

# Pipe Section Scan

## 2D-evaluation of pipe-endings



The system measures the inner cross section contour of the pipe end. Pipe Section Scan includes the sensor and also the mechanical component to position the CiTriS quick and precise.

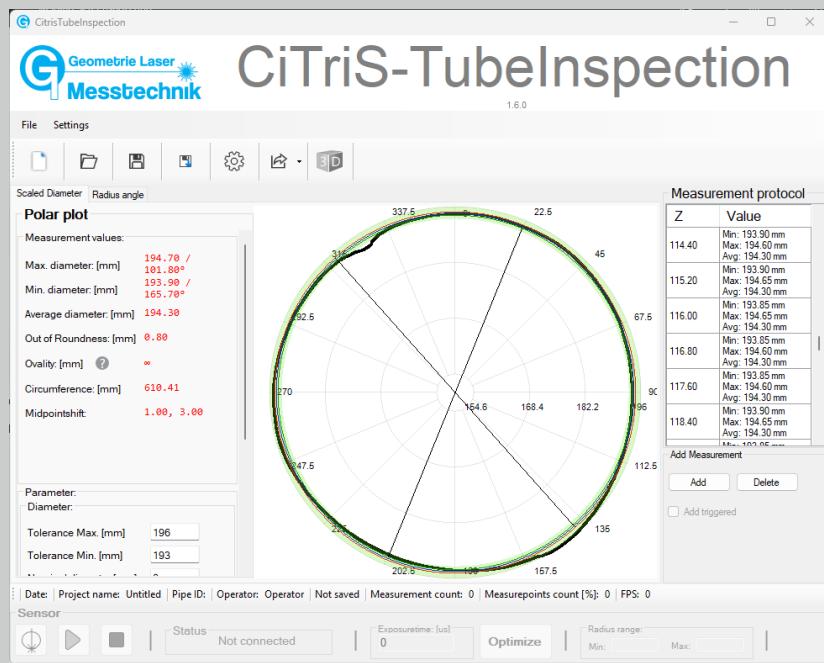
The included software calculates the full 2D-profil and all parameters, which are used to display tolerances and evaluate the calibration process of pipes.

### Functions

- ✓ Optical measurement system for pipes
- ✓ Exactly internal profil
- ✓ Evaluation of calibration process
- ✓ Fast, easy to handle and precise
- ✓ Measure time < 1 sec.
- ✓ Non contact measurement
- ✓ Industrie 4.0



CiTriS tube measurement



2D CiTriS Tube-Inspect, shows the 2D measured section

### Results

- 2D contour
- Radius of 3600 angle positions
- Diameter of 1800 angle positions
- Max/min/avg diameter
- Ovality
- Circumference
- Tolerance adjustment
- Ideal surface enlargement
- Center correction
- CSV-report

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### Specification:

Typ of sensor	CiTriS - Circular Triangulation Sensor				
Laser class	II M, (visible)				
CiTriS models (1 sensor included):	60-140   110-120   180-340   300-620   550-960				
Measurement range Ø ID [mm]	60-140   110-120   180-340   300-620   550-960				
Data interface / Power supply	USB 3.0				
Software	2D CiTriS-Tube Inspect				
Scanning Time	<1 sec				
Operating temperature	10–40 °C				
System calibration	ISO9001 EN (calibrated)				
EC conformity declaration	CE certified				

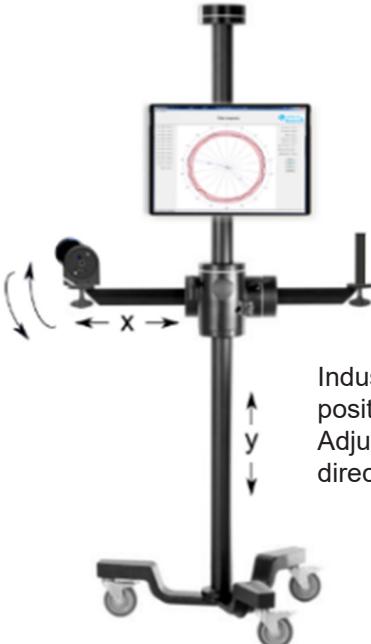
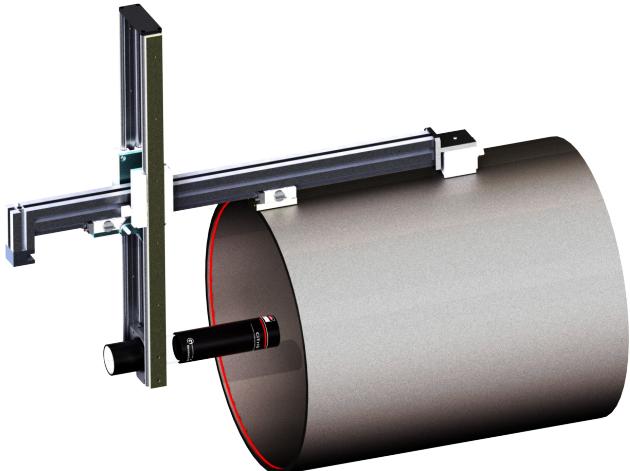
### Mechanical mounting options:

#### CiTriS tripod:

- ✓ fast positioning on tube endings
- ✓ customized CiTriS mount
- ✓ 2-axis linear adjustment
- ✓ Tablet with holder

#### CiTriS stand:

- ✓ internal tube positioning
- ✓ customized CiTriS mount
- ✓ adjustment to different tube diameter
- ✓ mounted screen



Industrial stand for  
positioning of CiTriS.  
Adjustment on x- and y-  
direction pipe ending.