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FRATELLI ROTONDI

40-ACCURACY MASTER

MEASURING WITH THE MAXIMUM CONFIDENCE THROUGH THE MACHINE VISION
ENSURING REPEATABILITY EVEN IN THE PRODUCTION DEPARTMENT



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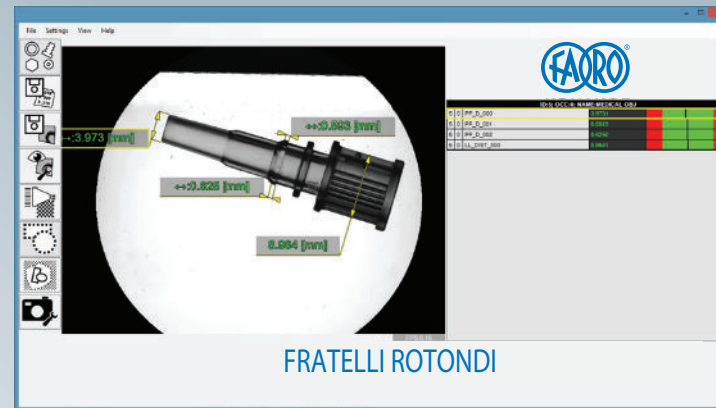
THE SYSTEM

Accurate automatic measurement

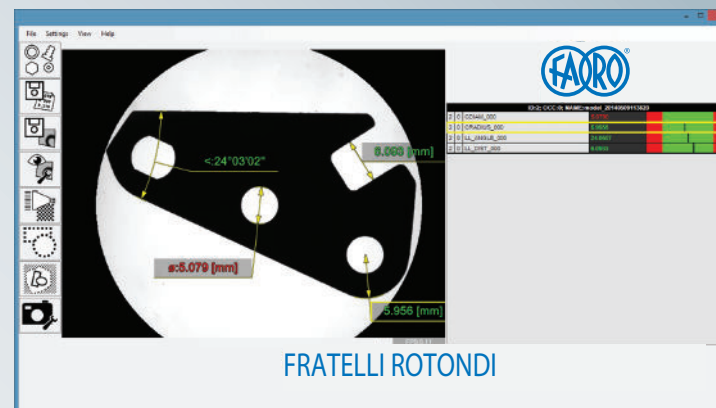
40-Accuracy Master is a tool for automatic optical 2D measurement. The details are measured regardless of type, shape, material and surface finish of the sample.

It is possible to have linear and angular measurement, diameter and circumferences measurement, mechanical interferences evaluation, roundness factor and interaxes. Simultaneous measurement of multiple models in real time with the availability of statistical elaboration in post processing.

The robust technology of 40-Accuracy Master allows you to obtain accurate and stable measurements in a production environment, even in the presence of dust and vibrations.



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KEY ADVANTAGES

What makes the difference

- ✓ User friendly (only a technology usable by everyone becomes a real advantage)
- ✓ Compact size
- ✓ Installation flexibility
- ✓ Extreme reduction of downtime (thanks to the real-time measurement technology)
- ✓ Compatibility with systems for automated controls
- ✓ Cost effective with no compromise on quality

APPLICATIONS

Who uses this technology



Coils and Springs



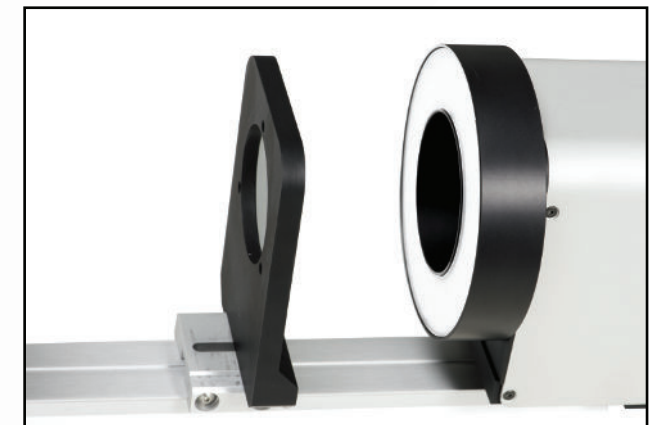
Pipes and Shafts



Mechanical parts



Seals and o-rings



GENERAL SPECIFICATIONS

Field of View	40 mm of diameter
Depth of Field	20 mm
Accuracy ($\pm 2\sigma$)	$\pm 10 \mu\text{m}$
Weight	4 kg
Dimensions	400 x 160 x 95 mm

OPTICAL SPECIFICATIONS

Lens		Bi-Telecentric
Working distance	mm	103,5 \pm 3
Working F-number		8
Telecentricity	typical (max)	degree
		< 0,04 (0,08)
Distortion	typical (max)	%
		< 0,03 (0,08)
CTF @ 70 lp/mm		%
		> 50
Magnification		0,133 \pm 3 %

HARDWARE SPECIFICATIONS

External Output	I/O digital USB	optional standard
Mechanics	material environmental conditions	anodized aluminum 10 \div 60 °C
Illumination	backlight ringlight voltage	standard (LED) optional (LED) 24 V