



IBB TECHNOLOGY

PREMION | O




Intelligent Bridges to Best Quality.

# PREMION |

**The affordable solution for measuring turned parts in your production!**

**PREMION**  is the automated version of the PREMION series using a purely optical measuring system.

A high-resolution matrix camera enables  $\mu$ -precise measurement on rotationally symmetrical Workpieces. The automated measurement process delivers reproducible and operator independence measurement results.

**PREMION**  is designed for the measurement of shafts in your manufacture right next to your production machines.

## | APPLICATION

All measurements on rotationally symmetric parts may be produced in a matter of seconds directly in production. This means a considerable win of time and therefore a great cost advantage for your production!

## | CONSTRUCTION

On a stable casting base the high-precision guides are installed with automatically traversing optics system. The working on the parts takes place between the adjustable tailstock and the driven precision spindle with encoder.

## | HANDLING

The workpiece is interposed by the operator. The handling is intuitively done via a touch screen. All features will be automatically measured according to the programmed measuring sequence. The measurement results are displayed on the touch screen taking into account all tolerances and are automatically saved in PDF and DFQ formats (with Q-DAS after AQDEF certified).

## | POSSIBLE MEASURING OBJECTS

All rotationally symmetrical parts.

## | RANGE

Length: max. 400 mm

Diameter: max. 60 mm

## | ERROR LIMITS

Length:  $(4 + L/100) \mu\text{m}$ ,  
L = Length in mm

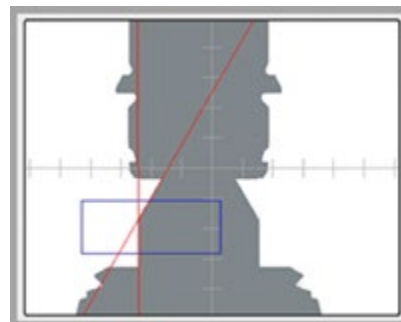
Diameter:  $(1 + L/100) \mu\text{m}$ ,  
L = Length in mm

## | MAIN MEASUREMENTS

Length, diameter, run-out, radius, angle, etc.



Overview



Measuring live



No.	Measur.	Start	End	Q. Tol.	U. Tol.	Research	Drift
1	Ø1	22.8750	22.8725	0.0025	-0.0025	-0.0025	1
2	Ø2	27.8757	27.8729	0.0029	-0.0029	-0.0029	1
3	Ø3	31.8766	31.8759	0.0029	-0.0029	-0.0029	1
4	Ø4	36.8668	36.8668	0.0020	-0.0020	0.0020	1
5	Ø5	38.7628	38.7628	0.0020	-0.0020	-0.0020	1
6	Ø6	22.8668	22.8623	0.0023	-0.0023	0.0023	1
7	L1	4.3810	4.3762	0.0023	-0.0023	0.0023	1
8	L2	3.3810	3.3228	0.1000	-0.1000	0.0187	1
9	R1	0.0024	0.0124	0.1000	-0.1000	0.0062	1
10	R2	0.0024	0.1748	0.1000	-0.1000	0.0024	1
11	R3	0.0025	0.2888	0.1000	-0.1000	-0.0062	1

Display of results



Zoom function