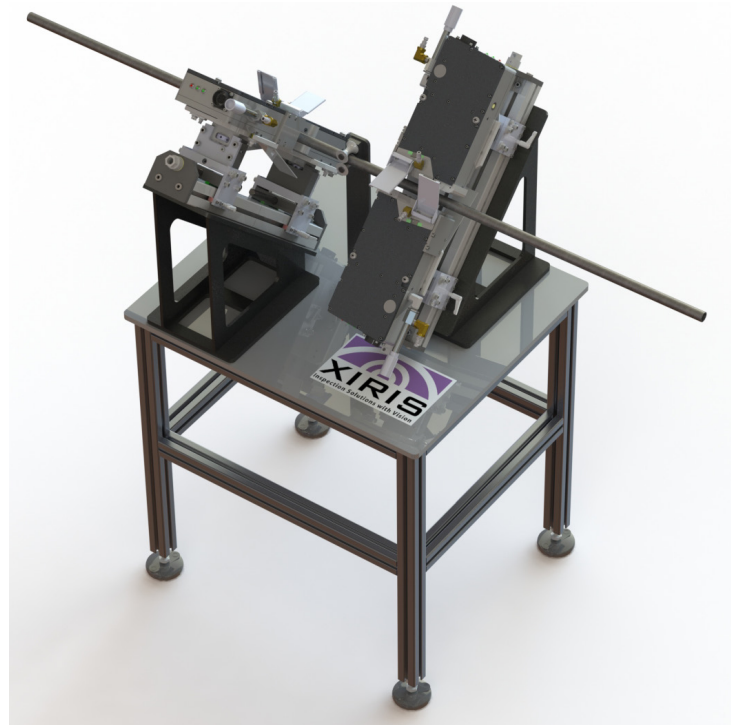


Better Images. Better Decisions. Better Process Control.

Protective coatings on metal tubing are critical to the overall performance of precision tubing used for automotive, aerospace, and communication applications. These protective coatings provide additional abrasion and corrosion protection which is crucial in these industries. Ensuring that these coatings are scratch-free is essential as surface scratches can provide a leak path for fluids in mission-critical applications.

Ensuring that these coatings are scratch-free can be challenging, as high-resolution sensors and powerful software algorithms are needed to correctly identify any surface defects. To meet this need, Xiris has developed the **WI-2200 - 360°**, a combination of four laser triangulation sensors that have been specifically designed for the tube mill environment and are mounted around the tube to provide a full 360° inspection of the tube surface.



Key Features

- Four WI-2200 sensors arranged in pairs to ensure 360° coverage of surface scratch detection with overlap.
- High precision vertical resolution down to 8µm, capable of detecting very small changes in surface conditions.
- Advanced software with powerful scratch detection algorithms with tube movement tolerance.
- Sensors use eye safe Class 2 lasers; Laser guarding is not required, although always recommended.
- Integrated Laser Safety interlocks for added protection.
- Configurable, complete industrial inspection system with range of sensors suitable to different tube sizes, including HMI controller, operator indicators and alarms, external data interfaces and other accessories that can be integrated into the mill.
- Full data recording and interactive GUI with real-time results, warning and alarms, and thresholds, providing operators the tools they need.

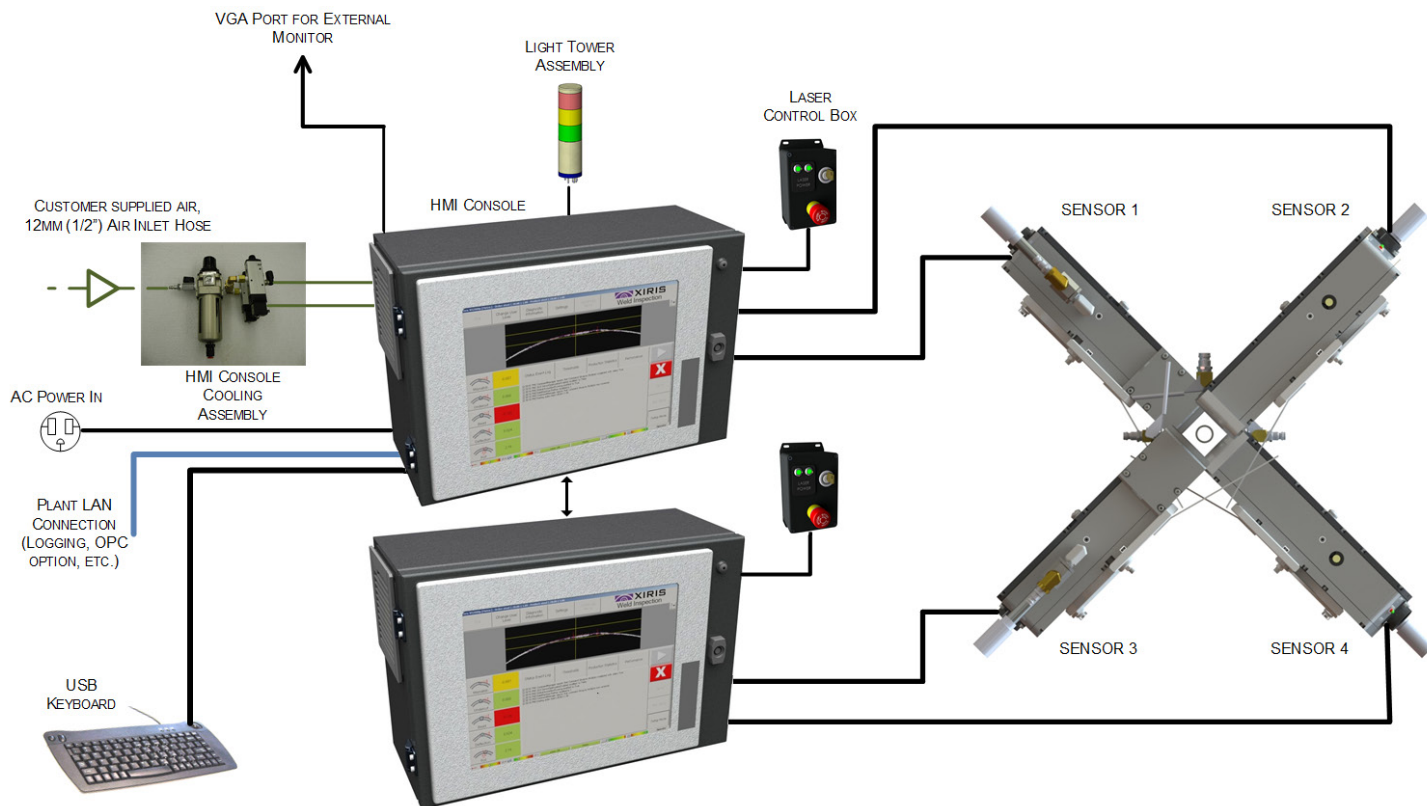
Configurations

Sensor Configuration (x4)	Min-Max Tube Size	Resolution	Inspections per second
WI2200 SR5	Ø 4 – 8 mm	8 µm	200
WI2200 HR9	Ø 6 – 11 mm	11 µm	100
WI2200 HR12	Ø 9 – 15 mm	13 µm	100

Other configurations are available – contact factory for details.

Xiris® WI-2200 - 360° Scratch Inspection

System Outline



WI-2200 - 360° Scratch Inspection System Specifications

WI-2200 Sensor	Min. 100 frames /sec @ 1024 x 250 pixels frame size. GigE interface to HMI.
Sensor Head (QTY 4)	128 mm (5.0") (W) X 59 mm (3.1") (D) x 244 mm (9.6") (H); 4.0 Kg (9lb)
WI-2200 Laser Power	Class 2
HMI Enclosure	Industrial enclosure with 15" Touch Screen LCD 485 mm (19.1") (W) X 212 mm (8.4") (D) x 340 mm (13.4") (H); 15.5 Kg (34lb)
GUI Languages Supported	English, German, Spanish, Portuguese, French, Dutch, Japanese, Chinese. Others on request.
Machine Interfaces	4 Digital Inputs (24VDC, NPN or PNP); 4 Digital Outputs (24VDC for Dry Contacts). Connection for Marking System (Encoder Inputs / Sprayer Outputs) OPC (Optional)
Compressed Air (Sensors and HMI) Requirements	Clean, Dry Air up to 1100 L/min @ 6 bar (40 cfm @ 90 psi)
Electrical Power	100 –240 VAC, 500 watts, 50-60 Hz,
Compliance	CE, FCC-B, RoHS, IEC6100-4-2 Level 4, IEC6100-4-4 Level 4 Electrical Immunity
Operating Conditions HMI	10-50 °C (50-122°F): 20- 90% Relative Humidity (Non Condensing)

Specifications are subject to change from time to time without notice.

Please contact your Xiris sales Representative for further information.



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