



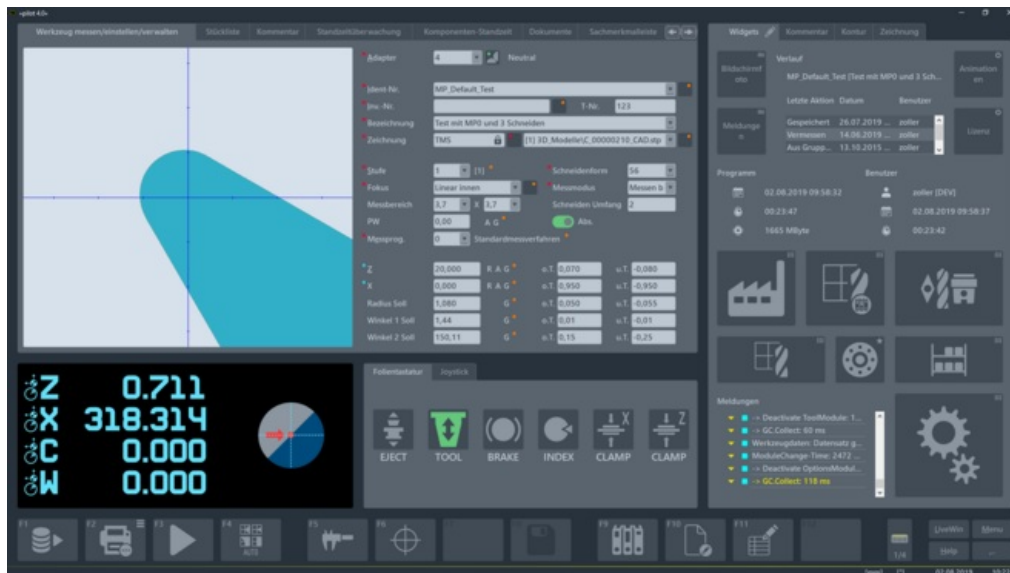
Measuring Machine »hobCheck«

Hob Cutters Completely and Fully Automatically Measured

Highlights

- Efficient
Tooth for tooth: fully automatic complete measuring of hard metal or HSS milling cutters
- Extensive
Fully automatic complete measuring of the parameter according to DIN 3968
- Distortion-free
CNC-controlled, swiveling optic carrier for distortion-free measuring of the tooth form
- Fully automatic
Intelligent combination of image processing technology, CNC axes and measuring sensor
- Robust
Seamless documentation of the extensive measurements according to DIN 3968
- User-friendly
Software with intuitive graphical user interface for easy creation of measuring procedures, simple and complete measuring, or re-measuring of individual parameters

Software



Modern design and even more features: The software for all-inclusive tool measurement

»pilot 4.0«

- Graphic rich, self-explanatory user interface
- All features are easily accessible
- Large click and touch areas
- Photorealistic input interface
- Dynamic crosshairs
- Self-explanatory function keys
- Automatic cutting edge shape recognition
- Automatic zero point monitoring
- Clear and precise cutting edge display and inspection
- Tool and adapter management
- Tool identification
- Test report output
- Data transfer to the machine tool and interfaces to external systems

and many other functions and options

► more

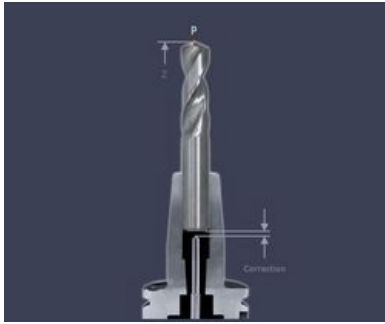
Technical data

»hobCheck«

Measuring range Z	Measuring range Y
540 mm (21.3 inch)	40 mm (1.6 inch)
Measurable external Ø	Snap gage Ø
360 mm (14.2 inch)	60 mm (2.4 inch)
Max. measurement depth button	Max. measuring length face
30 mm (1.2 inch)	300 mm (11.8 inch)
Max. tool weight	CNC-controlled optic carrier swivel device range
100 kg (220.5 pounds)	± 30°
Tool lengths tailstock	
100 - 600 mm (3.9-23.6 inch) (Option)	

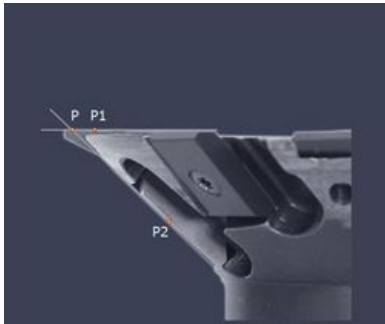
Note: Using adapters and attachment holders can reduce the indicated measuring range in some circumstances. Axial/face measurements with the incident light camera in combination with the tailstock are not possible.

Measurement programs



Cylindrical Reamer - Face Cutting Edge

Measuring program for the measurement of single cutting edge reamers with face cutting edges.



Conical Reamer - Snap Gauge Method

Measuring program for the measurement of single-edge reamers with support bar and with the snap gauge method.

Your benefit



- »hobCheck« with unique analysis software
- ZOLLER mechanics — precise, ergonomic, reliable
- The ZOLLER »pilot« image processing software — quick, intuitive and unmatched in the industry

The Quantum Leap in the Complete Control of Hob Cutters

»hobCheck« opens up never-before seen possibilities for the fully automatic, efficient and complete measurement of milling cutters, even those with considerable sizes.

With transmitted light image processing, incident light camera and measuring sensor, more than 15 parameters (for example, tooth profile, concentricity, wobble, pitch, shape and position) can be measured. The analysis of more than 200 measured values, the calculation of the quality classes and the graphical record are all fully automatic. In addition, the »hobCheck« offers a comfortable convenient wear and tear evaluation on the tooth head for regrinding.

