Tube Inspector

3D inside tube inspection

Description

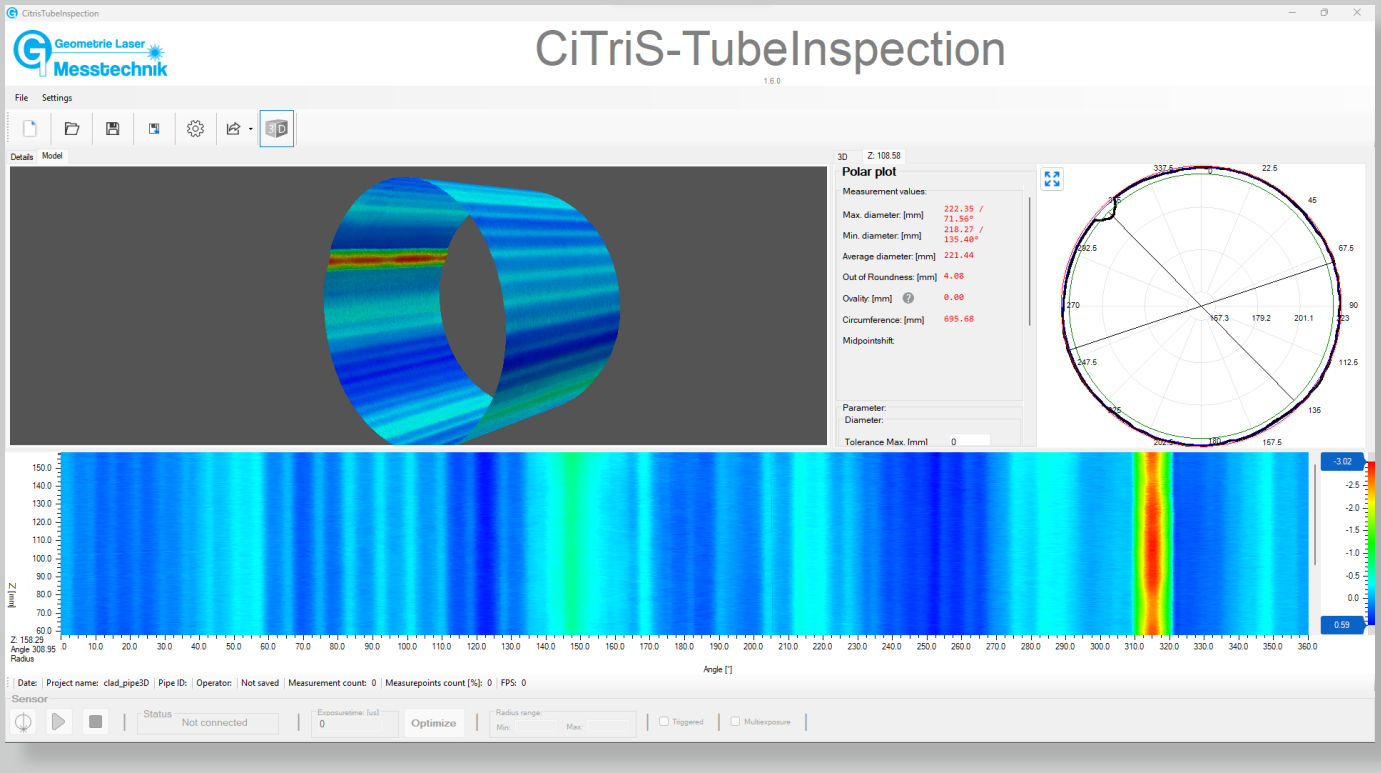
The Tube Inspector provides a 3D inside tube inspection based on CiTriS (Circular Triangulation Sensor).
CiTriS is mounted on an extension arm. For the scanning process the sensor will be traveled out of the housing into the tube. The result is a precise 3D model of the internal tube geometry.

Pipe-scanning via Tube Inspector

Functions

- ✓ 2D-section scan
- ✓ 3D-model
- ✓ Min-/ max-diameter
- ✓ Ovality
- ✓ 3D-scan of 200 mm depths
- ✓ Derivations in pseudo coulor
- ✓ Radial and lateral dimensions of derivations

Software



Screenshot of analysing a 2D-section of the 3D-model.
3D-scan of pipe ending with welding and welding preparation.
Each measured plane can be analysed in 2D.

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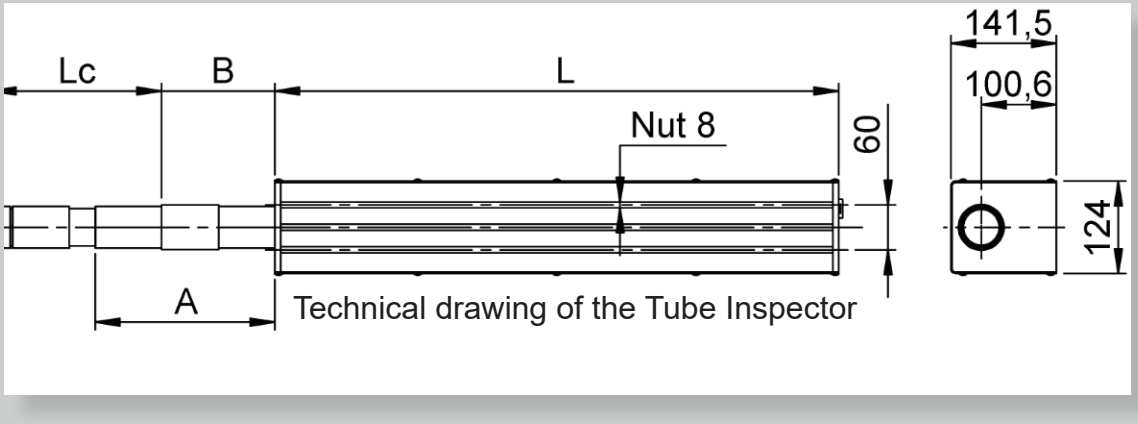
Geometrie Laser CONTROL

Specification:	All models
Typ of sensor	CiTriS - Circular Triangulation Sensor
Laser class	II M, Circular laser (visible)
Data interface	Ethernet
Power Supply	24 V DC
Housing	Steel
Operating temperature	10–40 °C
System calibration	ISO9001 EN (calibrated)
EC conformity declaration	CE certified

CiTriS-model	60-140	110-120	180-340	300-620	550-960
Lc [mm]	292	244	289	392	525
Tube Ø range [mm]	60-140	110-120	180-340	300-620	550-960

Scanning path A [mm]	200 (optional longer)
Housing length L [mm]	Depending on configuration



Technical drawing of the Tube Inspector

Computer
22“ Multi Touch
Core i5
8 MB RAM
2X Gigabit LAN
USB2:0 + USB 3.2

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