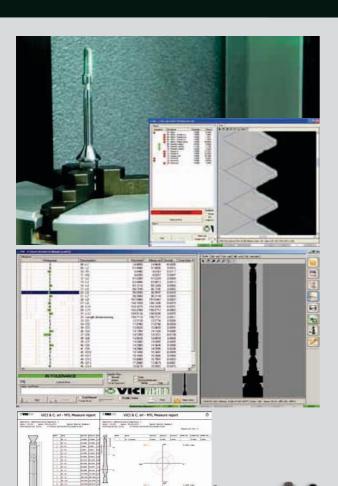


Optical measuring machines for Turned Components



COMPLETE

For complete and accurate control using a single tool.

The quality control is an operation as much heavy as many are the phases necessary for its execution. For this reason, carrying out all measurements with a single tool means saving time, manpower and improving the accuracy of control.

Static measurements

- > Diameter
- > Length
- > Angles
- > Radius
- > Distances and angles between points and straight lines
- > Average sphere diameter

Geometric measurements:

- > Symmetries

Thread measurements:

- > Parallelisms > Perpendicularities
- > Nominal diameter > Minor diameter
- > Pitch diameter
- > Crest angle
- > Pitch
- > Roller quota

Shape and rotation measurements: > Rotation diameters

- > Circularity
- > Coaxiality
- > Run-out
- > Cylindricity
- > Angular timing

Nut measurements:

- > Keys
- > Asymmetries
- > Angular timing between faces



Optical measuring machines for Turned Components

TECHNICAL DATA

MODELS	MTL X5	MTL 250	MTL 300 Evo	MTL 500x60 Evo MTL 500x60 Ergon MTL 850x60 Ergon	MTL 500x120 Evo MTL 500x120 Ergon MTL 850x120 Ergon MTL 1250x120 Ergon
Measuring range	100x16 mm	270x40 mm	270x40 mm	500x60 mm (MTL 500) 870x60 mm (MTL 850)	500x120 mm (MTL 500) 870x120 mm (MTL 850) 1270x120 mm (MTL 1250)
Max loading piece (according to weight limits)	270x90 mm	270x90 mm	300x90 mm	500x180 mm (MTL 500) 870x180 mm (MTL 850)	500x180 mm (MTL 500) 870x180 mm (MTL 850) 1250x180 mm (MTL 1250)
Measurement accuracy on diameter	(2+D[mm]/100) μm	(2+D[mm]/100) μm	(2+D[mm]/100) μm	(2+D[mm]/100) μm	(2,5+D[mm]/100) μm
Measurement accuracy on height	(5+L[mm]/100) μm	(5+L[mm]/100) μm	(5+L[mm]/100) μm	(5+L[mm]/100) μm	(5+L[mm]/100) μm
Measurement repeatability on diameter	0,4 μm	0,4 µm	0,4 µm	0,4 μm	0,6 μm
Measurement repeatability on height	3 µm	3 µm	3 µm	3 µm	3 µm
Power supply	230 V - 50/60Hz				

No compressed air required

Data indicated refers to measurements taken with a temperature of 20°C on clean and rectified surfaces. Data may vary according to shape and surface condition of the pieces.



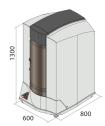




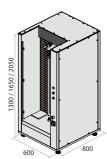




MTL 300 Evo



MTL 500 Evo



MTL 500 Ergon MTL 850 Ergon MTL 1250 Ergon





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Multisensor Measurements for Manufacturing Professionals