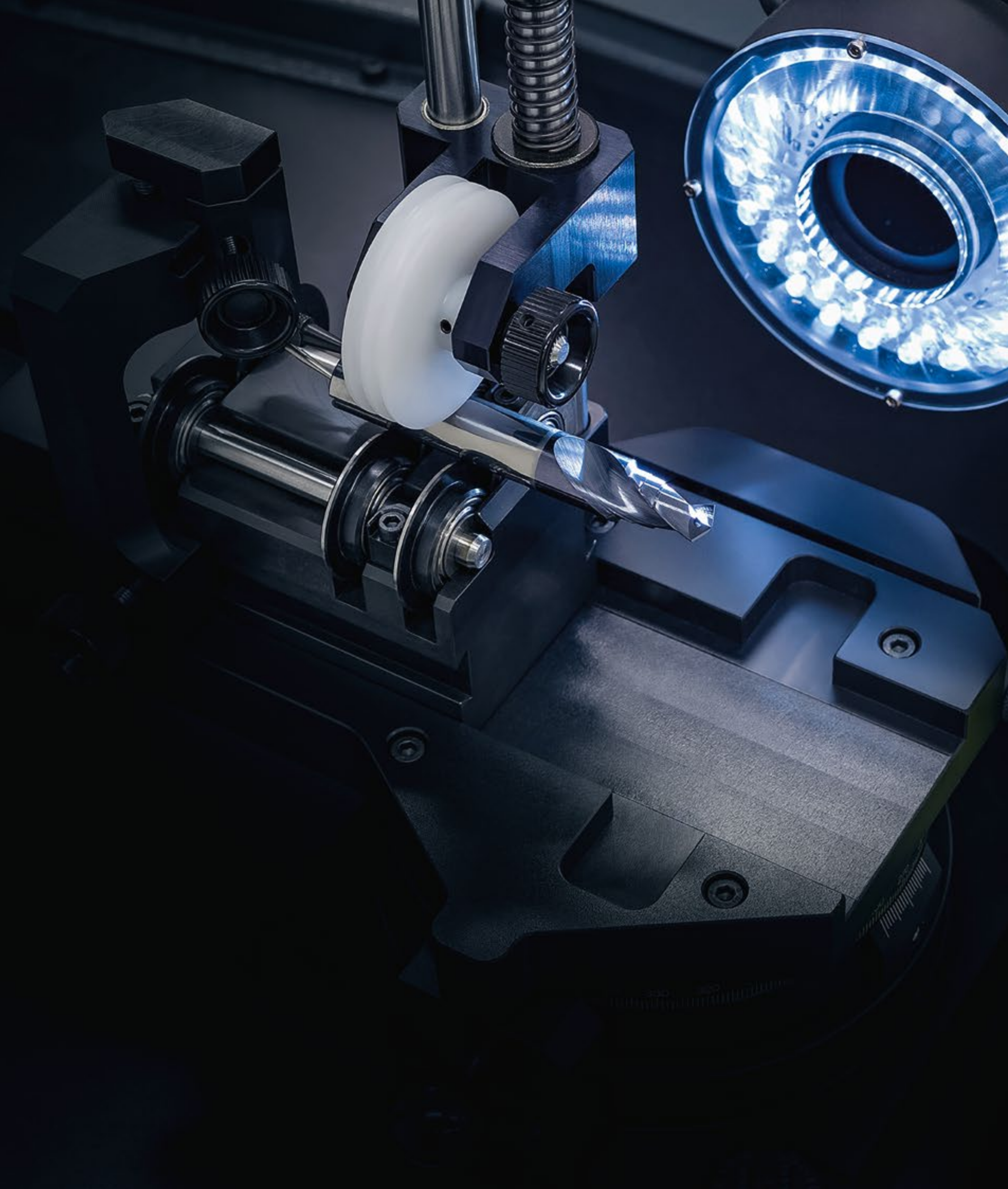


Flexible Compact Solutions
for Tool Inspection

ZOLLER
expect great measures

pomBasic





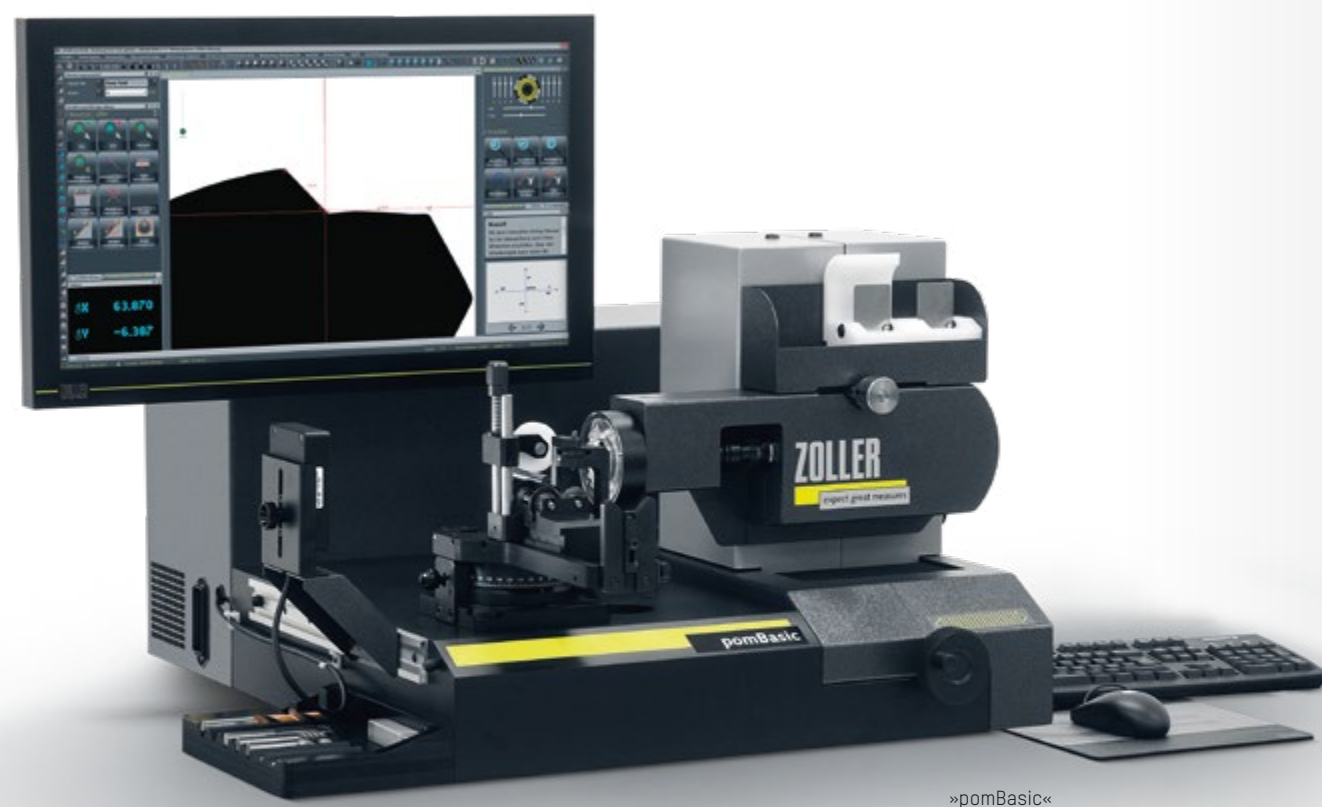
The Basis for Efficient Processes

Do you want to speed up your work processes? Then take the advantage of tool measuring and inspecting! With their compact design, the ZOLLER inspection machines »pomBasic« and »pomBasicMicro« can be placed anywhere in the production area — for example directly next to the CNC grinding machine, in incoming tool inspection, or in final inspection department. This saves you unnecessary travel to the measuring room, and you will profit from efficient processes and precise results in record time.

»pomBasic«
»pomBasicMicro«

»pomBasic«

Insert the tool, start, inspect, and done! It's so easy and quick with the »pomBasic« and »pomBasicMicro« to test almost all round shank tools. With the automatic edge detection, a high level of accuracy is guaranteed.



»pomBasic«

»pomBasicMicro«

Assistant-controlled measuring processes, macros for automated measuring sequences and test protocols at the push of a button ensure efficient production processes and maximum quality.



»pomBasicMicro«

Highlights of »pomBasic« and »pomBasicMicro«:



Incident light measurement



Non-contact measurement



Ergonomic



Transmitted light measurement*



Central ZOLLER tool database

* Optional



C US



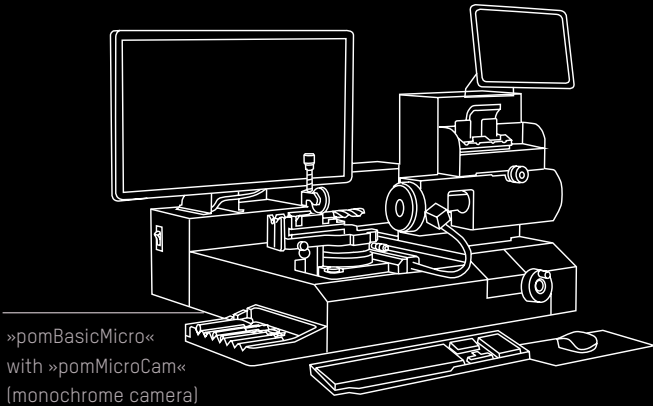
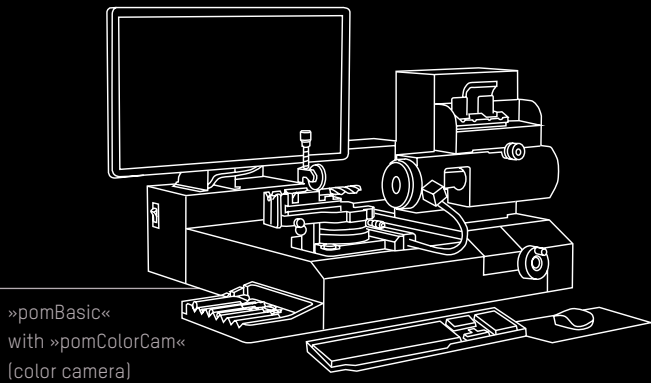
C US

All-around Sophisticated and Compact Design



Technical Data

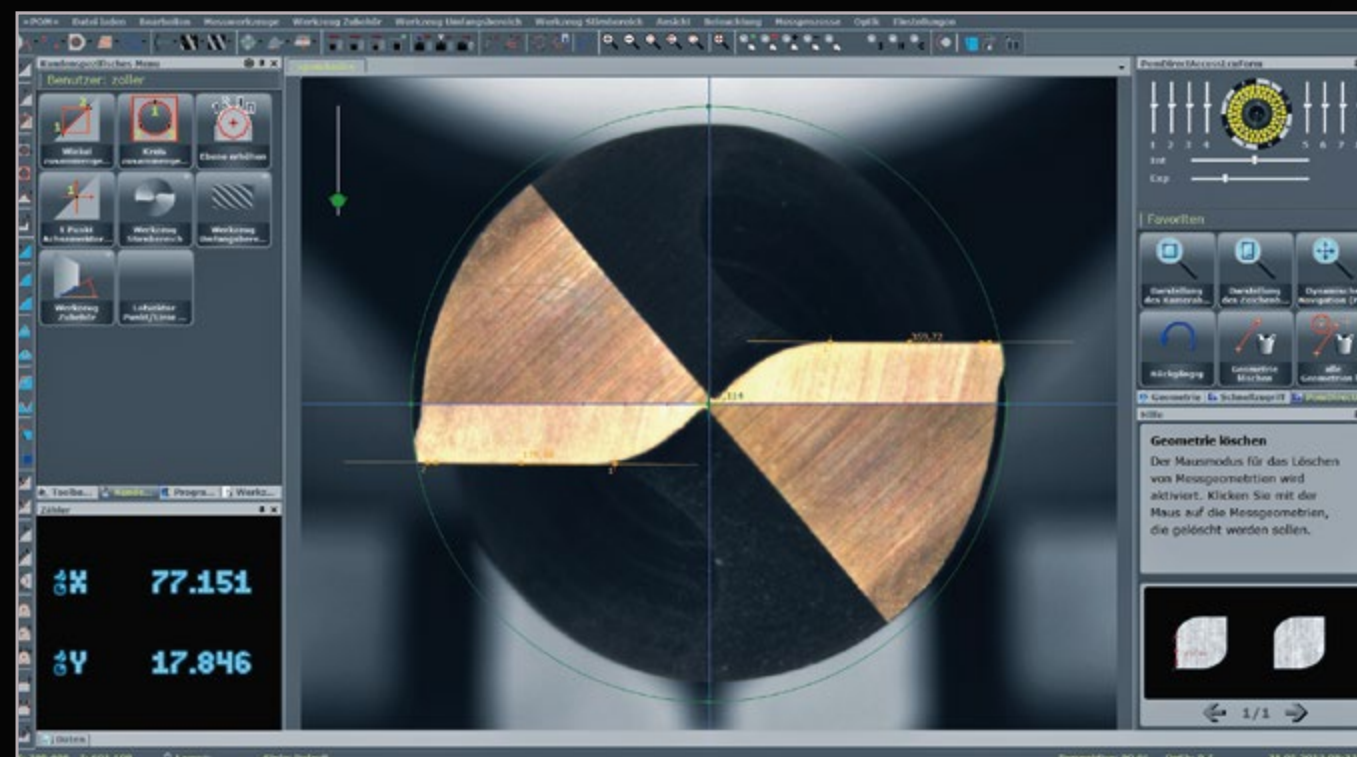
	X-axis	Y-axis	Z-axis (Incident Light Camera)	Measurable and Clampable Shank Diameter	Zoom Lens	Working Distance	Measuring Window W x H
»pomBasic«	180 mm	55 mm	±50 mm	0.5–50 mm (depending on tool holder)	Video microscope system color with 6.5-times optical enlargement	90 mm	3 mm x 2.5 mm – 20 mm x 16 mm
»pomBasicMicro«	180 mm	55 mm	±50 mm	0.5–50 mm (depending on tool holder)	Video microscope system monochrome with 12-times optical enlargement	50 mm	0.6 mm x 0.5 mm – 7 mm x 5.8 mm



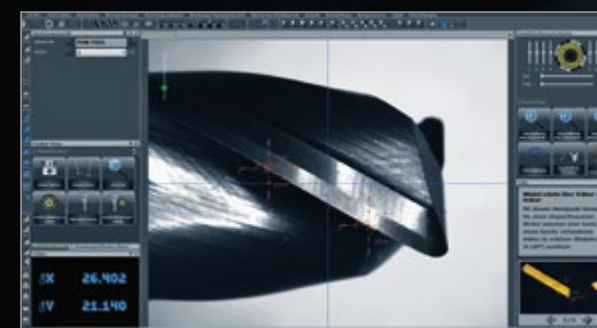
- Typically ZOLLER — maximum precision and user friendly
- Universal design with easy, quick, and intuitive controls
- Ergonomic, compact, and stable construction with high-quality brand components
- Automatic light controls for optimum and high-contrast illumination
- Manual, non-contact measurements, within seconds, and with direct output of results (PDF reports, Excel file, etc.)
- Manual axis adjustment (Z, X, and Y) with an axis resolution of 0.001 mm
- Designed for the shop floor directly next to the CNC grinding machine —or for use in the measuring room

Simply Better Inspection with ZOLLER »pomSoft«

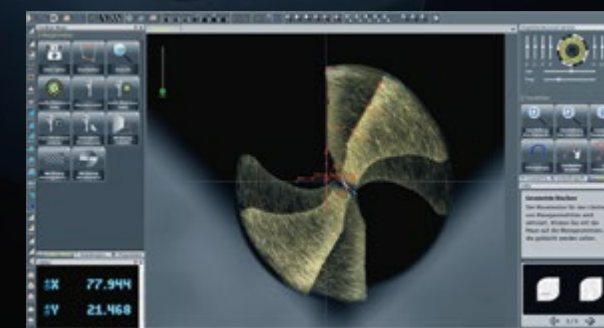
Whether in incident light or transmitted light, the ZOLLER »pomBasic« and »pomBasicMicro« with »pomSoft«, ensures precise results quickly and easily. The software for process-oriented testing is based on the globally proven ZOLLER image processing »pilot 3.0«. It is fitted with numerous evaluation algorithms for grinding and sharpening companies, as well as for tool manufacturers. In addition, every function can be set up and saved individually for the respective inspection tasks and tool versions in the customer-specific menu. This makes its use user-independent and clear, without great training costs.



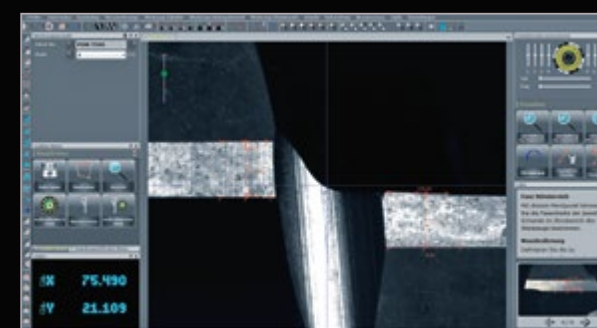
Intuitive controls with a clear software interface for quick and easy testing at the push of a button — and without great training costs.



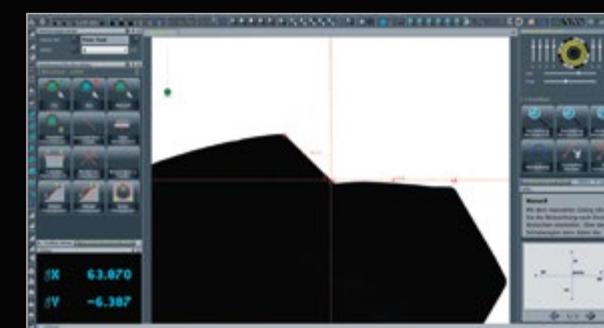
Inspects the tool end and circumferential area (see above) in a matter of seconds, including an automatic and user-independent edge detection for confident and reproducible results.



Direct comparison of the target and actual contour by overlaying saved master images with the live image of the new tool.



High-resolution camera systems with large zoom levels facilitate the analysis of the smallest surface details or the μm -accurate inspection of micro-geometries.

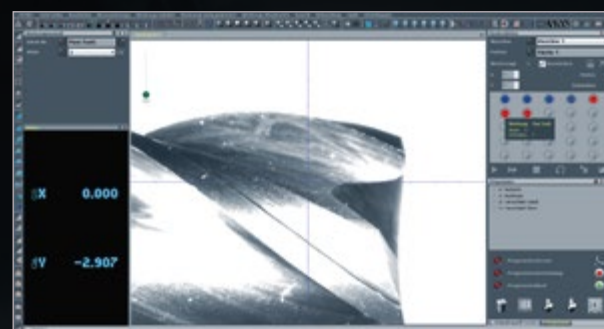


Fast and μm -precise transmitted light measurements in the circumferential area through the optional diffuser (LED flat light).

Guaranteed Sharp — »reGrind«

With the new ZOLLER »reGrind« software module, »pomBasic« and »pomBasicMicro« become electronic caliper gages for all cutting tool wear measurements.

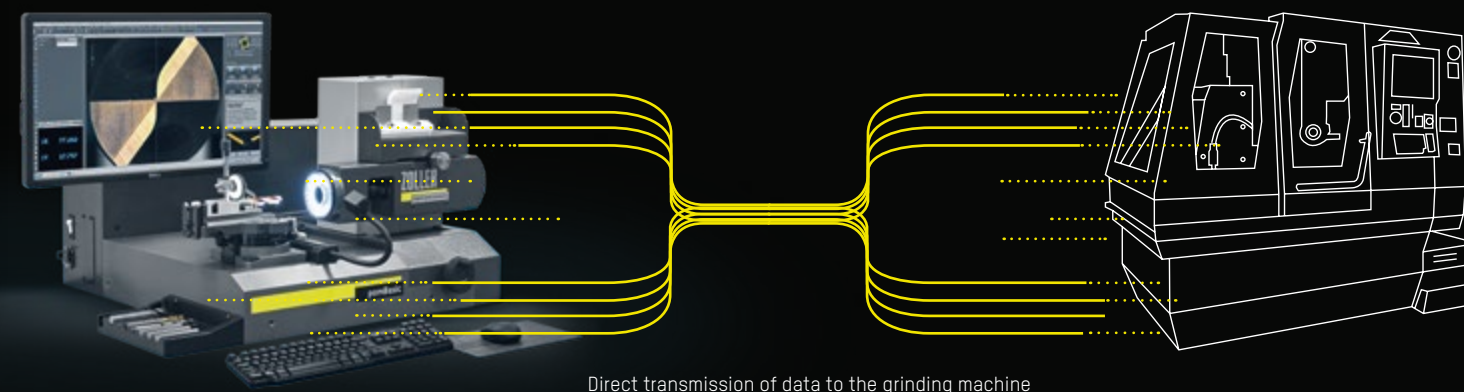
Economic re-sharpening is very easy with »reGrind«. The wear features are recorded during the measurements with »pomBasic« or »pomBasicMicro« and are assigned to the corresponding virtual pallet place. They form the geometric basis in the subsequent sharpening process. Before grinding, the data is transmitted via post processor directly and without error to the grinding machine. The result: Re-grinding is only performed in size of the actual wear, time and costs are saved by preparing pallets operator independent beforehand, while the tools are preserved.



Cutting tools can be tested for wear quickly, with μm -precision independently of the user, then measurements are systematically allocated to the pallet.



The measured wear features are transmitted control-specifically to the respective grinding machine at the push of a button.



Direct transmission of data to the grinding machine

Insert, Tighten and You're Ready to Go.

Ergonomic and quickly changeable
Easiest alignment and positioning
Stable construction for measuring processes

For »pomBasic« and »pomBasicMicro« there are besides the universal tool holder special tool fixtures available. Almost every round shank tool can be inserted and measured using these inspection machines.

Shank tools Ø 2-50 mm
(depending on tool holder)



Collet chuck adapter
D32 mm BabyChuck with
additional collet chuck
D0.5 mm – D8 mm*



Premium Reversible Cutting Insert
Holder*



Fixator holder with inner or
outer clamping*



Shank tools Ø 1 – 6 mm



Shank tools Ø 1.5 – 16 mm



Collet chuck »pomRoto«
D1.5 – D16 mm*



»pomRoto« rotation unit*,
clampable shank diameter as a result of collet chuck: 1.5 – 16 mm,
max. tool length: 400 mm, rotation accuracy: 0.006 mm

Tool holding fixture »pomPrisma«-Basic*,
for shank diameter: 1 – 6 mm,
max. tool length: 100 mm



»pomRoll«-RP lite* tool holding fixture
for »pomBasic«
direct clampable shank diameter: 4 – 25 mm,
concentricity 0,004 mm



»pomPrisma« tool holding fixture* (3 model options),
for »pomBasic« and »pomBasicMicro«,
direct clampable shank diameter: 2 – 50 mm



»pomRoll«-RP lite* tool holding fixture
for »pomBasic« and »pomBasicMicro«,
direct clampable shank diameter: 3 – 19 mm,
concentricity 0,004 mm



Swiveling Table

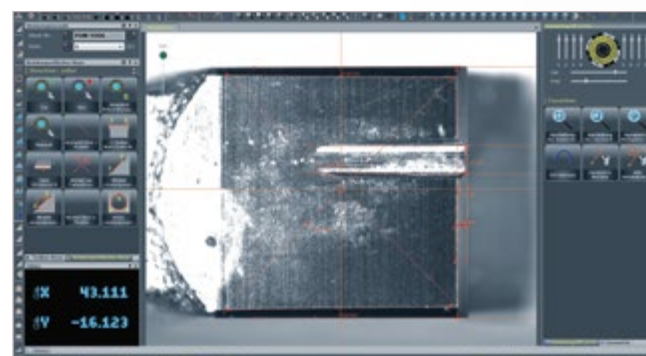
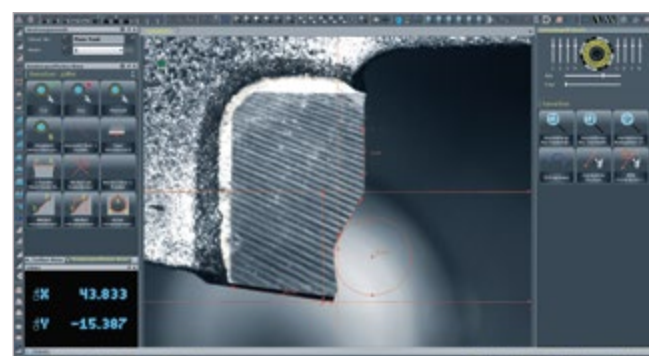
The manual swiveling table enables universal clamping of the various »pomBasic« and »pomBasicMicro« tool holders. Fitted with a 3 x 90° indexing, the circular positioning can be variably adjusted to measure at the OD and the end of the tools (± 120° including nonius). The position is held precisely as a result of the clamping (index position for -90°/0°/+90°). There is an optional table version for very long tools with lengths up to 330 mm.

Rotary Encoder (R0D)*

The rotary encoder (R0D) can optionally be integrated into the swiveling table. The angle information is provided digitally in counter mode (C-axis). The angle display allows fast positioning of the table to nominal angle, for example, in relation to the required angle in »pomSoft« image processing.

Cut Better – with the Saw Blade Holder for »pomBasic«

The modular saw blade holder further expands the application spectrum of »pomBasic«. Blades with a diameter of 150 mm to 600 mm can be clamped with various bushings. A large number of tooth parameters and geometries can be measured axially and radially with »pomSoft« image processing in incident light.



Axial Measurement

Measurable parameters, e.g. in the axial position:
Clearance angle, hook angle, groove shape, groove depth,
cutting length, eccentricity, tooth quality

Radial Measurement

Measurable parameters, e.g. in the radial position:
Tooth quality, blade thickness, clearance angle top / bottom,
tooth width



ZOLLER blade holding fixture for the »pomBasic« inspection machine

Accessories and Options



»pom« Base Table

Dimensionally stable and reliable positioning of the »pomBasic« and »pomBasicMicro« inspection units as a stand or seat workstation. Including extendible board for mouse and keyboard.

LED Illumination tube (White / Red LEDs)

Height adjustable additional lighting for high-contrast illumination of even small surfaces at the cutting edge - radial as well as axial in incident light.

_ White LED for »pomBasic«
_ Red LED for »pomBasicMicro«

Reflector

Using a reflector allows you to simulate a transmitted light measurement. To this end, it reflects the light (LED illumination) from the thermoplastic plate back into the camera system. Furthermore, the reflector has a tool stop made of stainless steel.

Stop

The stop serves to position the tool tip to the spindle center. Repeated measurements of identical tools can be executed faster.

Diffuser (white/red)

The diffuser enables transmitted light measurement at the radial area OD (Outer Diameter) of the tool. The diffuser (LED flat light) is positioned opposite to the video microscope system. This enables measurement of maximum outer contours, step lengths, point angles, radii etc, without helical influences.

_ White diffuser for »pomBasic«
_ Red diffuser for »pomBasicMicro«

Tool / Accessory Tray

The tool / accessory tray enables storage of tools with shank diameters of up to D50 mm. Reduction sleeves for fast tool change can also be stored. It is mounted on the left side of »pomBasic«.

Drawing Holder

The drawing holder is ideal for displaying drawings in close proximity to the measurement. Magnets and the magnetic ball joint allow drawings, model plates or similar useful items to be held in place easily. It is mounted on the right front side of »pomBasic«.

Color Laser Printer

The color laser printer for report and list printing has a memory of 128 MB (upgraded to 640 MB), a printing speed up to 20 pages/minute, a maximum resolution of 1,200 x 1,200 dpi, and a universal paper cassette for 250 pages (A4 and smaller).

ZOLLER Service

Faster, more flexible, more operationally reliable – your goal is to achieve maximum efficiency in your production operations. Our goal is to help you with this by providing well-conceived system solutions. We also provide comprehensive service and support that may involve an on-site consultation or development of made-to-measure solutions to suit individual requirements. Choosing ZOLLER means choosing superlative products and unique manufacturing expertise. Needless to say, you have access at all times to experts that will answer your questions – for the entire lifetime of your ZOLLER products. Use ZOLLER know-how to optimize your production operations.



Alexander Zoller | Christoph Zoller

ZOLLER Solutions

From us, you get more than superior products. You obtain individual system solutions for every aspect of your tools. To achieve this for you, we combine hardware, software, and service support. All from a single source. All for your success. We call that ZOLLER Solutions.

Service & Data

At Home in Germany – around the World for You

- Parent company
- Headquarters
- Branch office
- Representative

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 guarantee-
ing we are close to customers and can provide
first-class, personal customer advising in local
markets.

GERMANY

HEADQUARTERS
E. Zoller GmbH & Co. KG
Presetting and measuring machines
Gottlieb-Daimler-Straße 19
D-74385 Pleidelsheim
Tel: +49 7144 8970-0
Fax: +49 7144 8970-70191
post@zoller.info | www.zoller.info

ZOLLER NORTH
E. Zoller GmbH & Co. KG
Service and Sales Center
D-30179 Hannover

ZOLLER EAST
E. Zoller GmbH & Co. KG
Service and Sales Center
D-04158 Leipzig

ZOLLER WEST
E. Zoller GmbH & Co. KG
Service and Sales Center
D-40764 Langenfeld

AMERICA

USA
ZOLLER Inc.
North America Headquarter
USA-48108 Ann Arbor, MI
sales@zoller-usa.com | www.zoller-usa.com

ZOLLER Inc. Pacific
USA-90503 Torrance, CA
sales@zoller-usa.com | www.zoller-usa.com

CANADA
ZOLLER Canada Inc.
CAN-LSN 864 Mississauga, ON
sales@zoller-usa.com | www.zoller.info

MEXICO
ZOLLER Tecnologías S de R.L. de C.V.
Col. San Angel Querétaro
Qro. C.P. 76030, Mexico
sales@zoller-usa.com | www.zoller.info

BRASIL
ZOLLER do Brasil
Nova Vinhedo, Vinhedo – São Paulo
CEP 13284-198.

EUROPE

AUSTRIA
ZOLLER Austria GmbH
A-4910 Ried im Innkreis
office@zoller-a.at | www.zoller-a.at

SWITZERLAND
ZOLLER Schweiz GmbH
CH-9016 St. Gallen
info@zoller-ch.com | www.zoller-ch.com

FRANCE
ZOLLER France
F-67380 Lingolsheim
info@zoller.fr | www.zoller.fr

SPAIN + PORTUGAL
ZOLLER Ibérica S.L.
E-08006 Barcelona
correo@zoller.info | www.zoller.info

TURKEY
Zoller Ölçüm Teknolojileri San.ve Tic. Ltd. Sti.
TR-16120 Nilüfer / Bursa
info@zoller-tr.com | www.zoller-tr.com

RUSSIA
LLC ZOLLER Russia
RU-111123 Moscow, Russia
info@zoller-ru.com | www.zoller-ru.com

ISRAEL
ZOLLER Israel GmbH
Ramat Yishay 3009500
info@zoller-il.com | www.zoller.info

POLAND
ZOLLER Polska Sp. z o.o.
60-104 Poznan
biuro@zoller-a.at | www.zoller.net.pl

SLOVAKIA + CZECH REPUBLIC
ZOLLER CZECH s.r.o.
602 02 Brno
suchna@zoller.cz | www.zoller.cz

ASIA

INDIA
ZOLLER India Private Ltd.
IN-Pune 411019 Maharashtra, India
info@zoller-in.com | www.zoller-in.com

CHINA
ZOLLER Shanghai, Ltd.
Asia Pacific Regional Headquarter
RC-201108 Shanghai
info@zoller-cn.com | www.zoller-cn.com

ZOLLER Asia Pacific, Ltd.
RC-Kowloon, Hongkong
info@zoller-cn.com | www.zoller-cn.com

JAPAN
ZOLLER Japan K. K.
JP-564-0037 Osaka, Japan
info@zoller-jp.com | www.zoller-jp.com

THAILAND
ZOLLER (Thailand) Co. Ltd.
Amphur Muang Chonburi, TH-20000 Thailand
info@zoller-in.com | www.zoller-th.com

INDONESIA
ZOLLER Singapore Pte. Ltd
Indonesia Representative Office
Tambun - 17510, Bekasi, Jawa Barat
info@zoller-in.com | www.zoller-in.com

SINGAPORE
ZOLLER Singapore Pte. Ltd
SG – 199589 Singapore
info@zoller-in.com | www.zoller.info

MALAYSIA
ZOLLER MALAYSIA SDN. BHD.
Malaysia Representative Office
MY-Petaling Jaya | Selangor Darul Ehsan,
Malaysia
lau@zoller-my.com | www.zoller-in.com

VIETNAM
ZOLLER Vietnam
VNM–Ho Chi Minh City, Vietnam
info@zoller-in.com | www.zoller-in.com

KOREA
ZOLLER Korea Co., Ltd.
KOR–15119 - Siheung-Si, Gyeonggi-Do,
South Korea
info@zoller-kr.com | www.zoller-kr.com

REPRESENTATIVES

Argentina, Australia, Belarus, Belgium, Bolivia,
Brasil, Chile, Costa Rica, Colombia, Croatia, Denmark,
Estonia, Finland, Great Britain, Hungary, Iran, Ireland,
Italy, Latvia, Lithuania, Luxembourg, New Zealand,
Netherlands, Norway, Pakistan, Peru, Romania,
Saudi Arabia, Sweden, South Africa, South Tyrol,
Taiwan, United Arab Emirates, Venezuela



ZOLLER Solutions

More speed, higher quality, reliable processes –
with ZOLLER you get more out of your production process.
We combine hardware, software and service
to create optimum system solutions for presetting,
measuring, inspecting and managing tools.

Presetting & Measuring

Tool Management

Inspection & Measuring

Automation

Everything from a single source.
Everything for your success.
Everything with ZOLLER Solutions.

ZOLLER
expect great measures

Headquarters in Pleidelsheim
E. ZOLLER GmbH & Co. KG
Tool presetter and measuring machines
Gottlieb-Daimler-Straße 19 | D-74385 Pleidelsheim
Phone: +49 7144 8970-0 | Fax: +49 7144 8970-701917
post@zoller.info | www.zoller.info