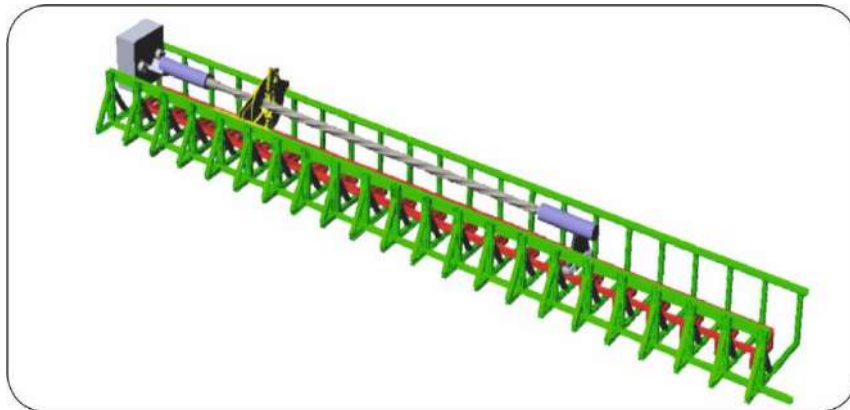


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*Fully Automatic Scanner For Check Of External Surface Of Pipes  
Rotors And Other Objects With A Form Of Cylinder*

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## Description

The scanner quickly and with a high accuracy measures geometrical parameters of the outer surface profile. Measurements can be made in as many cross-sections as necessary in both manual and automatic modes.

Pipe to be measured is loaded by a crane (not included) and then mounted in three/four jaw chucks (lathe-like principle) or on prisms (for large diameters). O-like measurement head moves along the pipe. Two 2D scanners, located in the head, rotates permanently during measuring so that the 3D cloud of the external surface is taken. The software computes needed parameters, displays 3D model and deviation from the reference model. The software allows to create 3D colour maps and 2D blueprints visualization as well as conventional reports.

Emergency stop button launches the safety algorithm in case of any troubles. The scanner meets the high requirements of European standards of personnel safety. The light barrier eliminates any risk of access to the rotary table area during the conveyor rotation.

The system can be adapted to your type of cylindrical parts

## Measurable Parameters

- Ovality
- Length
- Outer Diameter
- Deviation From The Form
- Distance Between Peaks And Troughs Of The Profile

## Specifications

Outer Pipe Diameter:	20 mm to 500 mm *) Different Fixtures Are Needed
Pipe Length:	400 mm To 12000 mm
Measurement Accuracy:	0, 1 mm
Compressed Air For Chucks:	4 To 8 Bar
PC Requirements:	Windows 7 64x And Higher, USB Plug
External Interfaces:	Ethernet, TCP/IP, Wi-Fi

## Environmental Conditions

Ambient Temperature:	10°C + 55°C
Air Humidity:	L98 % or Less
Atmospheric Pressure:	450 to 780
Power:	380 V / 50 Hz / 6000 W
Overall Dimensions:	14000 x 1500 x 1500 mm
Weight:	2400 kgs

## Features

- Accuracy Up To  $\pm 0,1$  mm
- Pipes Length Up To 12 mtrs
- Light Safety Barriers By Pilz
- Manual And Automatic Mode
- Self-Diagnostic And Safety Algorithm
- Pipes Outer Diameter From 20 mm To 500 mm
- Non-Contact Optical Measurement (Two 2d Scanners)
- Pairing With External Robots/Cranes For Loading/Unloading
- Pipes Are Mounted In Three/Four Jaw Chucks (Lathe-Like Principle) Or On Prisms

Software interface and manuals are available in English and German.

