

Pipe manufacturing inspection



Functionality

- Teleinspection
- High precision Profilometry
- Pipe length control
- Pipe 3D-model reconstruction
- Thickness measurement (under development)
- Non-destructive testing (under development)

This configuration of the robot was specifically adjusted to inspect pipes in the manufacturing.

It provides teleinspection. If it's needed, the NDT equipment or any other sensors/tools might be installed as well.

Key features: a) Velocity; b) High inspection precision; c) Wide diameters range; d) Possibility of hardware peripheral connection.

Velocity	≥ 11.1 m/min
Diameters	100÷1420 mm
Weight	< 4.2 kg
Temperature range	-5°C to 40°C
Defects localization precision	< 0.05 m / 100 m
Surface defects detection precision	up to 0.3 mm
Metal structure defects detection precision (<i>under development</i>)	up to 5% of a pipe wall thickness
A pipe wall thickness that might be inspected by the NDT (<i>under development</i>)	< 25 mm
Power supply	Cable / Accumulator