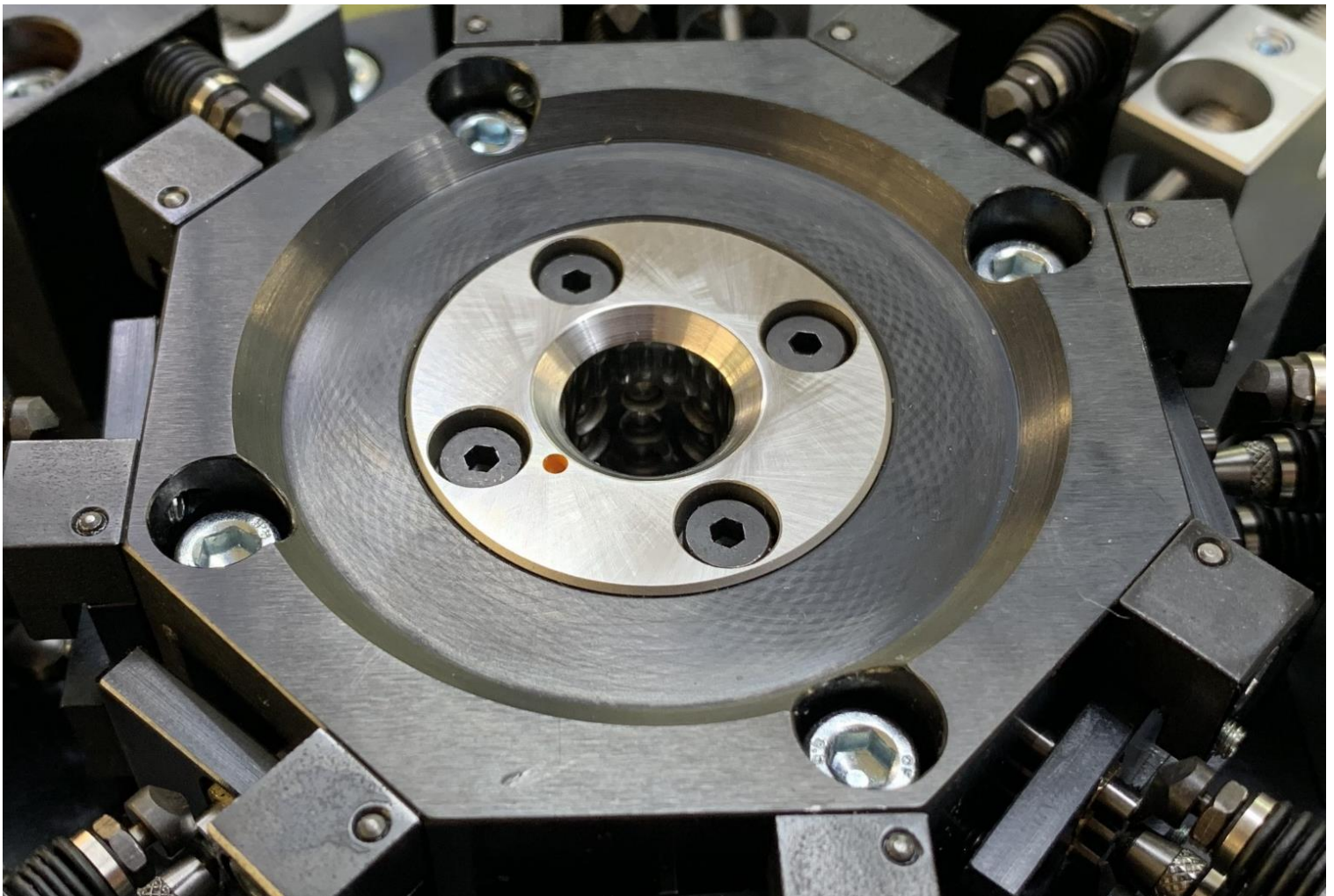




ENGINEERING
by Messtechnik

Measuring device for outer - cone



The universal outer cone measuring station

The use of tactile probes in combination with VARIOsoft offers a universally applicable measuring device for a variety of different outer cones.

An overview of the advantages:

- Short measuring times with highest accuracy
- For 100% control directly next to the processing machine
- Easy changeover for different workpieces
- Integrated VARIOsoft for measurement data analysis and documentation



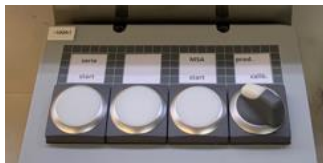
Measuring device

Diameter, cone angle, straightness and roundness

Over three measuring levels equipped with 25 tactile probes, various external cones are measured and documented in a short time. Through oriented insertion, repeat measurements in the 0.1µ range are possible.

The two characteristics diameter and taper angle are calibrated via the setting master.

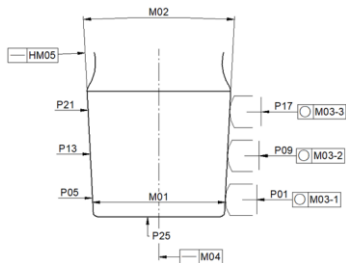
Measuring time: approx. 4 seconds (without workpiece handling)



Control box

Operation

The measuring device is mainly operated by 1 start button for the series. The selector switch selects a production measurement or a reference measurement. The different workpiece types are defined and selected in VARIOsoft on the PC.



Ex. definition of characteristics

Characteristic	Nominal (mm)	UT (µm)	LT (µm)	Tol.- Field (µm)	Probe	Remarks
M01	Ø 12.68	20	-20	40	P01-P08,P17-P25	Diameter height 1.4
M02	5.66°	0.03	0.03	0.06	P01-P08,P17-P24	Angle
M03-1	0	7	0	7	P01-P08	Roundness
M03-2	0	7	0	7	P09, P16	Roundness
M03-3	0	7	0	7	P17 - P24	Roundness
M04	0	3	0	3	P01 - P24	Straightness cone axis



Typical workpieces

Options:



Barcode scanner for order entry and selection of the respective inspection plan



User recognition with fingerprint reader. Automatic assignment of the user interface to the various programming levels in VARIOsoft.

