Process-Oriented Compact Solutions for Tool Inspection



# pomBasic



# We Stand for Smart Progress

ECONOMICS

Do you want to speed up your work processes? Then take the shortcut for tool measurement and inspection. The ZOLLER »pomBasic« and »pomBasicMicro« inspection machines are the ideal solution for well-thought-out, economically structured preparation and production of precision tools.

Save yourself unnecessary trips to the measuring room and benefit from efficient processes and precise results in record time. With their compact dimensions, the ZOLLER »pomBasic« and »pomBasicMicro« inspection machines can be positioned anywhere in your production directly next to the CNC grinding machine, in the goods receipt area or at the tool issue.



# Tool Inspection – Well Thought Through

The ZOLLER »pomBasic« and »pomBasicMicro« 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.

Wizard-guided measuring sequences, seamless inspection reports at the touch of a button and the tool-specific management of all parameters in the z.One central ZOLLER tool database ensure efficient production processes and traceable quality at all times.







Quality Management/Environmental Management according to ISO 9001, VDA 6.4 and ISO 14001

»pomBasic«

# We Stand for Unmatched Precision

TECHNOLOGY

A ZOLLER »pomBasic« is simple, fast and safe to handle three unbeatable characteristics that could not be more true. But its design also provides the basis for µm-precise measurements. The arrangement of the linear measuring axes and the integrated cable ducts with the resulting ergonomics and durability are unique on the market. The ZOLLER »pomBasic« guarantees quality and efficiency, making its use and precise measurements directly in your production indispensable.

Each »pomBasic« is a promise to our customers. Thanks to clever and process-oriented measuring, or POM for short, the »pomBasic« achieves proven precision. The manually operated inspection and measuring technology has high-quality components and an industry-compatible device design - ZOLLER compactness that impresses.

For us, doing the ZOLLER assembly, attention to detail and customer benefit go hand in hand: mechanics, stability and operation are always the focus of our production processes.

**TOBIAS WONNER, TIM BIRKENFELDER** Part of the ZOLLER assembly team, ZOLLER assembly preparation

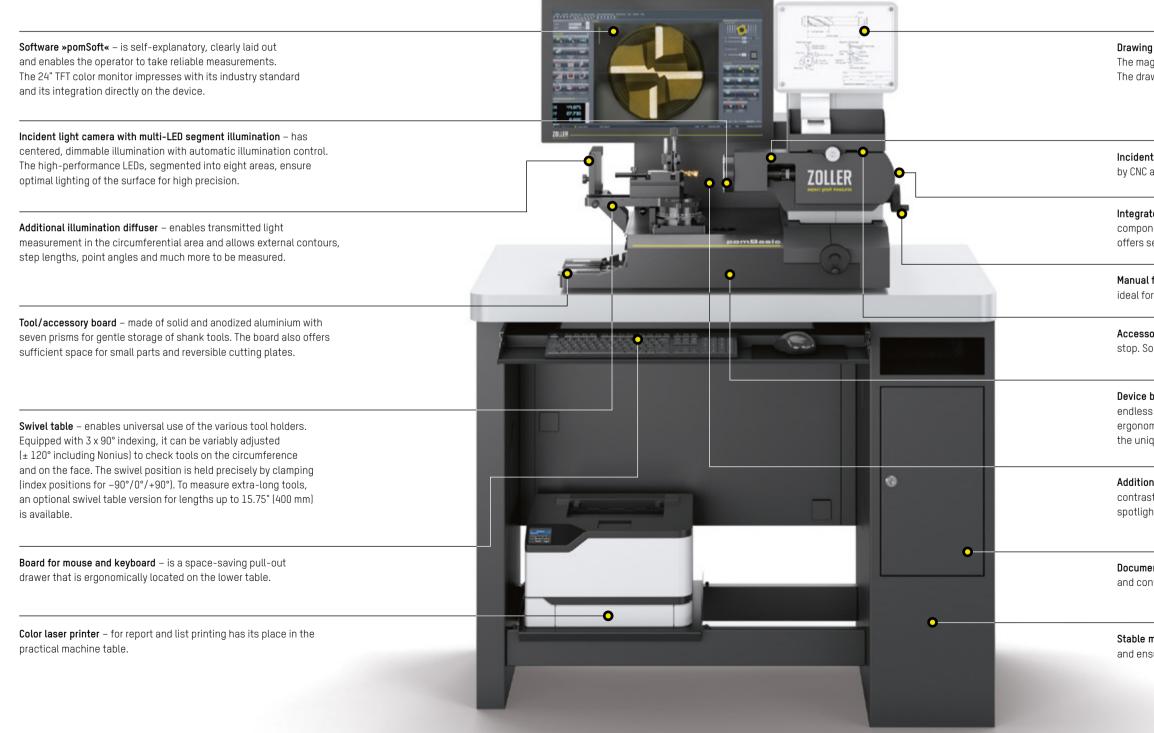


# Compactness in Detail

#### »pomBasic« TÜV and UL/CSA Approved

Every »pomBasic« inspection device is certified according to international standard IEC/EN 61010-1 and cNRTLus.

Proven and certified safety.





**Drawing holder** - is ideal for attaching drawings in direct proximity of the measurement. The magnetic spherical joint allows flexible and optimal alignment for the operator. The drawings can be easily fixed and quickly changed using magnets.

Incident light camera with zoom optics - which can be adjusted manually or optionally by CNC and is available in monochrome or color, depending on the version.

Integrated electronics unit – with professional electrical installation of high-quality components for maximum reliability and a long service life. The electronics unit also offers service-friendly maintenance access.

Manual fine adjustment of the X and Y axes - is sensitive and backlash-free, making it ideal for process-oriented tool measurement.

Accessories board - for holding accessories for the swivel table, such as a reflector or stop. So you always have your accessories on hand.

**Device base with linear axes** – for safe, fast and convenient measurement. The manual endless fine adjustment of the integrated X and Y axes with Uhing drives and the ergonomic arrangement of the fine adjustment handwheels via reversing gears ensure the unique operating comfort typical for ZOLLER.

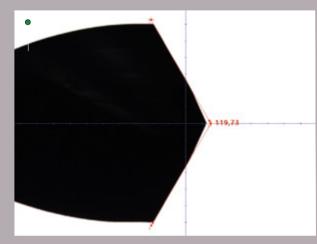
Additional illumination »pomLightTube« - the LED illumination tunnel ensures highcontrast lighting of the tool cutting edge in incident light. In addition, an optional 2-fold spotlight can be attached to perfectly illuminate concealed tool geometries.

Document and accessory board - in the machine table provides sufficient storage space and convenient access to your documents and accessories.

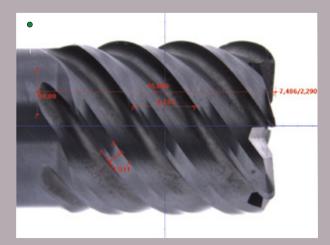
Stable machine table - can be individually selected as a seated or standing workstation and ensures the stable and secure positioning of your »pomBasic«.

# Universal Optics for Inspection and Measuring

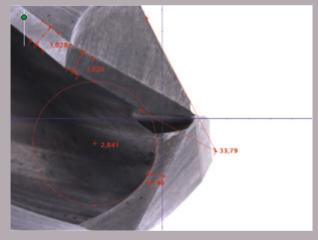
Whenever universal and targeted inspection of cutting tools is required, the ZOLLER »pomBasic« gives you precise results quickly and easily. Angles, radii, distances, cutting edge quality, grinding pattern - the »pomBasic« measures all relevant parameters in incident light of every type of cutting tool, including as drills, hob cutters, saw blades, forming tools and cutting inserts. The additional use of a diffuser (LED flat light) flexibly extends the range of applications for transmitted light measurements. External contours can also be quickly measured and documented.



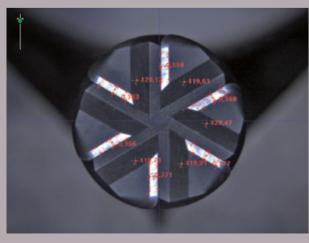
Transmitted light measurement on the circumference



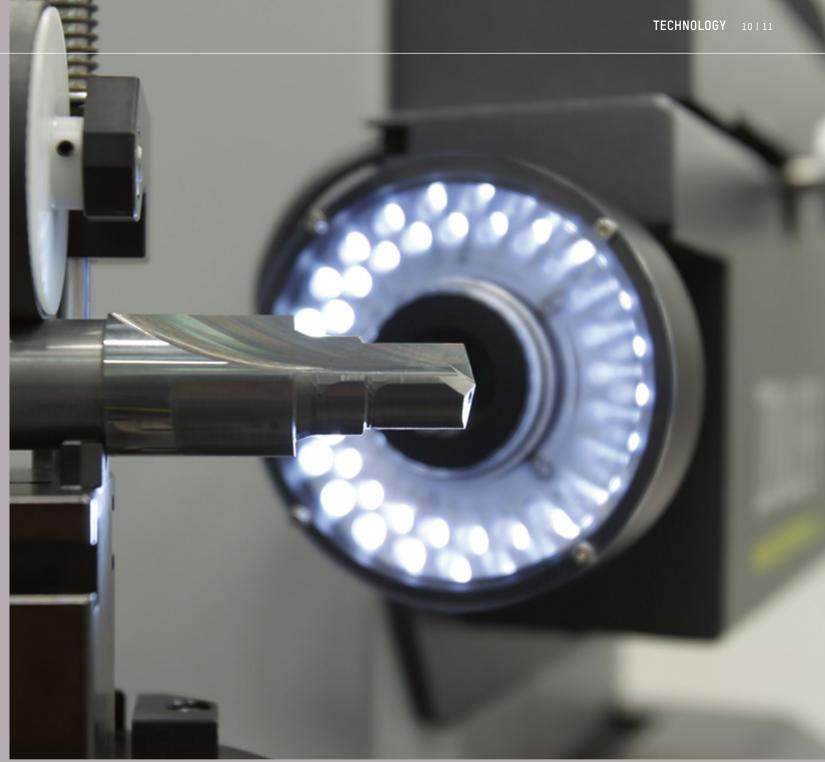
Incident light measurement on the circumference



Contour measurement in the »pomLightTube«



Incident light measurement on the face



Sensors configuration
Optics »pomBasic«
»pomColorCam«, BF approx. 0.118" x 0.094" (3.0 x 2.4 mm²) to appro
»pomColorCam«-MOT, BF approx. 0.118" x 0.094" (3.0 x 2.4 mm²) to
Optics »pomBasicMicro«
»pomMicroCam«, BF approx. 0.024" x 0.019" (0.6 x 0.5 mm²) to appr

x. 0.819" x 0.654" (20.8 x 16.6 mm²)	•
pprox. 0.819" x 0.654" (20.8 x 16.6 mm²)	٥
x. 0.311 x 0.248" (7.9 x 6.3 mm²)	•

# Tool Inspection in the Best Light

Optimum lighting of the complex geometries on precision tools is a precondition for perfect inspection and measurement. With the ZOLLER illumination »pomLightTube«, which is unique in its design, you can achieve phenomenally homogeneous image quality, even with geometries which are generally difficult to illuminate or with reflective surfaces.

### Advantages of the »pomLightTube«

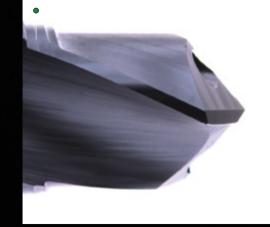
- High-contrast lighting of all types of surfaces

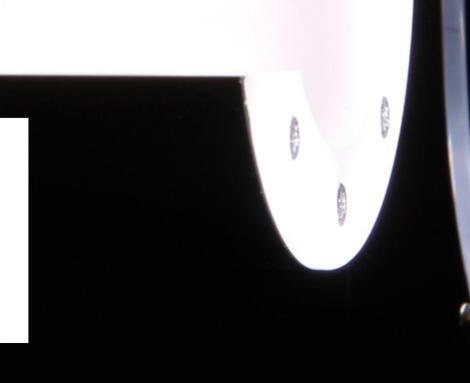
- Axial and radial incident light measurement without interruption

- No interference from partial spots

Frontal view of a step drill in the »pomLightTube«

Circumferential view of a step drill in the »pomLightTube«

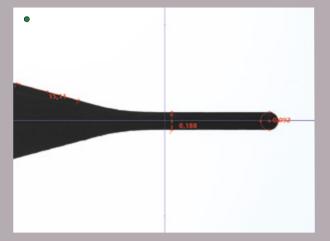




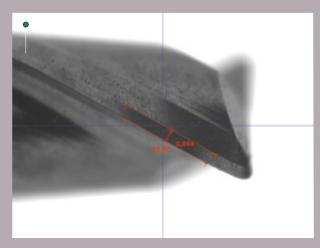


# Highest Perfection with "Micro" Optics

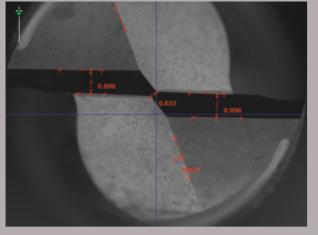
The ZOLLER »pomBasicMicro« is the compact and process-oriented inspection solution for inspecting and measuring micro tools. A special high-resolution micro camera enables the exact inspection of tools of the smallest size. The lens zoom with its magnification capacity of over 400x captures even micro tools in great detail. The »pomBasicMicro«, based on the »pomBasic«, offers the same advantages and can be used universally in the measuring room, in the goods receipt area or directly on the shop floor.



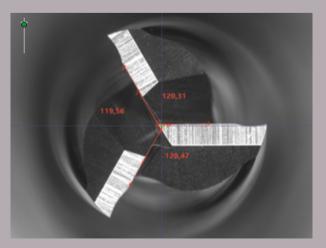
Transmitted light measurement on the circumference



Incident light measurement on the circumference



Contour measurement on the face in the »pomLightTube«



Incident light measurement on the face



# Micro Tools in the Focus of the "Micro"

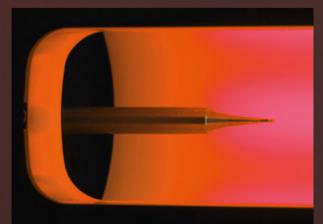
With the ZOLLER »pomBasicMicro«, you can inspect even the smallest detail with the utmost precision. We call this ZOLLER high-performance for consistent quality of your micro tools.

### Advantages of ZOLLER inspection with the »pomBasicMicro«

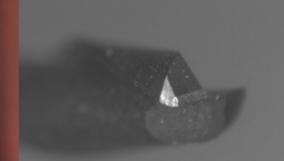
– Inspecting the smallest tools with µm-precision

- Future-oriented measuring technology for your production
- Contactless measurements within seconds

The big stage for micro tools

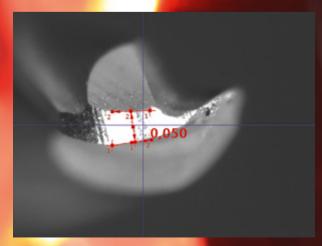


»pomLightTube« for high-precise measurement results

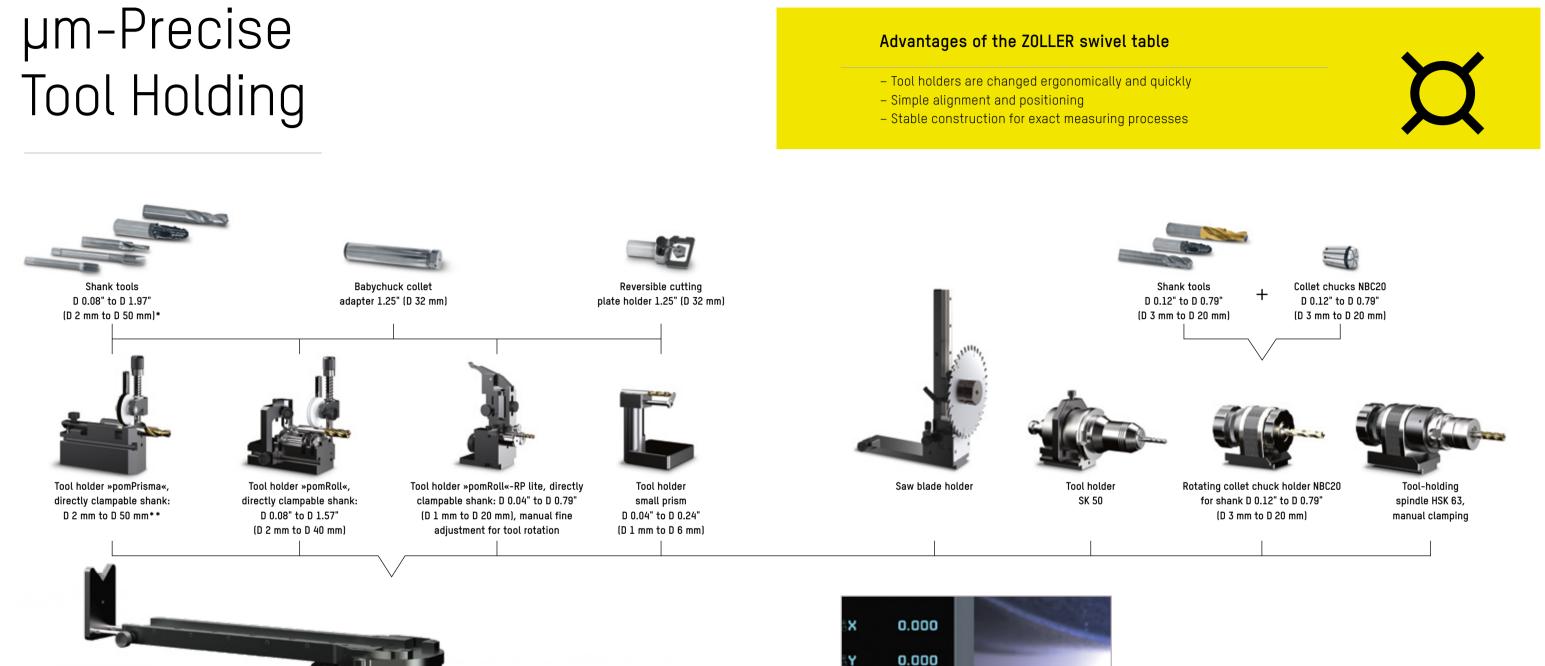


Wear testing/inspection of surface coatings





**Contour measurement/inspection** full radius cutter 0.008" (0,2 mm)



#### Swivel table - with Nonius, clamping and indexing

Enables the universal use of the various »pomBasic« and »pomBasicMicro« tool holders. Equipped with 3 x 90° indexing, it can be variably adjusted (± 120° including Nonius) to check the tools on the circumference and on the face. The swivel position is held precisely by clamping (index positions for -90°/0°/+90°). To measure extra-long tools, an optional swivel table version for lengths up to 15.75" (400 mm) is available.

Rotation sensor (ROD) - for angle display swivel table in »pilot 4.0«

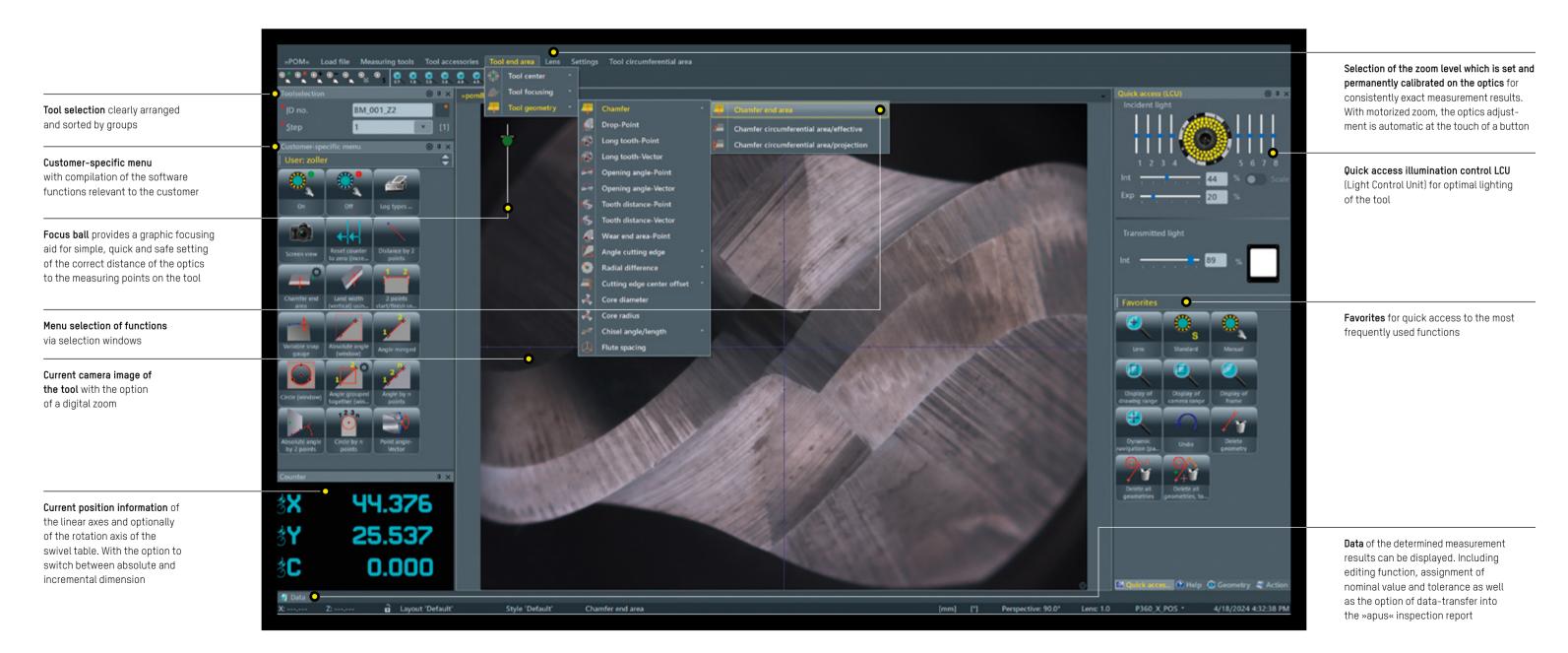
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Can be optionally integrated into the swivel table. The angle is displayed digitally in counter mode (C-axis). The digital display ensures, for example, fast positioning of the swivel table to the nominal angle in the »pomSoft« image processing technology.

# Software »pomSoft« – Intelligent Inspection

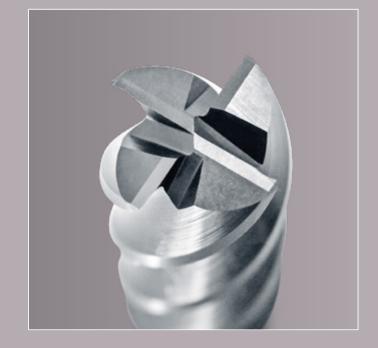
The special »pomSoft« ZOLLER software for process-oriented measurement is based on the globally proven ZOLLER »pilot 4.0« image processing technology and is equipped with numerous evaluation algorithms for grinding and sharpening shops, as well as tool manufacturers. In addition, all functions can be individually created and saved for the respective inspection task and tool variant in the customer-specific menu. This means that it can be used clearly and user-independently without the need for extensive training.



# Check and Document Parameters Precisely









#### Parameters at a glance:

- Outer contour
- Axial/center angle
- Diameter
- Corner radius
- Chamfer width
- Chamfer width face
- Chamfer width circumference
- Chamfer length
- Chamfer angle
- Radial relief angle face
- Radial relief angle circumference
- Hollow angle
- Core diameter
- Cone angle
- Long tooth
- Center offset
- Flute depth
- Run-out
- Chisel edge length
- Chisel edge angle
- Radius
- Concentricity
- Cutting edge length
- K-Land chamfer width
- Helix angle
- Point angle
- Step diameter
- Step length
- Taper • Wear chest
- Wear front
- Wear circumference
- Tool length



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**Inspection report** – with large illustration of the cutting edge as an additional documentation option

# 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.

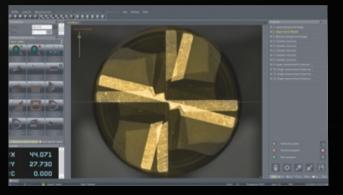
A single click on your saved macro program is all it takes and the measuring process runs automatically: simple, fast and user-friendly.



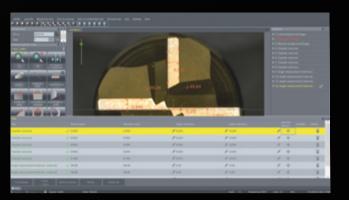
**Program start** with display of the reference image



Automatic measurement of the defined parameters



Positioning the tool to be measured in relation to the reference image

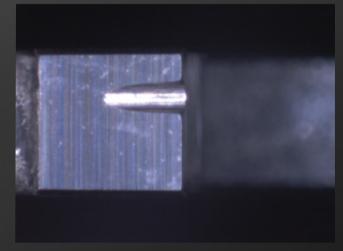


**Overview** of measurement results and tolerances

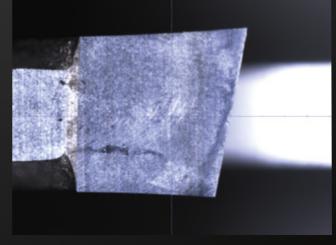


# Measuring Saw Blades Tooth by Tooth

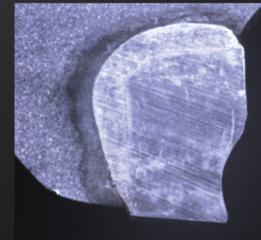
The saw blade holder extends the range of applications of the »pomBasic«. It can be used to clamp saw blades with a diameter of 150 mm to 600 mm with corresponding reducer rings. With the »pomSoft« image processing technology, a variety of parameters and geometries on the teeth of the saw blades can be determined axially and radially in incident light.



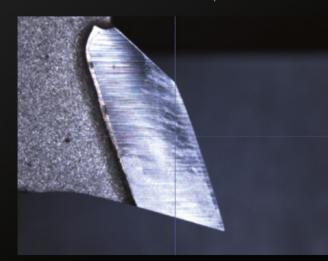
Radial view of saw blade tooth with flute



Radial view of saw blade tooth to control cutting edge and soldering



Axial view of saw blade tooth with flute step



Axial view of saw blade tooth to control cutting edge and soldering



### Options/Accessories

#### Machine table standing workstation

Stable and safe positioning of the »pomBasic« and »pomBasicMicro« inspection machines as a standing workstation. Includes pull-out board for mouse and keyboard.



### Machine table seated workstation

Stable and secure positioning of the »pomBasic« and »pomBasicMicro« inspection machines as a seated workstation for optimum comfort, even on time-consuming inspection tasks. Includes pull-out board for mouse and keyboard.



### Diffuser (white/red)

The diffuser (LED flat light) enables transmitted light measurement in the circumferential area. For this purpose, the diffuser is positioned opposite the video microscope system. This means that outer contours, step lengths, point angles and much more can be measured.

Diffuser white for »pomBasic« Diffuser red for »pomBasicMicro«

### »pomLightTube« (white/red)

Additional illumination adjustable in height for optimum, high-contrast lighting of even the smallest areas along the tool cutting edge – for radial and axial incident light measurements.

»pomLightTube« white for »pomBasic«
»pomLightTube« red for »pomBasicMicro«



### 2-fold LED spot illumination (white/red)

The dimmable additional illumination consisting of two LED spots can be flexibly positioned in relation to the tool to provide optimum lighting even for undercut tool geometries.

LED spots white for »pomBasic« LED spots red for »pomBasicMicro«

### Drawing holder

Ideal for attaching drawings in direct proximity of the measurement. The magnetic spherical joint allows flexible and optimum alignment for the operator. The drawings can be easily fixed and quickly changed using magnets.

#### Tool/accessory board

The tray on the left of the inspection device allows tools with a maximum shaft diameter of D 50 mm to be stored carefully. The board also offers sufficient space for small parts and reversible cutting plates.







### Options/Accessories

### Extended swivel table

For extra-long tools such as drills or reamers, the extended swivel table enables perfect tool fixing.



#### Motor zoom

The zoom level is selected in the software at the click of a mouse and automatically adjusted by motor, making measuring processes even more reliable and comfortable.

#### Extended holder for deep hole drills

Support for extra-long tools D 0.118" (3 mm) to D 0.787" (20 mm) up to a length of 39.37" (1000 mm). The support height of the prism can be adjusted. The connection to the extended swivel table is mechanical.



#### **Calibration** gauge

The calibration gauge for the »pomSoft« image processing technology is used to correct the distortion of the optics and to determine the absolute accuracy of the zoom levels. The calibration gauges can be mounted directly on the swivel table.



#### Color laser printer

For report printouts directly on the inspection machine.

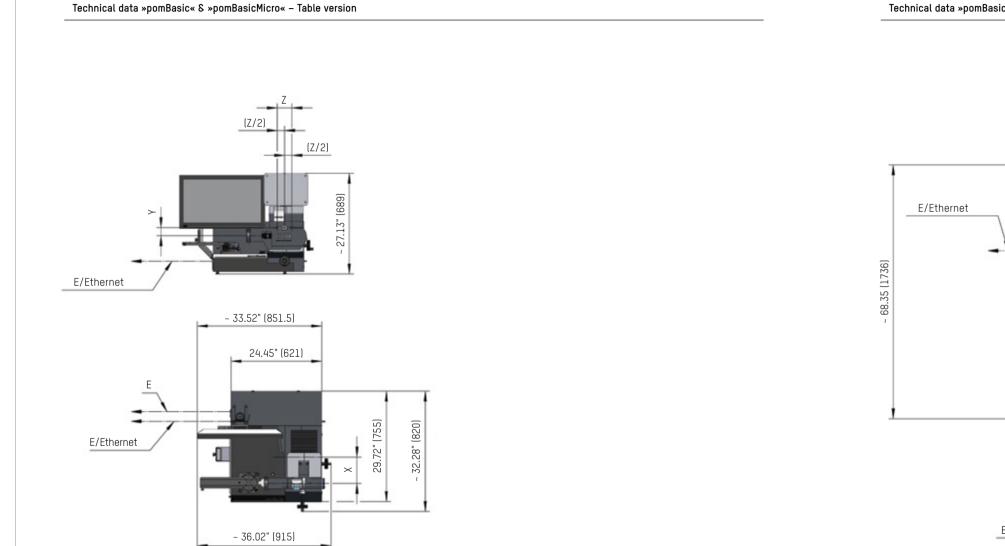
### UPS system

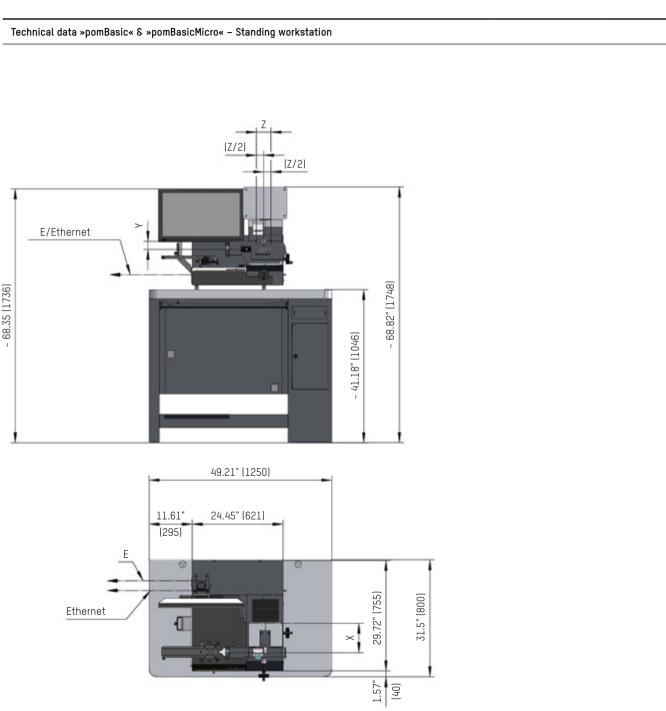
The UPS system for uninterruptible power supply ensures that your computer is shut down properly in the case of a power failure to prevent data loss. Mains voltages of 230 V~ (Europe) and 120 V~ (USA) are available.

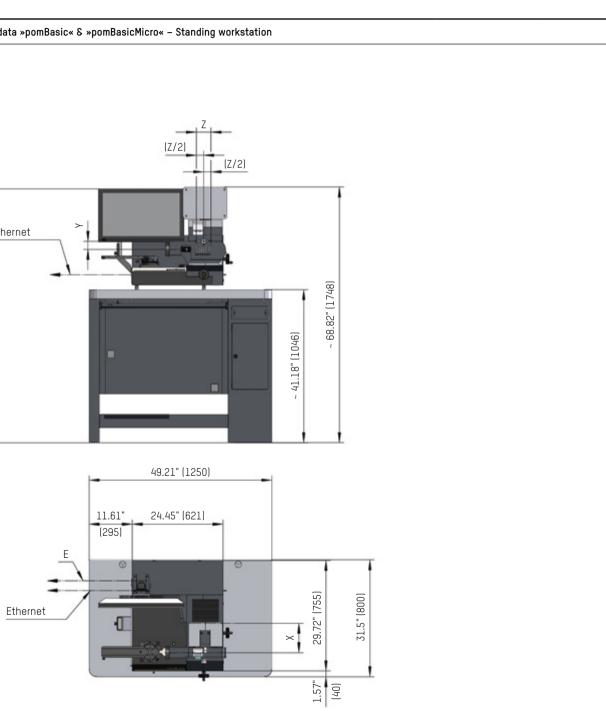




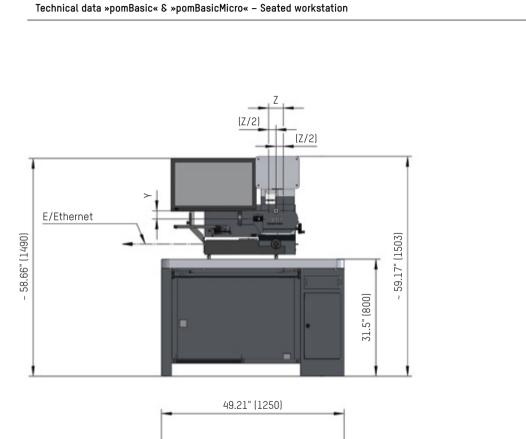
# Installation Dimensions and Technical Data

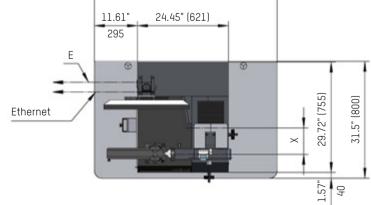






# Installation Dimensions and Technical Data





	Axes
	Swivel table standard
	Swivel table extended
_	Indexing -90°/0°/+90°
_	Manual clamping
	Nonius angle display swivel table
	ROD encoder angle display swivel table
_	Manual endless fine adjustment X/Y
	Manual camera axis
	Electronics
	»pilot 4.0« 24" TFT color monitor
	Device equipment
	Workbench version
	Machine table standing workstation
	Machine table seated workstation
	Camera/sensors
	»pomColorCam«, BF approx. 0.118" x 0.094" (3.0 x 2.4 mm²)
	to approx. 0.819" x 0.654" (20.8 x 16.6 mm²)
	»pomColorCam«-MOT, BF approx. 0.118" x 0.094" (3.0 x 2.4 mm²)
	to approx. 0.819" x 0.654" (20.8 x 16.6 mm²)
	»pomMicroCam«, BF approx. 0.024" x 0.019" (0.6 x 0.5 mm²)
	to approx. 0.311 x 0.248" (7.9 x 6.3 mm²)
	8-fold LED incident light white
	8-folg LED incident light red
	Diffuser white
	Diffuser red
	Technical data
	Travel range X-axis
	Travel range Y-axis
	Travel range Z-axis (camera)
	Clampable shaft diameter
	Zoom lens
	Working distance

»pomBasic«	»pomBasicMicro«
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7.09" (180 mm)	7.09" (180 mm)
2.17" (55 mm)	2.17" (55 mm)
± 1.97" (50 mm)	± 1.97" (50 mm)
0.019" (0,5 mm) to 1.97" (50 mm) (depending on tool holder)	0.019" (0,5 mm) to 1.97" (50 mm) (depending on tool holder)
Video microscope system color with 6.5x optical zoom	Video microscope system monochrome with 12x optical zoom
3.543" (90 mm)	1.97" (50 mm)

# Pioneering Efficiency for your Grinding Shop

The highest potential for greater efficiency lies outside the grinding machine: ZOLLER Solutions stand for your future – we make you more successful. If you can manufacture your parts faster and more efficiently, you can work more economically and invest in the future. If economic progress is your goal, then ZOLLER is your partner.

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### Made in Germany – Available Wherever You Are

Your Advantage **ZOLLER** presence

Global. Close. Personal

ZOLLER quality is "made in Germany" and there for you, anywhere in the world.

Our company has its own locations and branches at 85 sites in 62 countries, guaranteeing we are close to customers and can provide first-class, personal customer service in local markets.

#### HEADQUARTERS

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