»sawCheck«

The Measuring and Inspection Machine for Precision Blades

Highlights

- **Efficient**
  Simple, quick and safe complete check of precision blades for manufacturers and grinding shops
- **Accurate**
  Precision camera swivel with incident light image processing for axial and radial inspection of blades, measuring sensor for runout compensation on the master blade (from D300 mm)
- **User-independent**
  Graphical software user interface with self-explanatory function keys for simple creation and processing of measuring procedures
- **Verifiable**
  Extensive recording of the measuring results

Software

The Modular Image Processing Software »pilot 3.0«

- Graphical user interface
- Photorealistic input dialog
- Dynamic cross-hairs
- Self-explanatory function keys
- Automatic cutting edge form detection
- Automatic zero-point monitoring
- Adjustable LED lighting for crystal clear display and inspection of cutting edges
- Tool and adapter management
- Tool identification
- Inspection record output
- Data transfer to machines and interfaces to third-party systems

and many more functions and options

▶ more

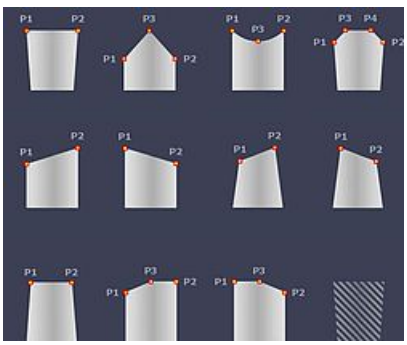
Technical data

»sawCheck«

Travel range Z axis	Travel range X axis
450 mm	200 mm
Measurable Ø in transmitted light	Measurable Ø in incident light
300-800 mm	+90°= 300-800 mm; 0° and -90°= 200-800 mm
Max. tool width in Z direction	Max. tool weight
30 mm	50 kg
Measuring sensor	
Axial runout measurement	

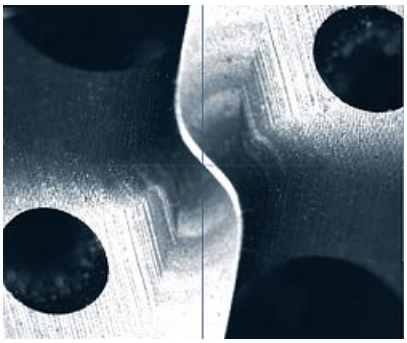
Note: Using adapters and attachment holders can reduce the indicated measuring range in some circumstances.

Measurement programs



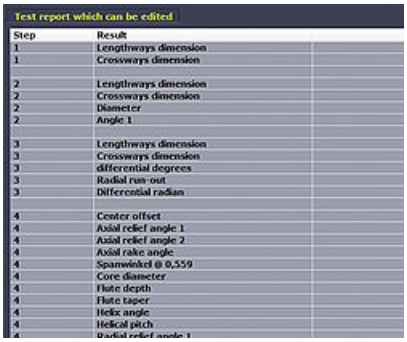
Diameter, Width

Measuring program for the measurement of parameters of different saw blade shapes like diameter, width, runout, concentricity, and more tooth shape specific parameters.



Automatic Tool Analysis

Software function for the automatic measurement and analysis of cutting tool geometries in incident and transmitted light, for the calculation of intersection points, distances, angles, and more.



»apus« Editable Measuring Protocol

Descriptions of documented measuring results can be edited with nominal, actual, tolerance, and other values.

Precision **Tooth for Tooth**

There are ever-increasing requirements in manufacturing in regards to accuracy and efficiency, especially when it comes to the regrinding of precision saws. With the ZOLLER »sawCheck«, you possess a user-independent, fully automatic and touchless solution for measuring sawblades, tooth by tooth.

»sawCheck« is efficient and precise, and includes the ability to record measurement results seamlessly. When inspecting teeth, parameters such as tooth shape, division, concentricity, radial runout of the cutting edge and more can be inspected touchless and quickly in transmitted light. Meanwhile, rake angle, clearance angle, tooth thickness, center offset and wear and tear, which can be measured in incident light, both radially and axially. As an option, the axial runout of the master blade can be determined with a measuring sensor. This information is then taken into account when measuring other parameters. ZOLLER provides the solution for a safe and complete check of precision saws — for both manufacturers and for grinding shops.