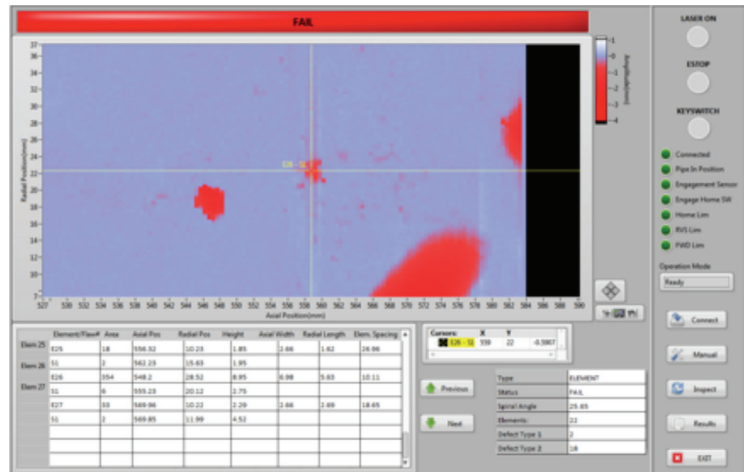
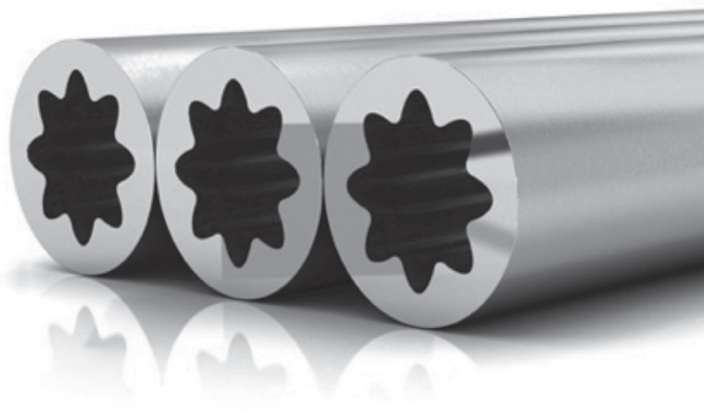
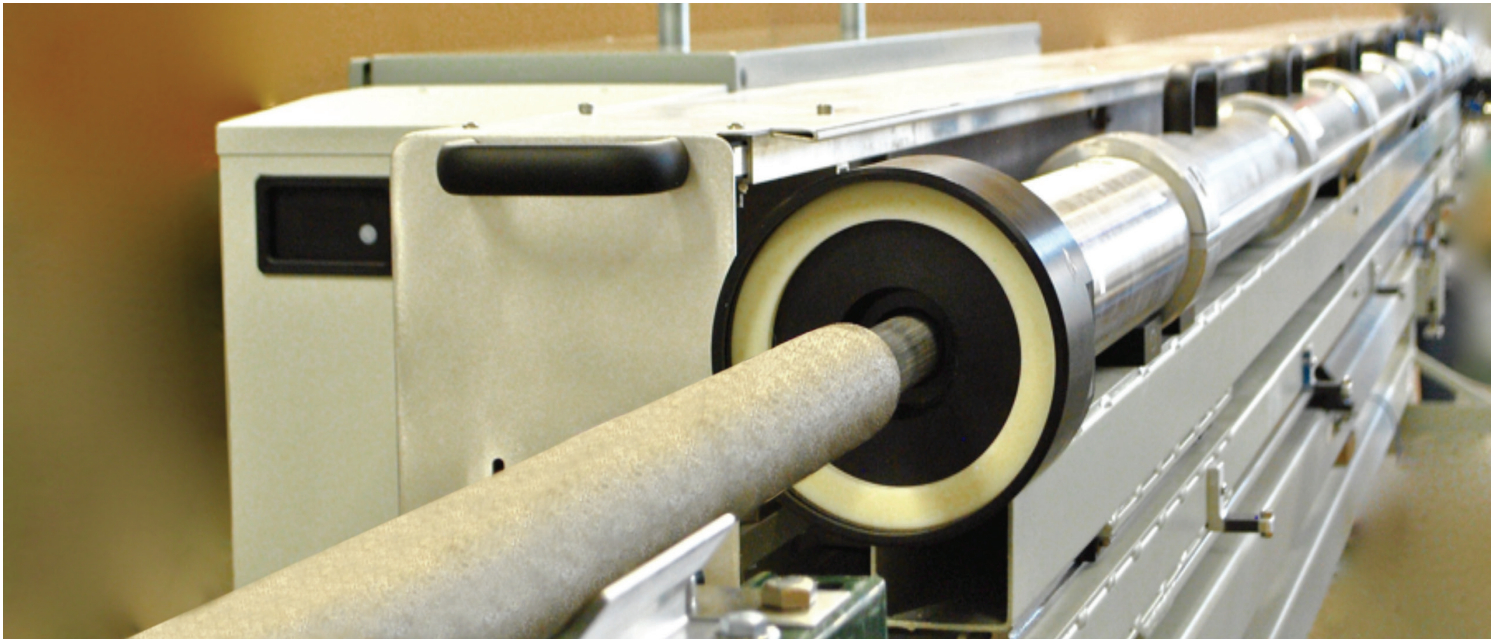


LOTIS[®] QC-80

RAPID ETHYLENE FURNACE TUBE INSPECTION



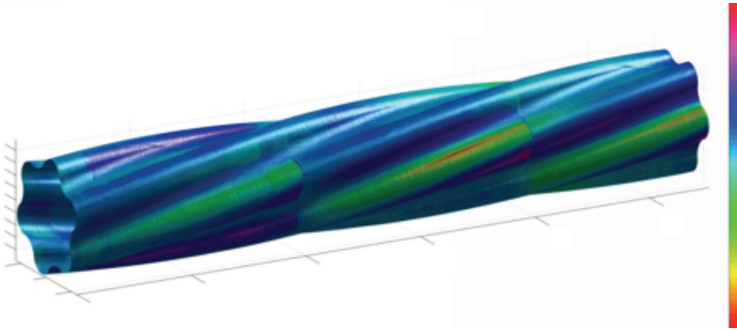
Using our advanced non-contact laser optical triangulation probe technology, the LOTIS[®] QC-80 is capable of rapidly scanning, detecting, and accurately measuring internal elements found in ethylene furnace tubes. The easy-to-use and fully-automated system provides quantitative measurements for optimal quality and process control of internal features found in Element and Finned tubes.



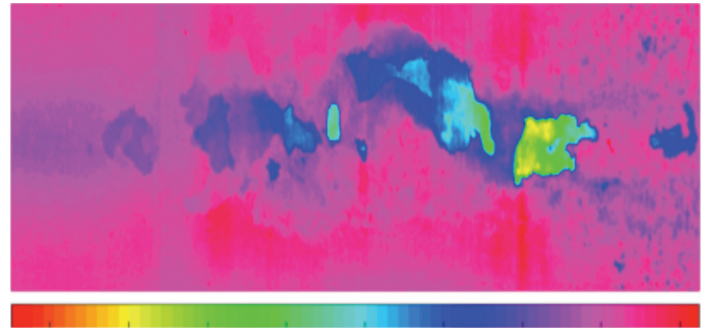
QUALITY IN ENGINEERING, SCIENCE & TECHNOLOGY

QUEST Integrated, LLC
 Quest Center
 19823 58th Place S, Suite 200
 Kent, Washington 98032 USA
 253.872.9500 | www.Qi2.com

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3D Scan of Progressive Cavity Pump



Corrosion Map in Process Piping

FEATURES

Utilizing a high-power laser, the QC-80 provides fast scans and high-resolution data for tubular structures. In a single scan cycle, our proprietary software automatically and accurately locates dimensional qualities, as well as surface defects. This is the only non-contact system available to inspect the internal profile of ethylene furnace tubes, including Element and Finned tubes.

Performance Specifications

Function	Internal profiling of reformer tubes providing measurement and characteristics of internal elements
Designed Use	Provides go/no-go decisions for finished product based on pre-set tolerance parameters
Bore Size	35mm to 70mm (ID)
Maximum Tube Length	4500mm
Spiral Angles	No limit
Element Range	No limit
Insertion Speed	≤ 200 mm/s
Circumferential Scanning Resolution	1 sample per 0.16 - 0.33mm**
Axial Scanning Resolution	1 sample per 0.25 - 0.50mm**
Maximum Axial Inspection Speed	15mm/s

System Specifications

Verification	Automatic scan verification using test ring
Pipe Engagement	Automatic axial tube engagement
Reporting Format	Excel report providing index of elements, sputter, and height/width of elements
Data Storage	Files saved with time stamp, serial number, and inspector information

** Varies depending on tube diameter and scanning speed that can be set in a graphic user interface.



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