



Online 3D Mesurement System for Pipe Diameter for CİMTAS BORU İMALATLARI, TURKEY, 2018

GENERAL TECHNICAL CHARACTERISTICS

Measurement range and accuracy

- Diameter measurement range: 16" to 66":
- Measurement accuracy
 - Diameter:
 - ± 0.15 mm (in the range 36"-42") - 2σ
 - ± 0.20 mm (in the range 26"-34") - 2σ
 - ± 0.20 mm (in the range 16"-24") - 2σ
 - Out-of-roundness: ± 0.6 mm - 2σ
 - Total Straightness: ± 1.0 mm - 2σ
 - Local Straightness: ± 0.2 mm - 2σ
 - Length: ± 5.0 mm - 2σ for 12 m long pipes
 - Weld seam height
 - ± 0.1 mm - 2σ (if the pipe comes with the weld at 12 o'clock)
 - ± 0.3 mm (if the weld is in another position).

- Measurement time: 0.1 sec.
- Measurement rate: 1 measurement/sec.
- Real time response/sensor < 0.001 sec.

Remark: All the sensors are triggered to measure simultaneously, which means a measurement represents a cross section of the pipe.