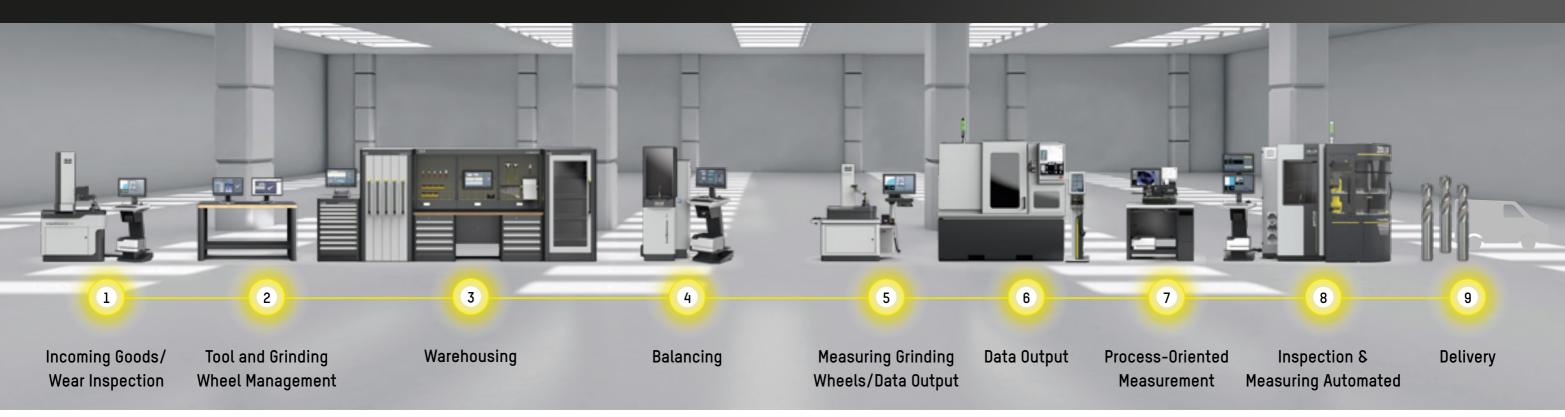
ZOLLER Product Portfolio Measuring Technology 4.0 for your Grinding Shop



ZOLLER Solutions Measuring Technology

18

ZOLLER Solutions for your Grinding Process



Content Overview

Discover our ZOLLER Solutions



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TMS Tool Management Solutions Software

In smart manufacturing, data plays an essential role. The central z.One database in conjunction with the browserbased webTMS software forms the innovative first step towards 2

an efficient tool management system for your tools and your grinding wheels.

ZOLLER offers you a comprehensive range of software options from a single source: with webTMS you give the starting signal for your digitization. With BRONZE, SILVER and GOLD, a further range of software packages are available for your grinding process with a modular design that can be expanded as you like.

solutions.zoller.info/en/toolmanagement





Exactly resharpened – ZOLLER **»edgeControl«**

1

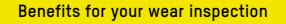
With the ZOLLER »edgeControl 600« & »edgeControl«, you can perform efficient resharpening with intuitive operation and precise measurement results. The incoming goods inspection provides not only actual geometry data but also measurement data on tool wear. ZOLLER's central z.One database manages all data for the tool management, the basis of the networked grinding shop of the future.



»edgeControl 600«



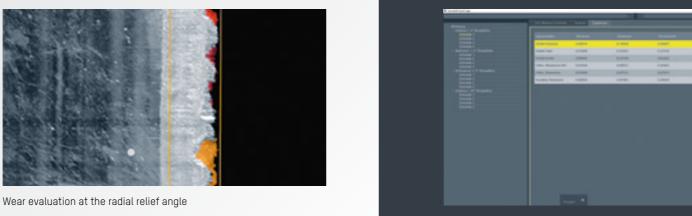
»edgeControl«



- Fully automatic measuring technology
- Fast detection of tool breakouts along the cutting edge
- Automatic analysis of the 3D model

Technical Data	»edgeControl 600«	<pre>»edgeControl«</pre>
Maximum tool length Z	600 mm	600 mm
Maximum tool diameter D	460 mm	100 mm
Maximum snap gauge diameter d	100 mm	100 mm
Weight	~ 430 kg	~ 1400 kg







High-precision spindle »ace« with power-operated tool clamping





Software for precise grinding

»pilot 4.0« detects wear on cutting edges. Your tools are ground to achieve optimal results and a longer life cycle. This increases quality and resource efficiency.

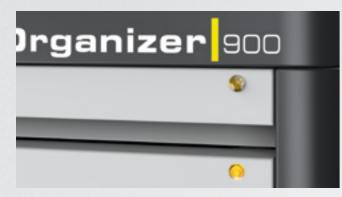
Intelligently Stored – ZOLLER »toolOrganizer«

3

The ZOLLER »toolOrganizer« is the intelligent and variable tool cabinet for cutting tools, grinding wheels and small parts. With this organizational wonder connected to TMS Tool Management Solutions, you will always know where items are located and the quantities you have available. You can reorder them on time and decide exactly how many items are able to be taken out.



»toolOrganizer 900«



Intelligent LEDs are used for visual orientation



Individual drawers, customized according to your needs

Benefits for your tool and grinding wheel management

- Maximum overview
- Full control and transparency
- Individually configurable

»toolOrganizer 600«	
600 mm	
875 x 800 x 790 mm	
max. 80 kg optional max. 160 kg	
75/100/125/150/ 175/200/250/300 mm	
4/8/12/16/24/48	



Find out more about the ZOLLER »toolOrganizer« on: solutions.zoller.info/en/smart-cabinets







»toolOrganizer 1225«

»toolOrganizer 900«

900 mm 1175 x 800 x 790 mm max. 80 kg optional max. 160 kg 75/100/125/150/ 175/200/250/300 mm 4/8/12/16/24/48

1225 mm 1500 x 800 x 790 mm max. 80 kg optional max. 160 kg 75/100/125/150/ 175/200/250/300 mm 4/8/12/16/24/48



Simple storage management with »quickPick«

Control the removal process easily with the smart software modules of the TMS Tool Management Solutions. The operators will guickly find their way around, and you benefit from well-maintained stock overviews, a neat and tidy storage. You maintain full circulation and storage transparency, and storing materials in the wrong place is a thing of the past as well as machine downtimes due to missing tools or grinding wheels.

Optimally Managed – ZOLLER **»keeper**«

3

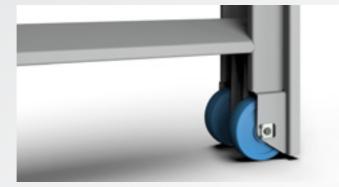
The ZOLLER »keeper« is the ideal solution to store and manage your complete tools, tool holders and grinding wheels used in your production process. Thanks to networking with TMS Tool Management Solutions, you can view the storage location of your tools and grinding wheels at all times.



»keeper«



Storage location management for unique identification of your tools



Sturdy heavy-duty rollers to move the drawers easily

Benefits for your storage management

- Convenient thanks to sturdy heavy-duty rollers
- Ergonomic handles
- Flexible tool frames

Technical Data	3 Pull-out drawers	5 Pull-out drawers
Cabinet size (H x W x D)	2000 x 1000 x 1050 mm	2000 x 1000 x 1050 mm
Drawer depth	810 mm	810 mm
Payload per vertical pull-out drawer	max. 1000 kg	max. 1000 kg
Tool frames per drawer	Standard 6	Standard 6
Design	Mechanical/electronic	Mechanical/electronic
Tool inserts SK, HSK, VDI, PSC	Size on request	Size on request
Tool inserts blank	B58/B75/B120	B58/B75/B120
Tool inserts adapter tool post	D 78 VSH size 1	D 78 VSH size 1
Tool inserts wooden	Blank/D 42	Blank/D 42



Find out more about the ZOLLER »keeper« on: solutions.zoller.info/en/smart-cabinets







Variety of tool inserts

The tool inserts are configured for space-saving storage of all common systems. For permanent marking of the storage locations of your tools and grinding wheels, the ZOLLER marking set offers the optimal solution. The marking is quickly visible with storage location in text form and as a DataMatrix code.

Precisely Balanced – ZOLLER »toolBalancer«

4

With the ZOLLER »toolBalancer«, you increase your process reliability and the quality of your components, reduce machine maintenance costs and prevent machine failures. With optimally and highly-precisely balanced tools, you achieve longer tool life, a longer spindle running time and a better surface quality of your components. With the »toolBalancer«, you get your tools into the perfect balance of sustainability, efficiency and progress.





»toolBalancer 550«

»toolBalancer 750«



Device interior with interior lighting and practical storage areas

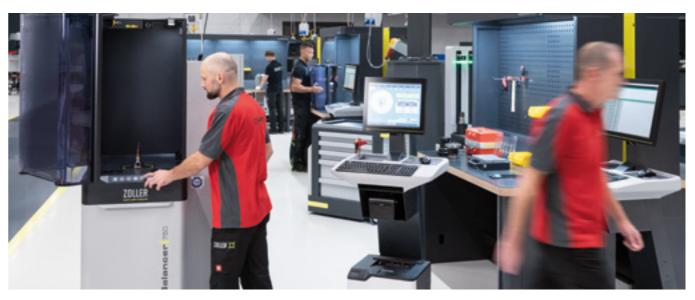


The ergonomic membrane keypad for safe measuring sequences

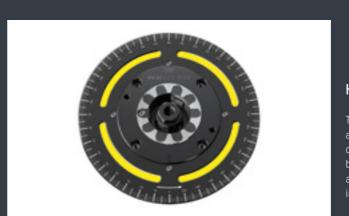
Benefits for your balancing processes

- 100% made by ZOLLER
- 500 kg massive basis
- Best balancing results: < 0.4 gmm

Technical Data	»toolBalancer 550«	»toolBalancer 750«
Dimensions with integrated control unit (monitor holder) (H $ imes$ W $ imes$ D)	1044 x 1725 x 807 mm	1044 x 1960 x 807 mm
Domensions with separate »cockpit« control unit (H x W x D)	1740 x 1725 x 1225 mm	1740 x 1960 x 1225 mm
Weight of standard version	740/730 kg	755/745 kg
Maximum tool diameter/maximum tool length	480 mm/550 mm	480 mm/750 mm
Maximum tool weight/maximum spindle speed	30 kg/1200 R/min	30 kg/1200 R/min
Measuring accuracy	< 0.4 gmm	< 0.4 gmm



Find out more about the ZOLLER »toolBalancer« on: solutions.zoller.info/en/toolbalancer







High-precision spindle

The selection of high-precision ZOLLER balancing adapters with a unique design facilitate power-activated and safe clamping of SK, HSK, polygonal shank coupling adapters and more, with even better repeat precision than ever before. In addition, accidents and damage caused by balancing adapters that are not screwed into the spindle are prevented.

Compactly Inspected – ZOLLER **»smileCheck«**

5

With the ZOLLER »smileCheck«, you ensure reliable processes and more speed in your production. The »smileCheck« is impressive not only because of its convenient operating concept, but because of its compact design. Tool parameters, geometry data and cutting contours can be recorded both radially and axially. The »smileCheck« also enables you to prepare your grinding wheel packs quickly and precisely.



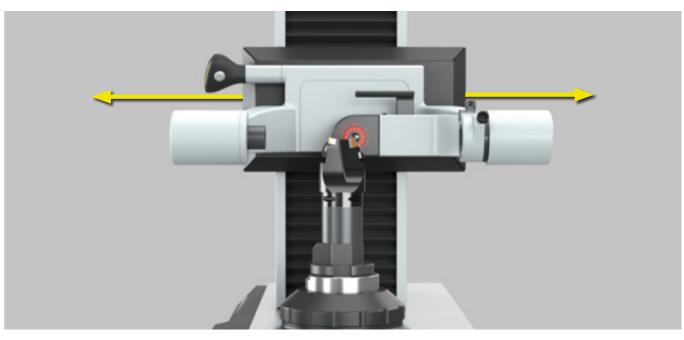
High-precision spindle
SK 50
High-precision spindle
»pcs«

Image: State of the spindle spindle

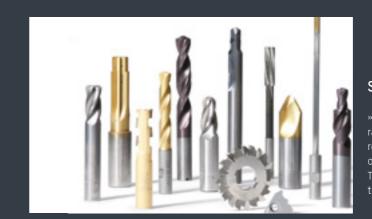
Benefits for your tool inspection

- Functional design
- Universal for all tool holders
- Maximum operating comfort

Technical Data	»smileCheck«
Maximum tool length Z	420/600/800 mm
Maximum tool diameter D	420/460/620 mm
Maximum snap gauge diameter d	70 mm
Travel range Y-axis	± 50 mm
Number of axes	3–4



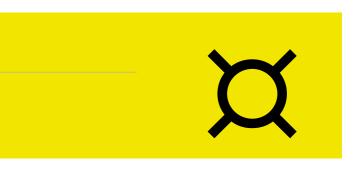
Find out more about the ZOLLER »smileCheck« on: solutions.zoller.info/en/smartcheck



Vacuum tool clamping

Power-operated tool clamping

Manual fine adjustment as an alternative to CNC control





Software packages »inspection«

»Basic«, »Advanced«, »Premium« flexibly extend the range of functions of the basic version according to the respective measurement requirements. The data creation of the measuring programs is unsurpassed in its simplicity. The photo-realistic input dialog »fored« guides you safely through the parameter input.

Process-Oriented -ZOLLER »smartCheck«

5

With the ZOLLER »smartCheck«, you have everything you need for a comprehensive tool inspection: State-of-the-art technology paired with outstanding ease of use ensure efficient process sequences in your production. The wide variance of measuring ranges and the variable equipment make the »smartCheck« the perfect solution for your demanding range of tools. You can rely on precise measurement data that guarantees the quality of your products.





»smartCheck 450«

»smartCheck 600«



High-precision spindle »ace« for µm-precise toolholding

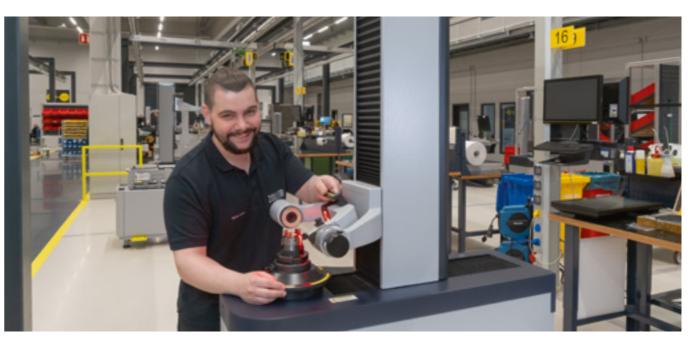


Simple operation of the dust-resistant membrane keypad

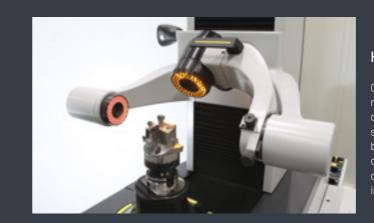
Benefits for your tool inspection

- Production at premium level
- Universal quality control
- Certified safety

Technical Data	»smartCheck 450«	»smartCheck 600«	»smartCheck 800«
Maximum tool length Z	450/620/820 mm	600/800/1000/1200 mm	600/800/1000/1200 mm
Maximum tool diameter D	420/460/620 mm	560/600/660/800 mm	860/1000 mm
Maximum snap gauge diameter d	70 mm	65/85 mm	85 mm
Travel range Y-axis	± 50 mm	± 100 mm	-
Number of axes	3-4	3-4	3-4



Find out more about the ZOLLER »smartCheck« on: solutions.zoller.info/en/smartcheck







High-Precision Optics

Cutting edge radii, angles, lengths, diameters, etc. can be measured automatically and with $\mu\text{m-accuracy}$ on the outer contour of the tools using transmitted light. Stored measurement sequences are carried out fully automatically at the touch of a button (CNC version). In incident light, manual measurements can be carried out in the chip space, on the circumference and on the face. The cutting edge detection supports operatorindependent measurements.

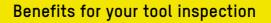
Precisely Inspected – ZOLLER »genius«

5

With the ZOLLER »genius«, you are always guaranteed µm-accurate measurement results even in the production environment. Its metrological precision is based on exact mechanics and highly accurate optics. The »pilot 4.0« operating software offers every user a high level of convenience with customized options. The ZOLLER »genius« is already used by more than 1800 enthusiastic customers worldwide - indispensable measuring technology that impresses.



»genius«



- Customer-oriented overall concept
- Comprehensive range of services
- Storage of measurement sequences in the z.One database

Technical Data	»genius«
Maximum tool length Z	600 mm
Maximum tool diameter D	400/260 mm
Maximum snap gauge diameter d	100 mm
Number of axes	5-6
Weight	~ 820 kg



Find out more about the ZOLLER »genius« on: solutions.zoller.info/en/genius





High-precision spindle »ace« with quick-change system



The »elephant 2.0« software is based on innovative AI technology





The »genius« universal measuring machine

Every cutting tool is a specialist. An expert should measure it precisely and verify its quality. With the ZOLLER »genius«, you can measure over 100 parameters of your precision tools in 2D/3D without contact, fully automatically and impressively reliably. Every measured value provides you with the basis for improving the quality of your products.

Universally Measured – ZOLLER **»threadCheck | cc«**

5

With the ZOLLER »threadCheck | cc«, you are offered a universal genius: Intelligent multi-sensor technology and the functional full enclosure, in combination with the universal toolholding system including tailstock, make the ZOLLER »threadCheck | cc« unique worldwide. Equipped with a CNC-controlled swiveling optics carrier and transmitted light and incident light image processing, you can precisely and automatically measure almost anything on cutting tools of any kind as well as on threading and gear cutting tools.

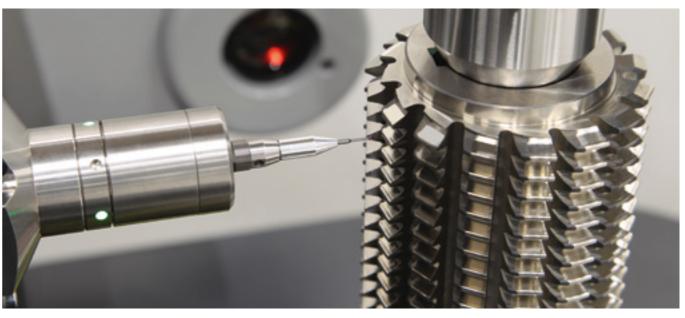


»threadCheck | cc«

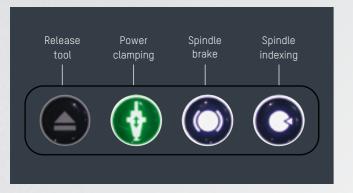


- Universal multi-sensor and clamping technology
- Comprehensive performance range
- Innovative high-end design

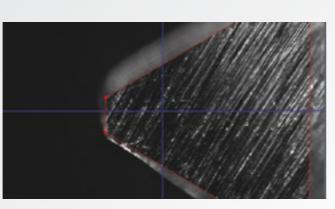
Technical Data	»threadCheck cc«	
Maximum tool length Z	600 mm	
Maximum tool diameter D	420 mm	
Maximum snap gauge diameter d	100 mm	
Travel range Y-axis	± 50 mm	
Number of axes	6-7	
Weight	~ 1260 kg	



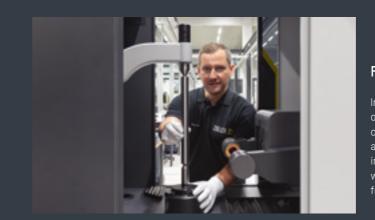
Find out more about the ZOLLER »threadCheck | cc« on: solutions.zoller.info/en/threadcheckcc



Simple operation of the dust-resistant membrane keypad



3D contour measurement in the chip space







Functionality at the highest level

In every new development, factors such as ergonomics, operation and comfort at the workplace play a decisive and competitive role. The »threadCheck | cc« ensures ideal accessibility and allows a highly precise measuring process. Other highlights include the flexibility of the »cockpit« and accessory shelves as well as the innovative multi-sensor system – all aspects to ensure functionality and productivity at the highest level.

Automatically Inspected – ZOLLER **»titan**«

5

With the ZOLLER »titan«, simple, fast and profitable production processes are possible. Even highly complex measurements can be carried out fully automatically, independently of the operator and with an inspection report at the touch of a button. From random sample measurements to complete inspections, the »titan« measures fully automatically and with µm-accuracy. The centered multi-LED ring lights ensure ideal illumination on every tool for inspections on the face, on the circumference and in the chip space. In addition, the »zep« measuring sensor measures the cutting edge preparation without contact.



»titan«

High-precision spindle »tcs«



Power-operated tool clamping



Automatic hydraulic clamping

High-precision spindle

»ahd«

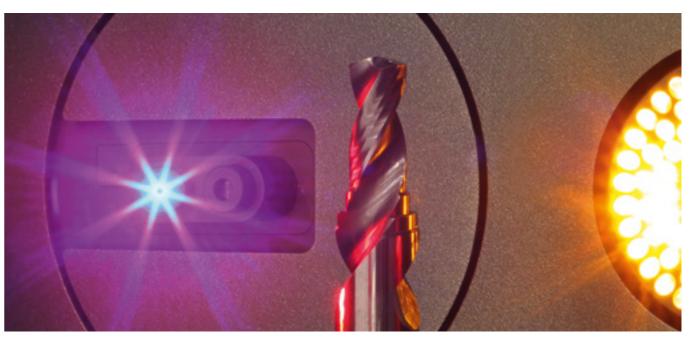


Centered multi-LED ring lights ensure ideal illumination

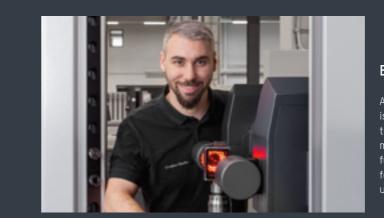
Benefits for your tool inspection

- State-of-the-art technology
- High-precise high-end measuring machine
- Maximum operating comfort

Technical Data	»titan«
Maximum tool length Z	600 mm
Maximum tool diameter D	230/100 mm
Maximum snap gauge diameter d	100/75 mm
Number of axes	5–7
Weight	~ 1400 kg



Find out more about the ZOLLER »titan« on: solutions.zoller.info/en/titan







Every »titan« is a promise

A tool measuring machine only becomes outstanding when its precision is available to everyone. The ZOLLER »titan« achieves the best results thanks to high-end components, a unique axis concept and decoupled measuring technology, as well as powerful software, extensive automatic functions and clever ergonomic elements. The »cockpit« control unit, for example, can be individually adjusted to the operator's needs for user-friendly and comfortable working.

Tooth By Tooth Inspected – ZOLLER **»hobCheck«**

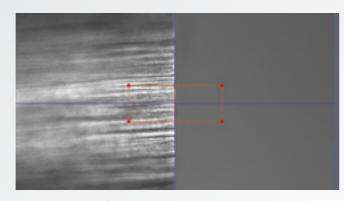
5

With the ZOLLER »hobCheck«, the quantum leap for your production, you are perfectly equipped for inspection tasks through to fully automatic complete inspection of all types of gear cutting tools. Benefit from higher quality of tools, shorter set-up times on machines, less stock removal during resharpening and complete documentation.





High-precision spindle »ace« with power-operated tool clamping



Incident light focus/2D incident light measurement on circumference

Benefits for your tool inspection

- Fully automatic measuring technology
- Comprehensive complete measurement
- Production at premium level

Maximum tool length Z	
Maximum tool diameter D	
Maximum snap gauge diameter d	
Travel range Y-axis	



Find out more about the ZOLLER »hobCheck« on: solutions.zoller.info/en/hobcheck





»hobCheck«
600/800/1000 mm
420 mm
100 mm
± 40 mm
~ 542/557/572 kg



High-precision sensors for gear cutting tools

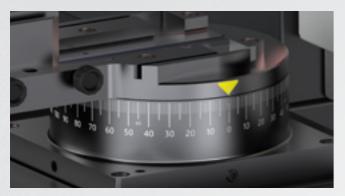
With the ZOLLER »hobCheck«, you can complete tactile measuring without contact in transmitted light and incident light. Equipped with a CNC-controlled swiveling optics carrier, electronic measuring probe and transmitted light and incident light image processing, parameters such as tooth profile, concentricity/wobble, pitch and many more can be measured automatically on hob cutters in accordance with DIN 3968. The ZOLLER »pilot 4.0« software takes care of all calculations, positioning processes and the assignment of sensors to the respective measuring task.

Without Contact Inspected – ZOLLER **»pomBasicCompact**«

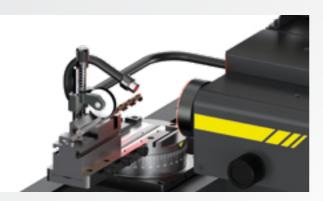
With the ZOLLER »pomBasicCompact«, you have a specialist for inspecting and measuring machining shank tools at your side. The measuring technology is based on contact-free measurements of the tools. The »pomBasicCompact« consists of a digital zoom lens. All axes can be adjusted using manual fine settings.



»pomBasicCompact«



Swivel table ensures safety for exact measurement results



Additional lighting with LED spot

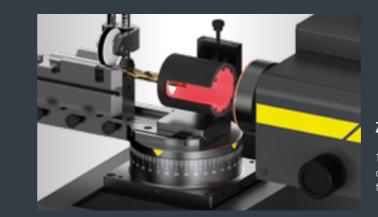
Benefits for your tool inspection

- Highly precise inspection and measuring technology
- Compact overall concept
- Maximum operating comfort

Travel range X-axis	
Travel range Y-axis	
Travel range Z-axis (camera)	
Clampable and measurable diamete	76
lens	



Find out more about the ZOLLER »pomBasicCompact« on: solutions.zoller.info/en/pombasic





»pomBasicCompact«

45 mm

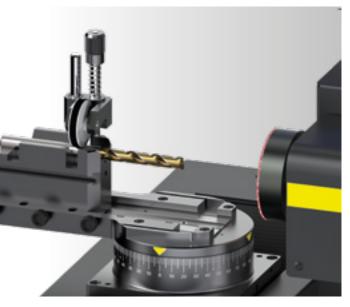
170 mm

45 mm

3 mm to 40 mm

Macro lens with digital zoom, high-definition, monochrome, field of view 18 x 12 mm, resolution 20 Mpx

90 mm





ZOLLER »pomLightTube« illumination unit

The additional illumination »pomLightTube« ensures consistent, optimal and high-contrast lighting of the tools for radial and axial incident light measurements.

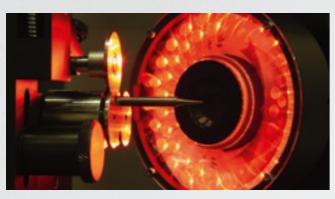
Inspected with **»pomBasic«** and **»pomBasicMicro«**

7

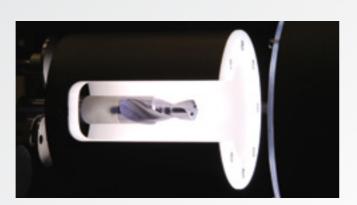
With the ZOLLER »pomBasic« & »pomBasicMicro«, you save yourself unnecessary trips to the measuring room and benefit from efficient processes and precise results in record time. The »pomBasic« and »pomBasicMicro« inspection units impress with reliable measuring. Insert the tool, align it, check it and you're done. This is how you can inspect almost all shank tools easily and reliably. Automatic edge detection guarantees fast measurement with high accuracy.



»pomBasic«



The big stage for micro tools

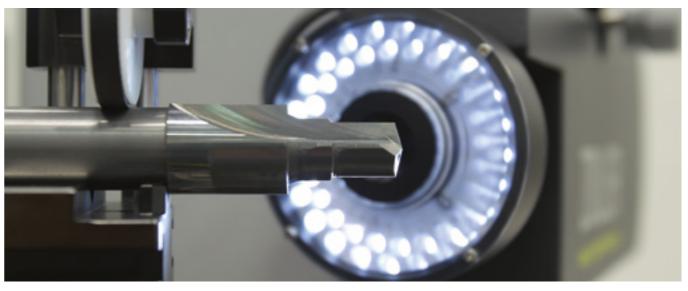


Optimum lighting of complex geometries with »pomLightTube«

Benefits for your tool inspection

- Compact inspection and measuring technology
- Convenient operator guidance
- Innovative axis principle

Technical Data	<pre>»pomBasic«</pre>	»pomBasicMicro«
Travel range X-axis	180 mm	180 mm
Travel range Y-axis	55 mm	55 mm
Travel range Z-axis (camera)	± 50 mm	± 50 mm
Clampable shaft diameter	0.5 mm to 50 mm (depending on tool holder)	0.5 mm to 50 mm (depending on tool holder)
Zoom lens	Video microscope system color with 6.5x optical zoom	Video microscope system monochrome with 12x optical zoom
Working distance	90 mm	50 mm



Find out more about the ZOLLER »pomBasic« & pomBasicMicro« on: solutions.zoller.info/en/pombasic







Automatic inspection with the macro function

Do you have repetitive measuring tasks and want to carry them out effectively? ZOLLER has the perfect solution. Thanks to the macro function, repeat measurements can be saved easily and reliably. A reference image serves as a template. As soon as the tool is positioned congruently with the template, a single press of a button is all it takes to start the automatic measuring process, regardless of the operator. We call this intelligent ZOLLER comfort.

µm-Precisely Inspected – ZOLLER **»mµFocus«**

7

With the ZOLLER »mµFocus«, you use non-contact measurement procedures to determine the surface roughness and cutting edge preparation of your tool, down to the µm. Use the ZOLLER »mµFocus« to create fully optimized tools: You will produce the perfect cutting edge – one that ensures a long tool life, minimal wear, optimal chip formation, and precision workpiece processing, thereby significantly lowering costs for production.

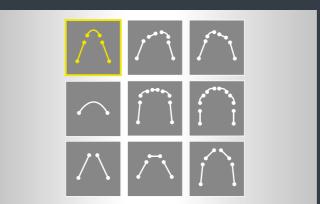
Benefits for your tool inspection

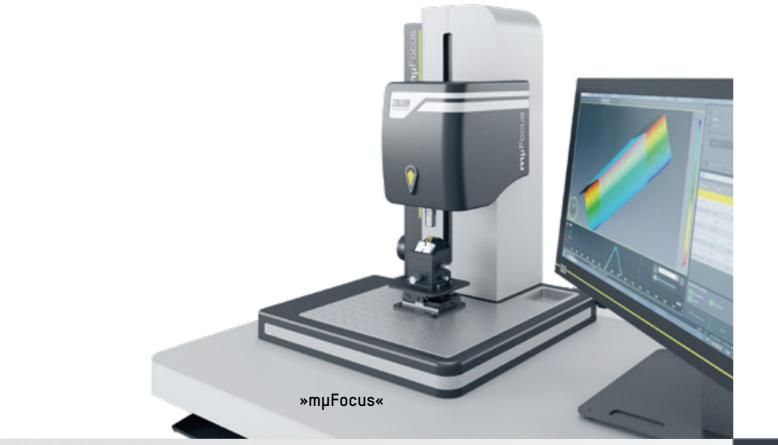
- Highest measuring accuracy of up to 0.1 µm
- The latest measurement technology software
- Ergonomic operation that meets workshop needs

Technical Data	»mµFocus« with »zep« sensor	»mµFocus« with »zep-R« sensor
Z-axis	300 mm	300 mm
Working distance	30 mm	20 mm
Measuring principle	Stripe projection Confocal microscope	
Smallest measurable radius	3 µm 3 µm	
Numeric aperture	-	0.42



Find out more about the ZOLLER »mµFocus« on: solutions.zoller.info/en/inspection-measuring/mufocus



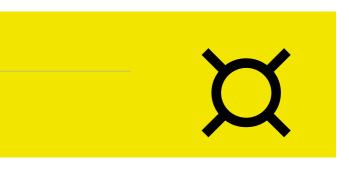






Securely clamp your tools and bring them into position

For the cutting edge preparation To analyze surface roughness





Ready for different geometry types

You always have a choice, including different analysis options. »mµFocus« can handle almost any kind of analysis, and shows a graphic display of shapes. Just click, start the analysis, and display your results. With »mµFocus«, you gain an easy advantage in developing tool innovations. Large, clear symbols make it easy to make your selection. The cutting edge form Vec-Arc-Vec (line, arc, line) was identified in the example.

Automatically Measured – ZOLLER »roboSet 2«

8

With the ZOLLER »roboSet 2«, you automate your »genius«. After loading the pallets with tools, the automatic intermediate sleeve change starts. In the »roboClean« upstream tool cleaning, the tools are cleaned in an ultrasonic bath before they are clamped and measured in the »genius«. All measurements are fully documented. After the measurement, the »roboMark« laser marks the shank of the tool within milliseconds with values and other data individually determined during the measuring process.



»roboSet 2«

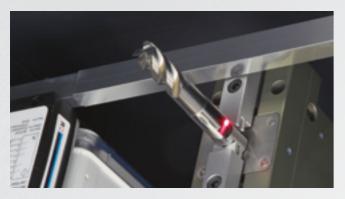


- Automatic measurement and inspection, 24/7
- High loading capacity
- Flexible pallet management system

Technical Data	»roboSet 2«
Range	920 mm
Positioning accuracy	±0.03 mm
Maximum load capacity	7 kg without gripper
Working area	1050 x 350 mm
Number of pallets	8



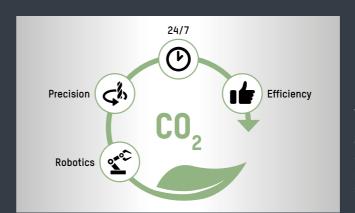
Find out more about the ZOLLER »roboSet 2« on: solutions.zoller.info/en/automation/roboset-2

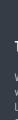


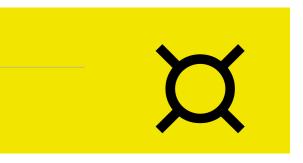
Automatic and contactless Weldon detection



Cleaning of the tool cutting edges in the ultrasonic bath









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