

ZOLLER
expect great measures

The Universal High-End Measuring Machine
for Manufacturers of Threading Tools

threadCheck | cc



We Stand for Smart Progress

ECONOMICS

The »threadCheck|cc« universal high-end measuring machine from ZOLLER sets new standards for the fully automatic complete measurement of all types of cutting tools, specializing in threading and gear cutting tools.

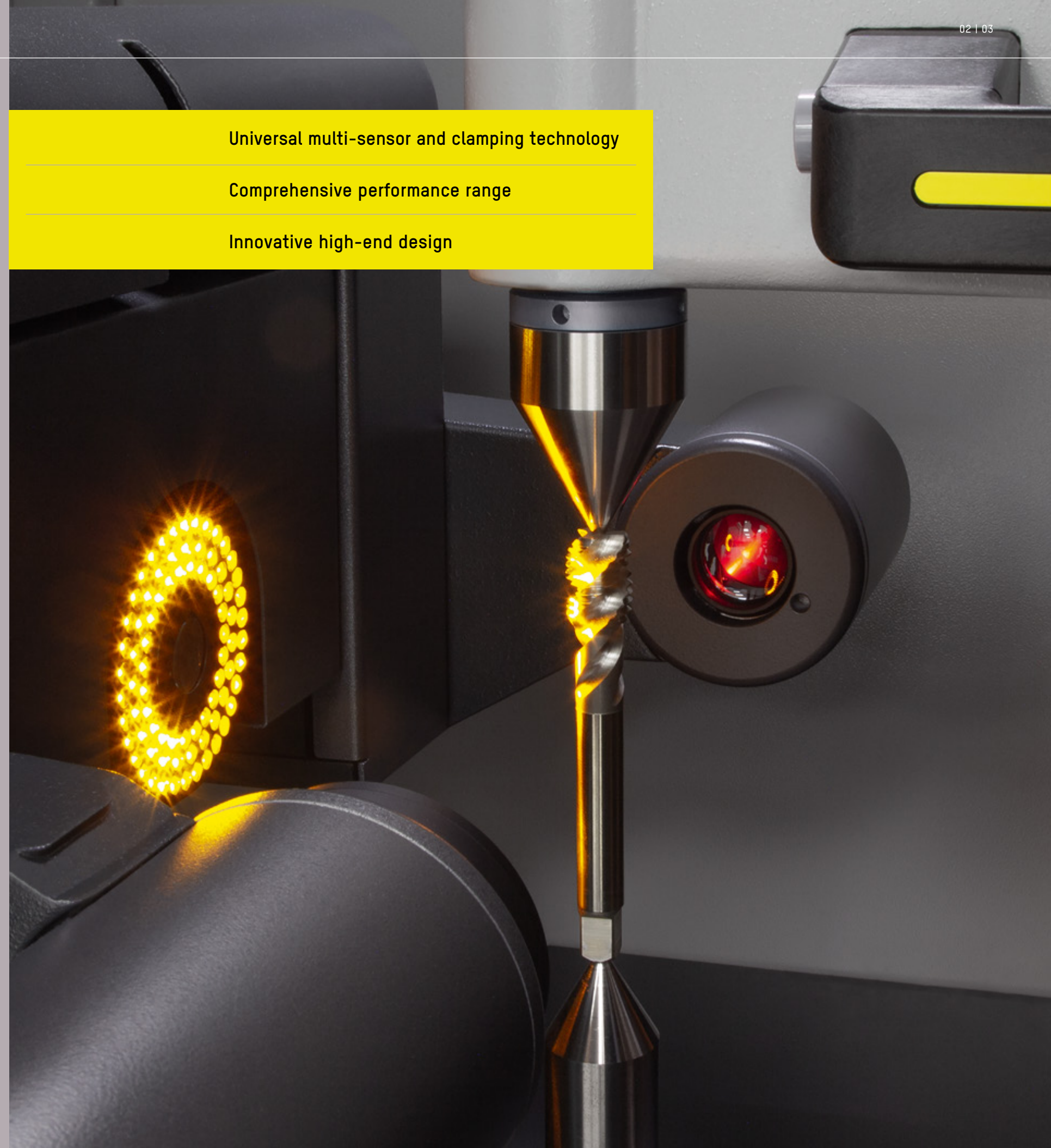
Experience top class innovation from ZOLLER. The »threadCheck|cc« impresses with its fully automatic and μm -accurate measuring technology in transmitted and incident light – from measuring the outer contour of the tools to operator-independent complete inspection. The integrated tailstock allows tools to be clamped between centers. Automated loading is ensured by the CNC control of the tailstock. All measurement results are recorded clearly and in detail.



Universal multi-sensor and clamping technology

Comprehensive performance range

Innovative high-end design



Innovative Measuring and Inspection Technology

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 for measuring and inspecting all types of precision tools, from taps/thread cutters through to gear cutting tools.

Thanks to the intelligent combination of image processing technology, CNC axes and measuring probes, all important parameters can be measured fully automatically. The distortion-free measurement and inspection of tools with pitches and precision tools of all kinds makes the ZOLLER »threadCheck|cc« the universal genius.



Calibrating measuring machines on site with certified inspection tools and reference standards is an important part of quality assurance at E. ZOLLER GmbH & Co. KG. This enables us to guarantee reliable measurement results and the high precision of your products in accordance with applicable standards.

»threadCheck|cc«

ZOLLER



Accredited calibration laboratory
according to DIN EN ISO/IEC 17025:2018



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

We Stand for Unmatched Precision

TECHNOLOGY

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.

Every »threadCheck|cc« is a promise to our customers. The fully automatic measurement of cutting tools knows no limits. By connecting the »threadCheck|cc« to the ZOLLER »roboSet 2« you step into the future of automation.

Everything about this measuring machine is just right for me. All the components are perfectly coordinated and optimally installed. In the assembly team, I am part of this high-end design – for maximum convenience through to ease of service work.

GEORG BÄR

Part of the ZOLLER assembly team

Production at premium level

Unique operating concept

Outstanding measuring technology



Perfection in Detail

Incident light camera with multi-LED segment illumination and CNC swiveling device – for the inspection and automatic measurement of tool geometries on the circumference, in the chip space and on the face. Simply enter the target parameters in the measuring program dialog and every measured variable is automatically measured and logged: rake angle, radial relief angle, flute contour, chamfer width and many other geometries. The high-performance LEDs, segmented into eight areas, are automatically controlled by the measuring system and ensure optimum illumination of the surface thanks to automatic intensity control – for high precision and repeated accuracy. The sensor equipment is configurable.

Control panel – with active ventilation. The electronic components are installed carefully and securely for defect-free operation. It also ensures optimum accessibility for maintenance and service work.

Swiveling multi-sensor optics carrier »orthoScan« – always finds the perfect viewing angle on the tool. This means that the cutting edge geometries of tools with a pitch, such as taps or hob cutters, can be measured in transmitted light without distortion.

Space-saving and ergonomic sliding door – reliably keeps out external influences such as dirt or extraneous light during measurement. The generous opening, even in the upper area, allows heavy tools to be loaded and unloaded using lifting gear or a crane.

High-end design – with the device base made of hard stone as a high-precision platform for the measuring device tower, spindle and tailstock.

Safety package – in which important operating elements are located at the front of the measuring machine. This means you always have unrestricted access to the emergency stop switch, the reset button, the membrane keypad and the button for starting measuring processes.

Vibration decoupling – the integrated, active vibration damping with automatic level control absorbs external vibration influences at the installation site.



Transmitted light camera with multi-LED illumination – with high-quality, low-distortion optics and telecentric transmitted light, enables the μm -precise measurement of cutting edge contours and step geometry in the silhouette with up to 5 megapixels. The camera has a high frame rate for fast focus and contour recording from the tool rotation. The multi-LED ring light ensures bright, high-contrast illumination of the cutting edge inspection in incident light.

Pneumatic tailstock – with high-precision moving center allows the holding of long and thin tools as a counter center as well as clamping between centers. The smooth-running quick adjustment allows sensitive entry into the tool center and the automatic pressure build-up ensures that the tools are held securely without distortion. In addition, the integrated CNC drive enables automation for loading and clamping between centers.

High-precision spindle »ace« – guarantees μm -accurate holding and clamping of all types of tools and holders. Adaptation to many tool holder systems is guaranteed by the universal adapter tool post changing system. The CNC drive with autofocus and precise angle measuring system offers automatic focusing of the tool cutting edge and recording of the cutting contour.

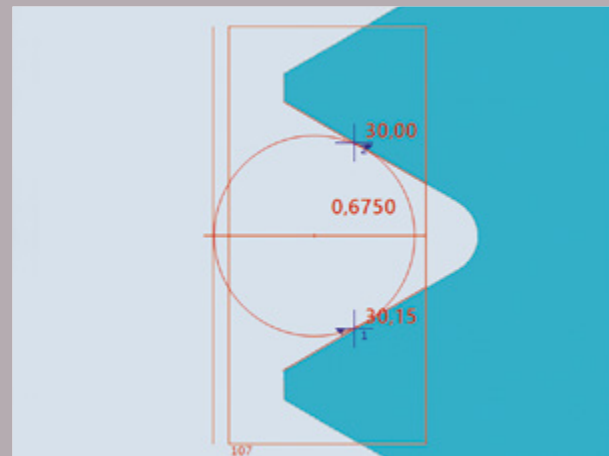
Software »pilot 4.0« – is self-explanatory, clearly laid out and enables the operator to take reliable measurements. It offers a uniform user interface on all ZOLLER systems – right up to ZOLLER TMS Tool Management Solutions. The individual structure of the software allows customer-specific adaptations to be implemented quickly.

Control unit »cockpit« – offers the operator ergonomics and comfort through individual adjustment options. The »cockpit« can be adjusted in height and position and the 24" TFT color monitor can also be tilted.

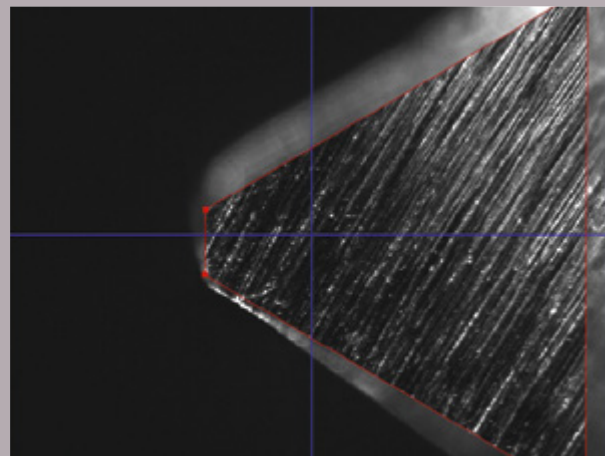
Storage options – for adapter tool posts and intermediate sleeves can be found in the integrated shelves. This means you always have your accessories to hand.

High-Precision Sensors for Measuring Technology

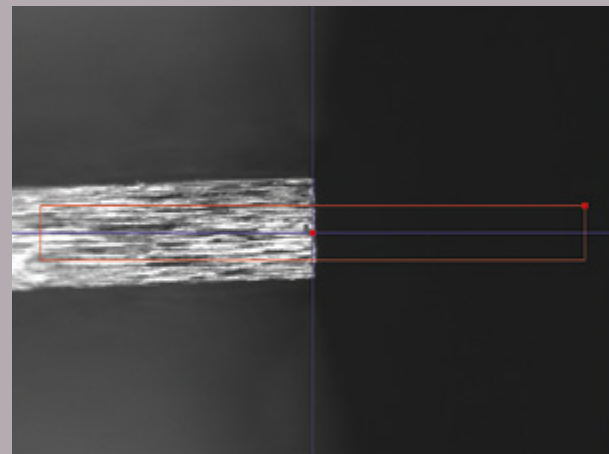
With the ZOLLER »threadCheck|cc« you measure without contact in transmitted light and incident light. Equipped with a CNC-controlled swiveling optics carrier and transmitted light and incident light image processing, you can precisely and automatically measure almost anything on cutting tools of any kind as well as on threading and gear cutting tools. 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. The optional electronic measuring probe offers additional measuring options on threading and gear cutting tools.



2D transmitted light measurement on the circumference



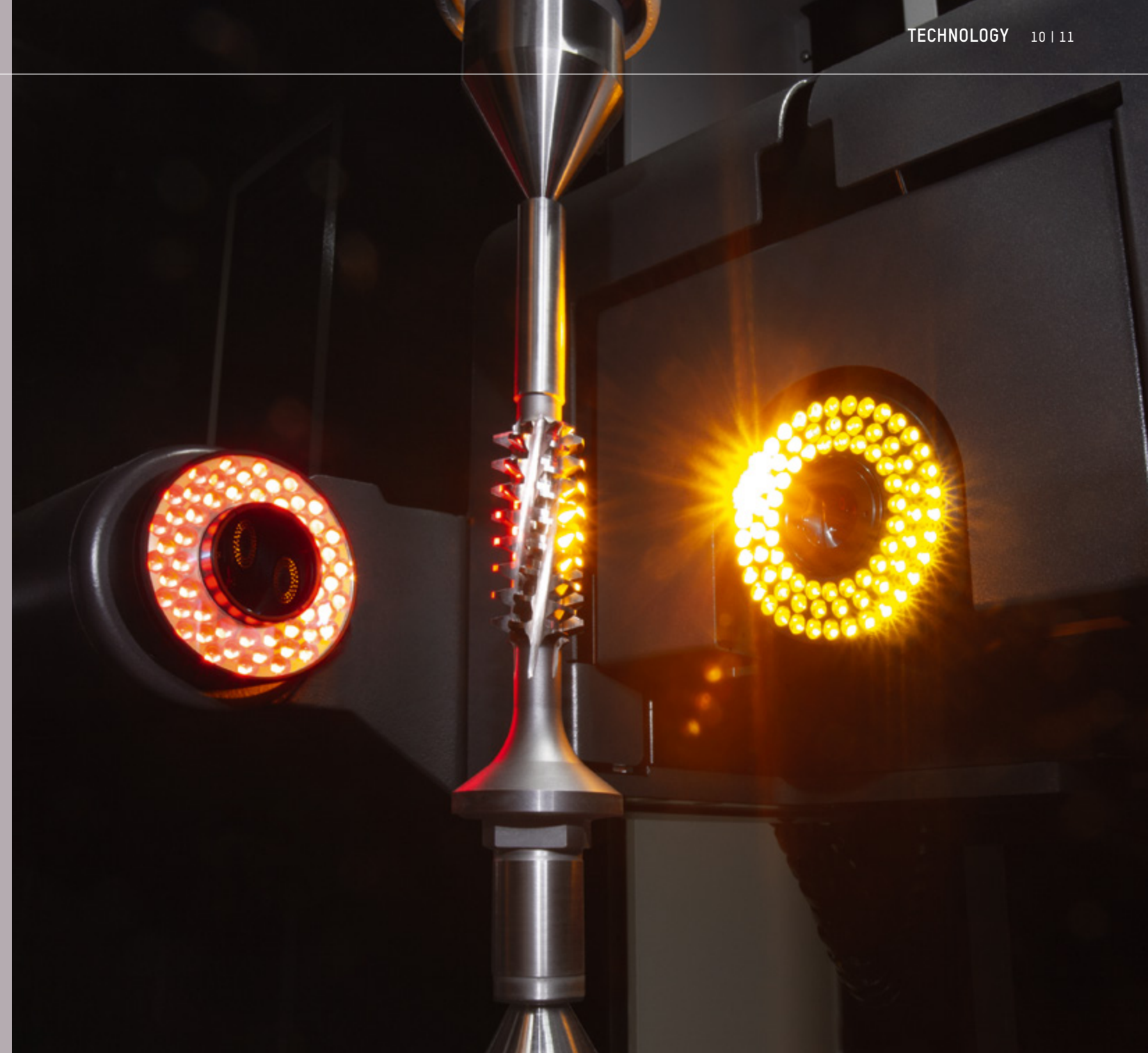
3D contour measurement in the chip space



2D incident light measurement on the circumference



Electronic measuring probe



| Sensors configuration | |
|---|---|
| Optics transmitted light | |
| Transmitted light camera HR70, BF approx. 0.15" x 0.14" (4.0 x 3.6 mm ²) | ● |
| Transmitted light camera 5 Mpx, BF approx. 0.17" x 0.15" (4.4 x 4.0 mm ²) | ⊙ |
| Transmitted light camera WF, BF approx. 0.61" x 0.55" (15.5 x 14.1 mm ²) | ⊙ |

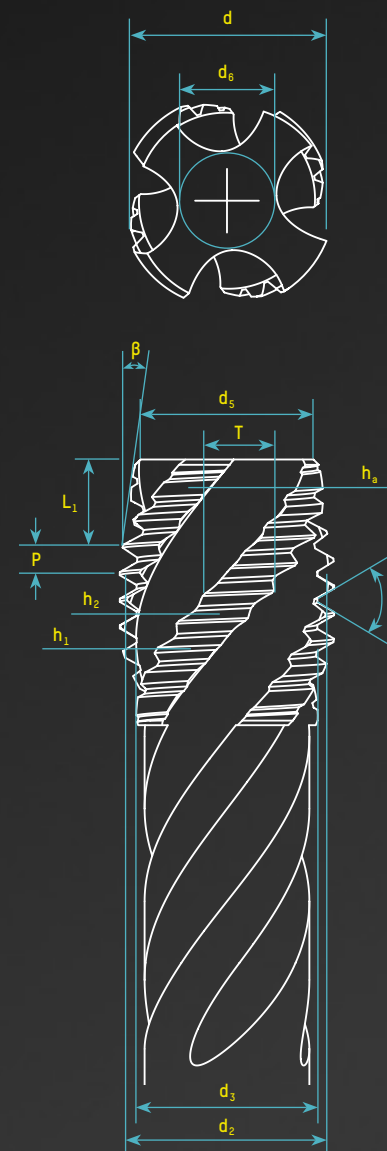
| Sensors configuration | |
|--|---|
| Optics incident light | |
| Incident light camera HR50 Standard, BF approx. 0.04" x 0.03" (1.1 x 1.0 mm ²) | ● |
| Incident light camera HR50 Micro, BF approx. 0.01" x 0.01" (0.4 x 0.4 mm ²) | ⊙ |
| Tactile | |
| Scanning measuring probe | ⊙ |
| Switching measuring probe | ⊙ |

● Base model ⊙ Optional

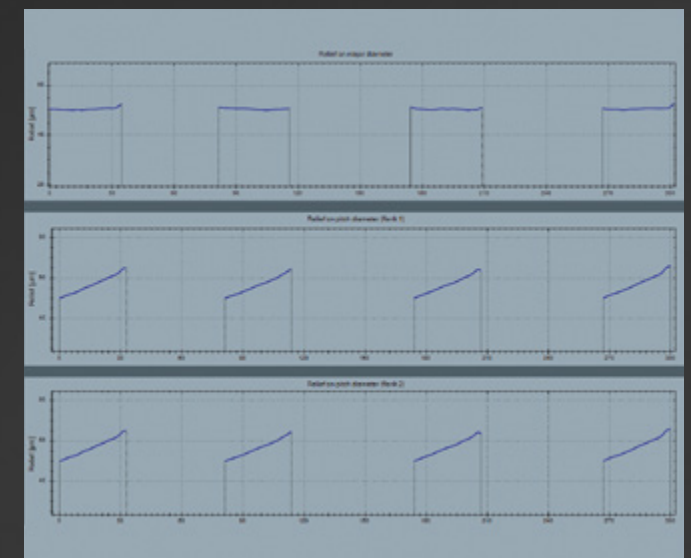
Thread Types in Focus, Fascination in Detail

Measurable parameters at a glance:

- Chamfer diameter d_5
- Chamfer angle β
- Chamfer length L_1
- Chamfer relief h_a
- Thread angle α
- Height of fundamental triangle H
- Root truncation C
- Pitch P
- Pitch diameter d_2
- Major diameter d
- Radial runout major diameter \nearrow
- Minor diameter d_3
- Taper pitch diameter Δ_2
- Taper major diameter Δ_1
- Taper minor diameter Δ_3
- Flank diameter (offset teeth) D_{ave}
- Length of thread part L_2
- Diameter of shank recession d_7
- Shank diameter d_4
- Land width T
- Flute width S
- Length of spiral point L_3
- Slope angle spiral point γ_3
- Inclination angle spiral point λ
- Cutting angle spiral point γ_2
- Cutting angle γ_1
- Flute core diameter d_6
- Flute length L_4
- Major diameter relief h_1
- Pitch diameter relief h_2

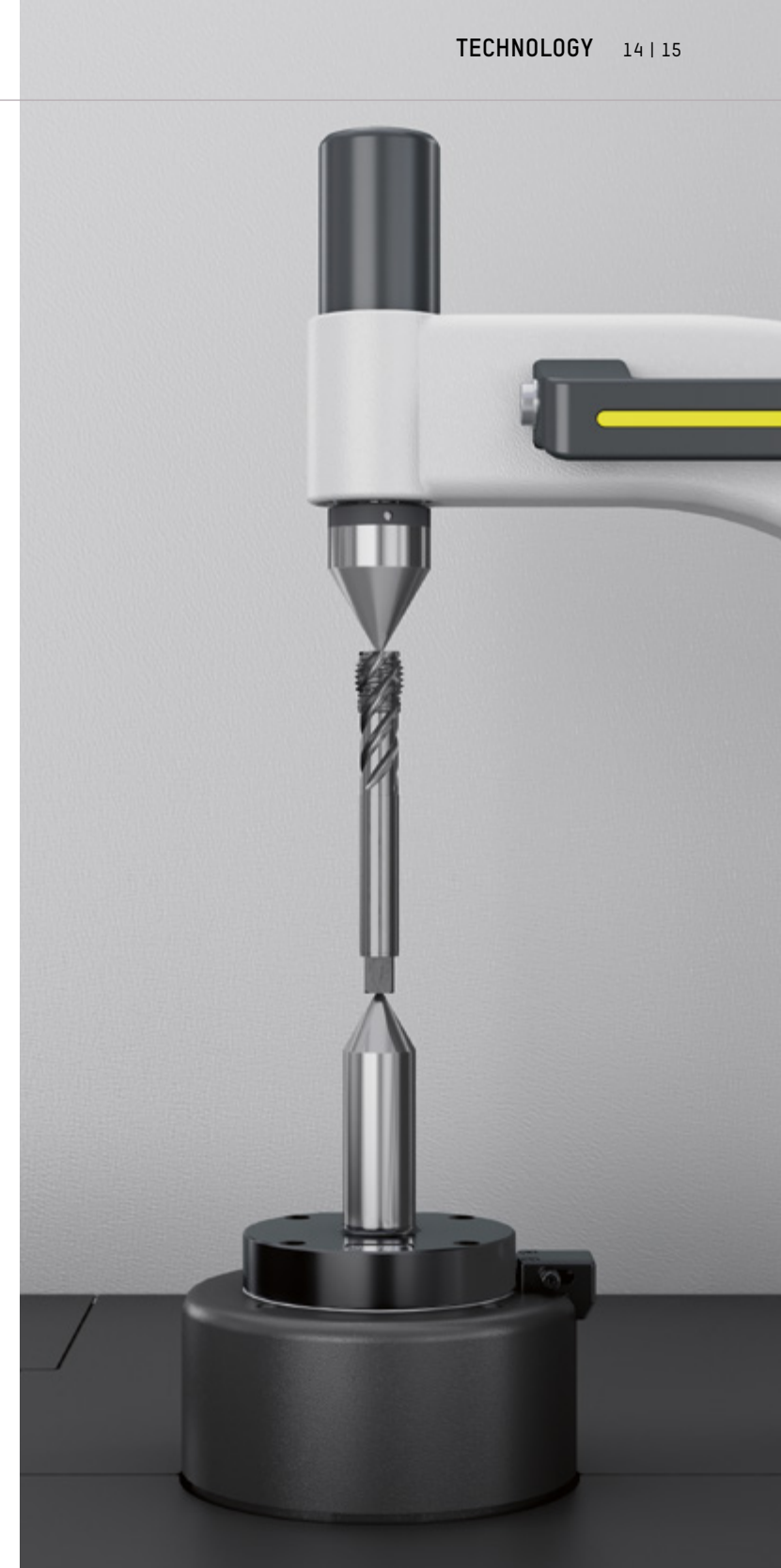


Measuring technology for threading tools – specially developed for the requirements of threading tools, enables fully automatic measurement in transmitted and incident light of all relevant parameters of taps, thread cutters and thread formers.



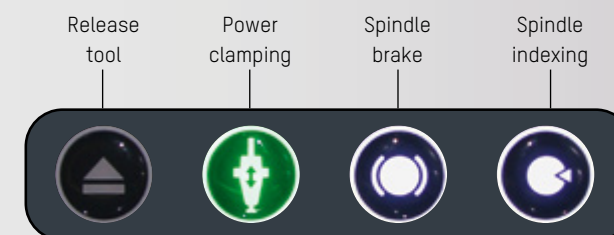
Graphic display – of specific measured values such as the relief on the major or flank diameter, in addition to the numeric measurement results.

High-Precision Spindle »ace«



High precision spindle »ace« – with power clamping and quick-change system

- Power-operated tool clamping** – constant, independent of the user
- High axial and radial run-out accuracy** – better than 2 µm
- Ergonomic spindle handwheel** – for safe rotation of the spindle and precise focusing of the tool cutting edge
- Pneumatic spindle brake and indexing** – for fixing the spindle in the desired position
- High changing accuracy of adapter tool posts** – better than 1 µm
- Quick adapter tool post change** – in less than 10 seconds
- Integrated calibration spheres on adapter tool posts** – for simple, quick and precise determination of the spindle zero point
- Automatic zero point selection** – automatic detection and calibration of the adapter tool post used



»threadCheck|cc« Becomes the Hob Specialist

Based on the ZOLLER »pilot 4.0« software, the »hobCheck« software makes the fast and µm-accurate measurement of gear cutting tools child's play. Cylindrical hobs are measured fully automatically and evaluated in accordance with DIN 3968. By specifying the quality class, the tolerances of the measurement parameters are classified accordingly after measurement. For example, the radial/axial run-out of the inspection collars, form and position deviation of the rake face, form deviation of the cutting edge, tooth thickness, flute direction and much more are determined. The measuring process is fully automatic. Depending on the evaluation options, teeth are focused, measurements are carried out optimally for the measuring task using image processing or measuring probes and the optics carrier is swiveled for certain measurements.

Measurable parameters according to DIN 3968:

- Concentricity deviation on inspection collars
- Concentricity deviation on the clamping surfaces
- Concentricity deviation at the tooth head
- Form and position deviation of the rake faces*
- Individual pitch of the flutes*
- Pitch jump of the flutes*
- Total pitch of the flutes*
- Flute direction over 100 mm cutter length*
- Form deviation of the cutting edge
- Tooth thickness on the reference cylinder
- Milling pitch height in pitch direction between any cutting edges of a helix
- Milling pitch height between cutting edges of a thread
- Engagement pitch
- Pressure pitch
- Axial pitch

* Precondition electronic measuring probe

All highlights at a glance:

- Intuitive graphical user interface
- Automatic assignment of the quality class
- Re-measurement function
- Short measuring times
- Combination of image processing and measuring probe
- Representative documentation

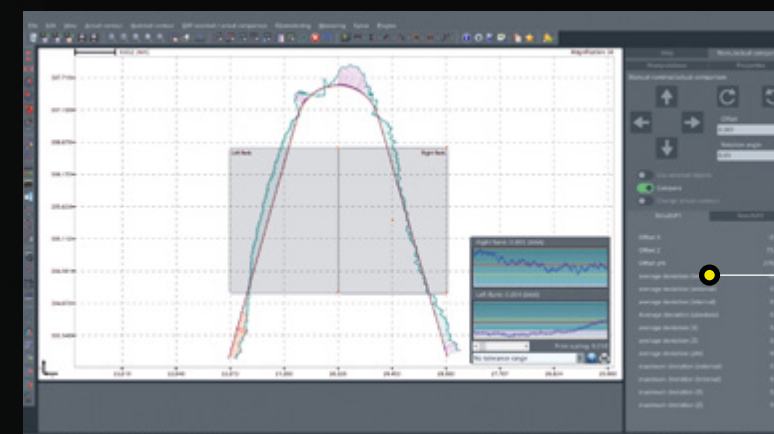
Photo-realistic input dialog »fored« of measuring program 312 for simple data creation



Fully automatic and time-saving measurement with transmitted and incident light image processing and measuring probe



Results display with extensive detailed information for each parameter and remeasurement function

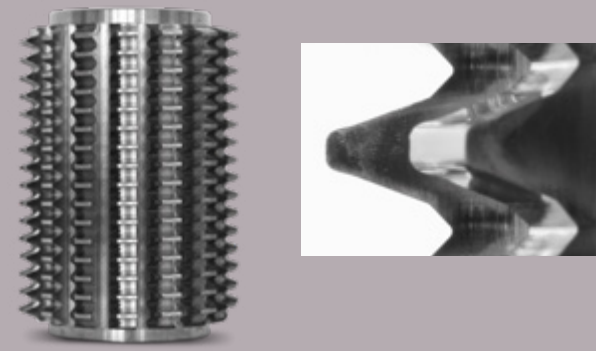


Graphic evaluation of the form deviation of the cutting edge

Inspection of Protuberance and Tooth Flanks

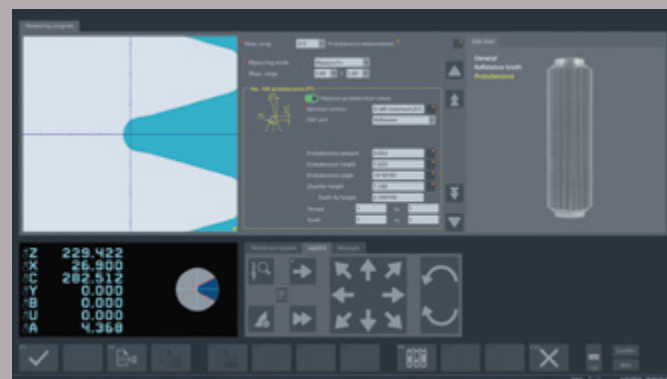
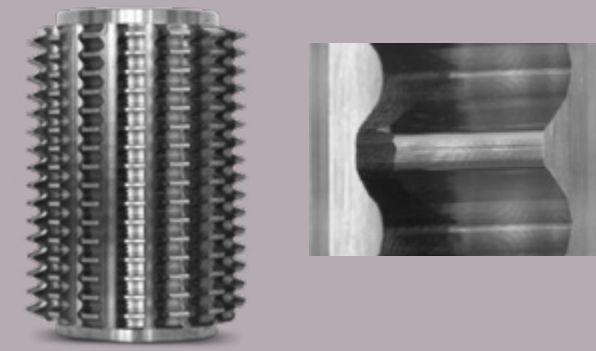
Measuring program 315

for measuring the protuberance on cylindrical hobs. The amount, height and angle of the protuberance and the edge breakage height on the left and right tooth flank are determined.



Measuring program 720

for measuring the axial relief on the tooth flanks of hob cutters. The exact contour of the relief is recorded and analyzed with the scanning measuring probe.



Measuring program 315 – Data creation in the photo-realistic input dialog »fored«.

Measure protocol 1 / 1

shdCheck: 6/5/2024
User: zoller 10:20 10AM

Identity number: Z311267
Designation: Wälzfäser Hartmetall Protuberanz

Normal module: 1.345400
Accuracy grade (DIN 3998): AAA/AAA
Number of turns / direction: 3 / Counterclockwise

Cutting groove number: 19
Hand of flute lead: Straight
Flute lead: 12.700000
Flute height: 4.760000
Flute angle: 47.900000

Tooth depth: 4.2700
Tooth root height: 1.8300
Addendum: 2.339750
Diameter (mm):
Diameter (max):

Tooth thickness (l):
Angle of action:
Rate: 15°49'50"
0°00'00"

| No. | Designation | Unit | Min. | Max. | Actual (from 1/1) | Min. | Max. | OK |
|-----|---------------------|----------|----------|----------|-------------------|----------|----------|----|
| 100 | Protuberance amount | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | ✓ |
| 101 | Protuberance height | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | ✓ |
| 102 | Protuberance angle | 0°00'00" | 0°00'00" | 0°00'00" | 0°00'00" | 0°00'00" | 0°00'00" | ✓ |
| 103 | Chamber height | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | ✓ |

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Representative inspection report – including parameter selection for internal and external use.

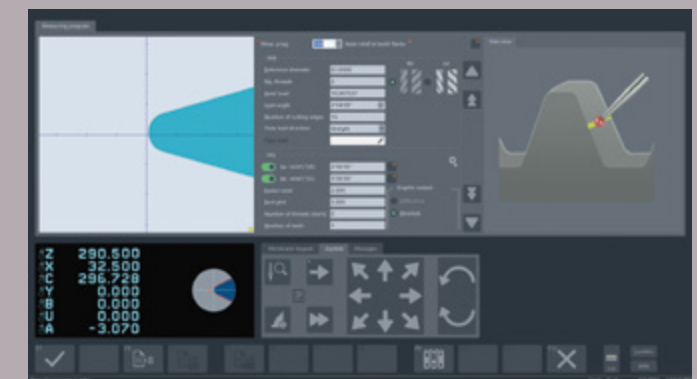
Measure protocol 1 / 3

shdCheck: 6/5/2024
User: zoller 4:52 48PM

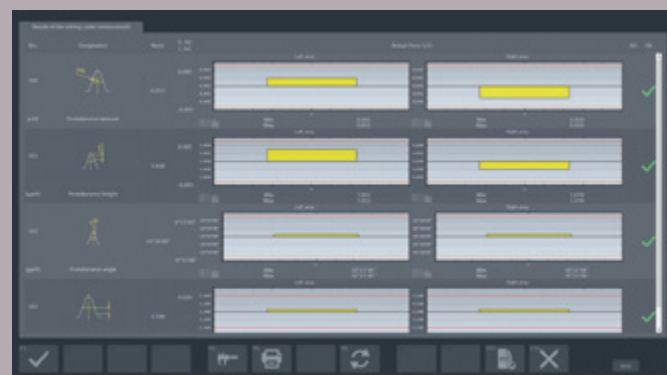
Identity number: Z311266
Designation: Carbide Hob Cutter with Shaft

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Report printout – of all measured axial relief grindings as a graphical progression and angle specification.



Measuring program 720 – Data creation in the photo-realistic input dialog »fored«.



Measuring program 315 – Results display with detailed information for each parameter and re-measurement function.

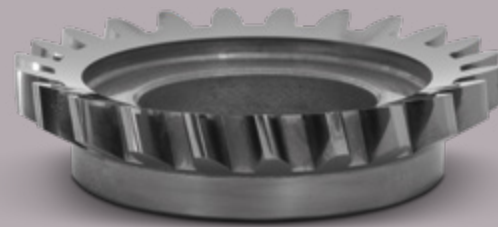


Measuring program 720 – Result display of all measured undercuts as measured values and graphics including zoom function for a detailed analysis.

Inspection of Pinion and Hob Cutting Wheels

Measuring program 412

for tactile measurement of cutting wheels with measuring probe and evaluation according to DIN 1829. Straight and helical cutting wheels can be measured. The axial run-out, rake angle at the tooth tip and the rake face pitch angle (for helical cutting wheels) are determined.

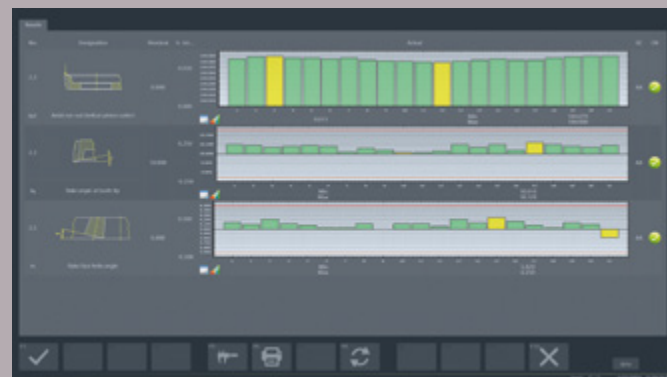


Measuring program 512

for the measurement of hob cutting wheels in transmitted and incident light with evaluation according to DIN 1829. Concentricity deviation on pitch and tip circle, individual pitch deviation left/right, pitch step left/right, total pitch deviation left/right, tooth thickness variation, rake angle on tooth tip and rake face pitch angle are determined.



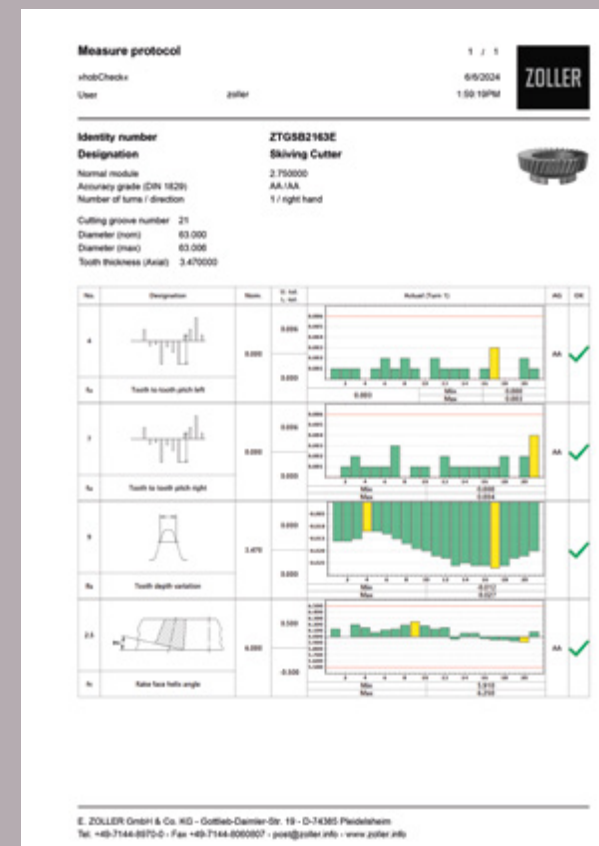
Measuring program 412 – Data creation in the photo-realistic input dialog »fored«.



Measuring program 412 – Results display with detailed information for each parameter and re-measurement function.



Representative inspection report – including parameter selection for internal and external use.



Representative inspection report – including parameter selection for internal and external use.



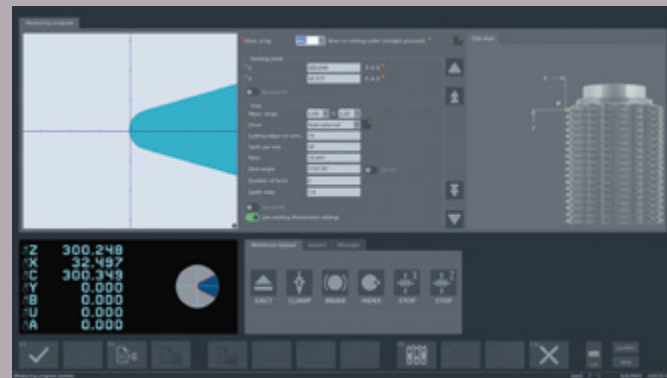
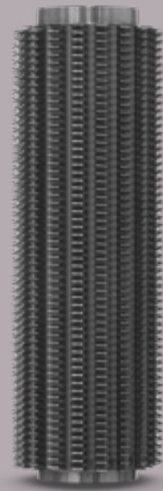
Measuring program 512 – Data creation in the photo-realistic input dialog »fored«.



Measuring program 512 – Results display with detailed information for each parameter and re-measurement function.

Precise Wear Control on Hob Cutters

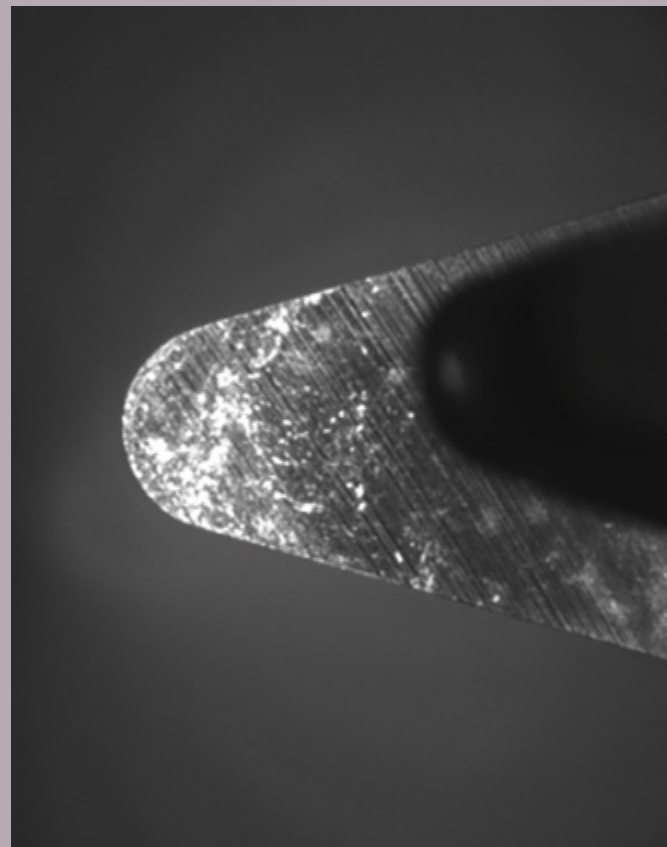
Measuring program 482 for automatic image acquisition of the teeth on circumference and in chip space of cylindrical hobs. Display of the cutting edge images including measuring function for simple, fast determination of the greatest wear. This enables the optimization of the resharpening process and ensures neither too much or too little resharpening.



Measuring program 482 – Data creation in the photo-realistic input dialog »fored«.

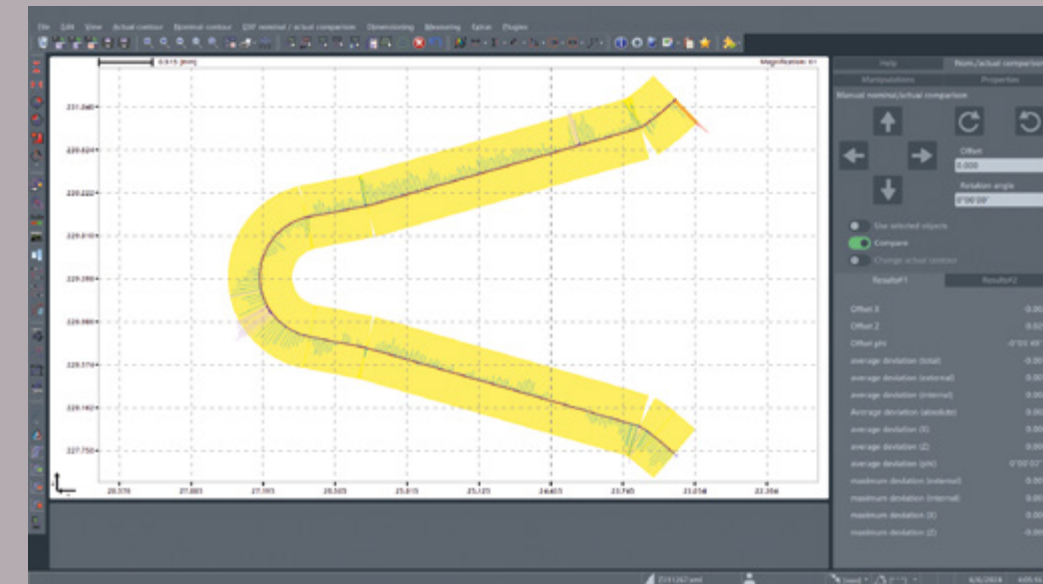


Measuring program 482 – Overview of the recorded cutting edge images including measuring function for determining wear.

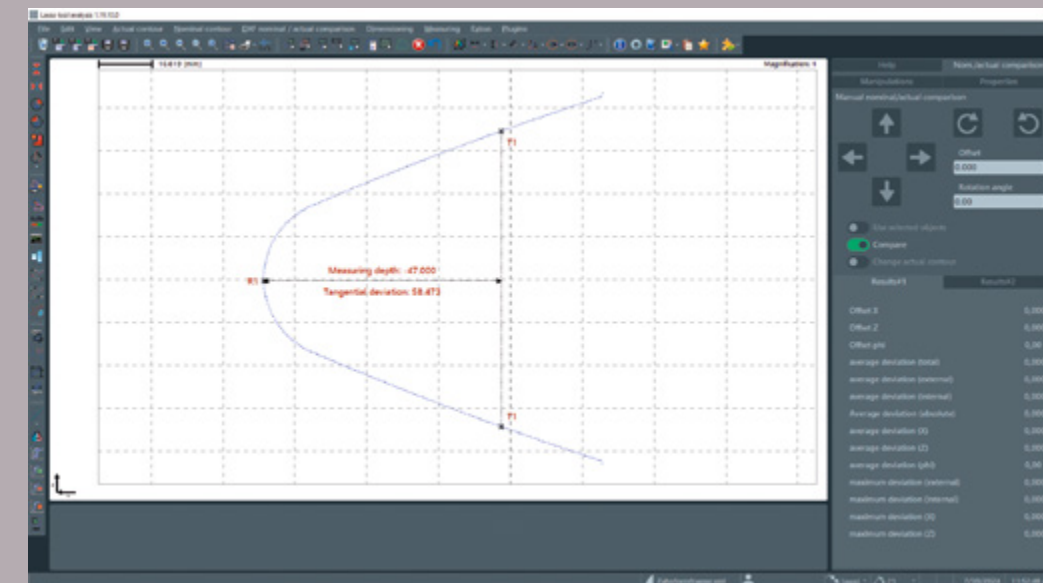


Cutting edge view chip space

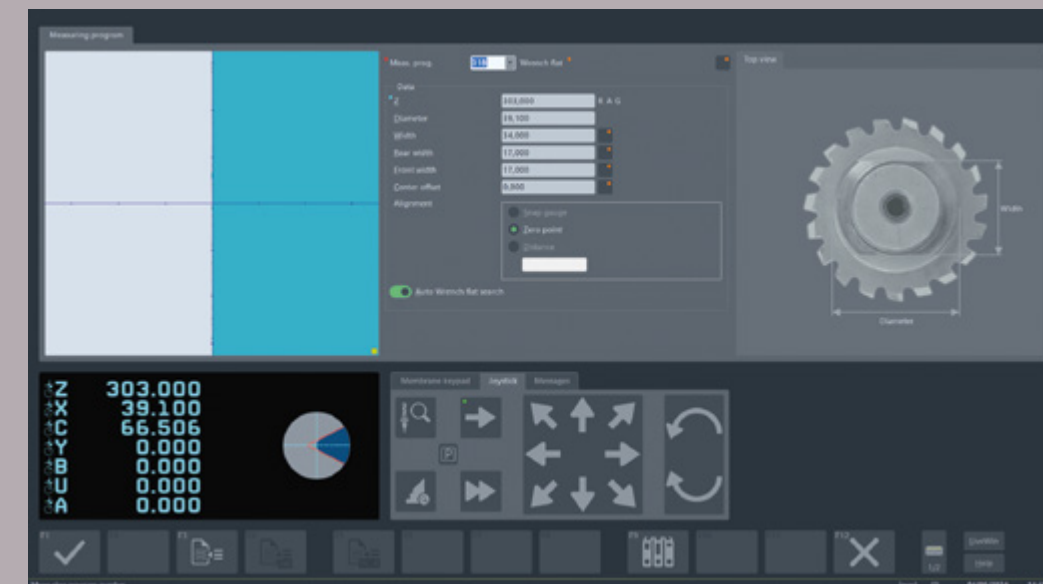
Further Software Functions for Hob Cutters:



Measuring program 80 – the contour measurement »lasso« enables the automatic nominal/actual comparison of the tooth contours using a DXF nominal contour.



»lasso« tooth form cutter plugin – for automatic determination of the tooth width with freely definable measuring depths starting from the tooth tip.



Measuring program 318 – for automatic measurement of the width and center offset of the wrench flat on hobs using the measuring probe.

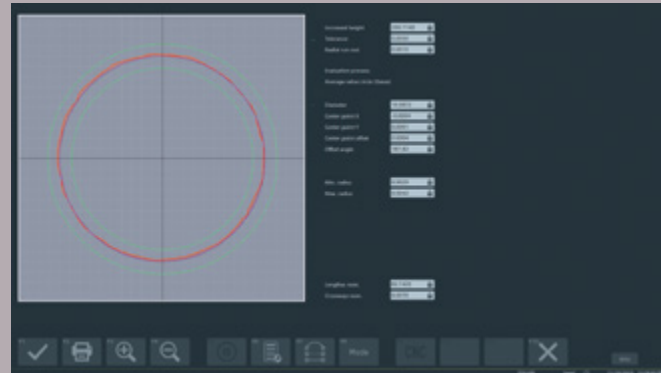
Solutions for Standard Tools

Further measuring programs at a glance:

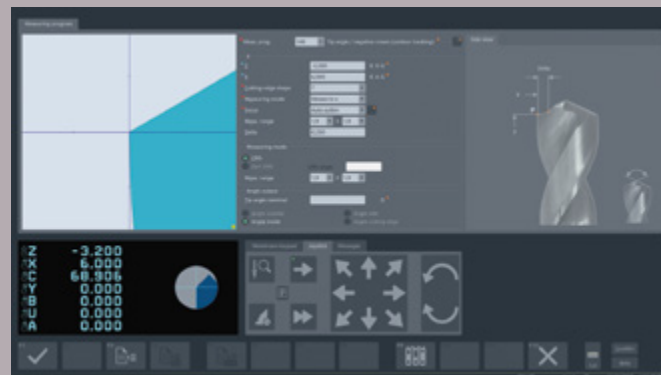
- »metis«-Interpreter
- PCD face and corner milling cutters
- Thread cutter (incident light)
- Thread cutter (transmitted light)
- PSC contour measurement
- Variable helix pitch
- Axial run-out
- Christmas tree cutter
- Concentricity thread
- Flank difference face
- HM deep hole drilling heads
- Skiving cutter
- Grinding wheels/packages
- Saw blades
- Cylindricity/taper
- Radius contour »contur« (sector)
- Radius contour end mills (sector)
- »apus«-Calculator
- Radius concentricity
- Roundness measurement

Further software functions at a glance:

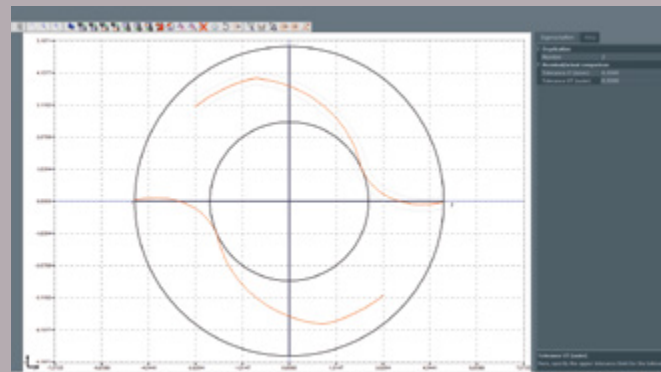
- Collective report
- Customer-specific test report
- File logging
- Concentricity and wobble compensation
- Cutter template package
- Drill template package
- Expert template KenTIP
- Cutting edge preparation »skp«
- Cutting edge symmetry and angle
- Symmetry drill head
- Reference tooth via helix angle
- Chisel edge length-face-1MF
- Cut-out length-face
- Corner radius step tools
- Contour correction »coCon«
- Macro editor »lasso«
- »metis«-Generator
- Microsoft SQL server database interface



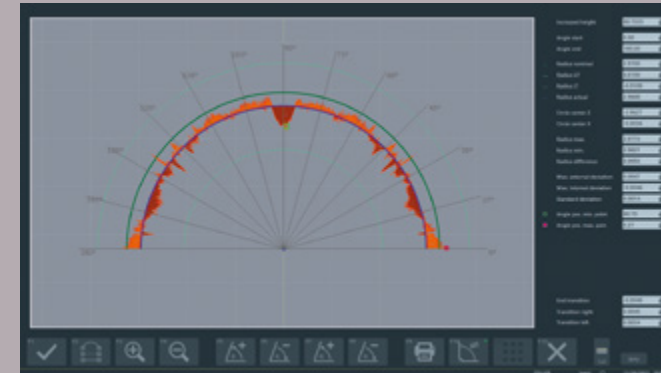
Concentricity check 360° – to automatically determine the radial run-out on circular surfaces (e.g. tool shank) and graphically evaluate the entire contour.



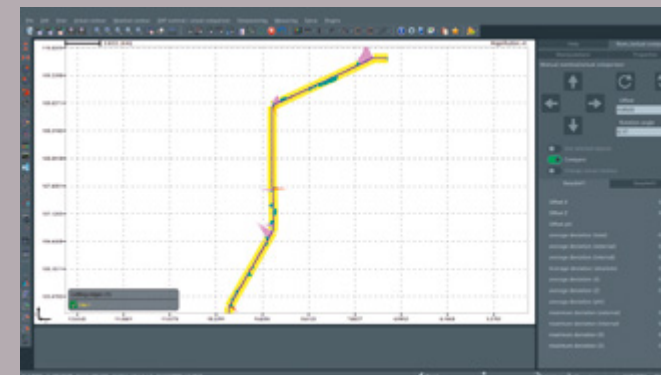
Point angle with hollow grinding – is determined on drilling tools and hollow-ground tool cutting edges from the starting point (outside diameter) to the tool tip or the defined end point by contour tracking.



Flute/chip space scan – automatically scans the flute/chip space contour without contact and displays it graphically.



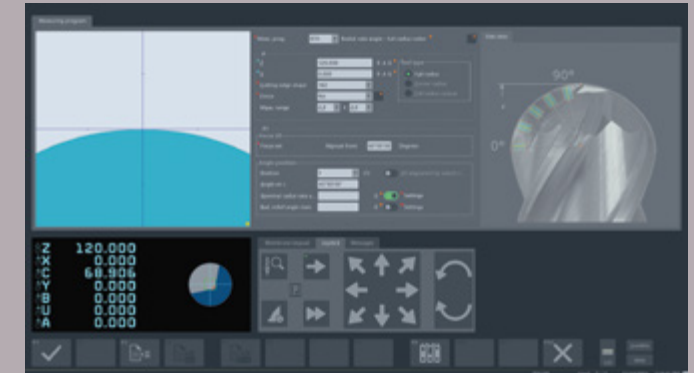
Radius contour »contur« with graphics – for automatic determination of concave and convex radii on the outer contour of tools including adjustable angle sectors with graphic evaluation.



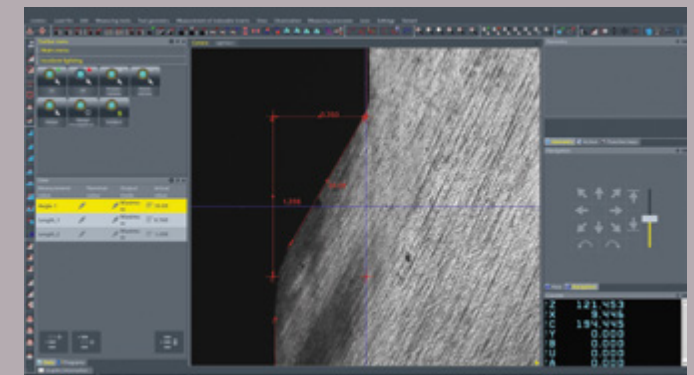
Contour measurement »lasso« – to scan any tool and workpiece contours and perform a nominal/actual comparison or dimensioning of the contour.



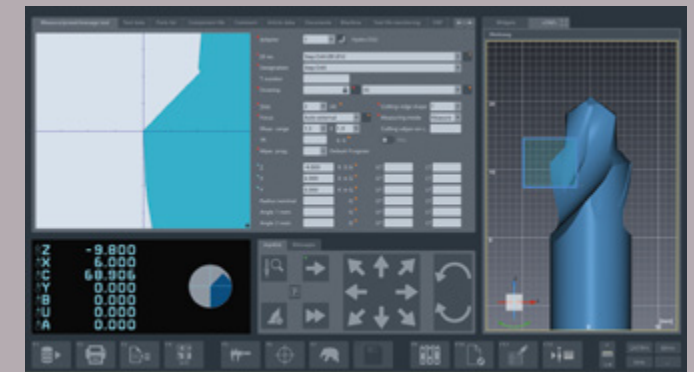
Editable inspection report »apus« – to display all measurement results including designations, nominal values, tolerances and much more in tabular form and flexibly in the layout.



Rake angle on radius cutters – determines the rake angle in the radius segment at the specified angles. Suitable for die, corner and full radius cutters.



Tool analysis »metis« – measures and documents any contours, radii, angles, distances and defects (wear) in incident light.



ZOLLER »caz« – the virtual measuring device for PC workstations for external creation of the inspection and measuring process including measuring programs, nominal values and tolerances using the 3D model of the tool before it is manufactured.

»elephant 2.0« – Extremely Easy to Operate

The »elephant 2.0« measuring program wizard enables simple, user-independent measurement and parameterization of standard tools without entering the target data. Using the graphical selection dialog, the desired tool category can be selected and a specific measurement task can be activated. Typical parameters are available depending on the selected tool type. The »elephant 2.0« software is based on innovative AI technology.

Advantages of ZOLLER »elephant 2.0«

- Execution of measurement sequences without special prior knowledge
- Simple selection dialog for defining standard tools
- Storage of measurement sequences in the database



Intelligent searches automatically determine the tool dimensions, including the number of cutting edges. The operator is graphically supported in positioning the cutting edge and measuring window. The tool measurement is then carried out fully automatically and the generated sequence can be saved for repeat measurements and supplemented as required, for example with tolerances.

01. Select tool type, e.g. end mill
> end mill with corner radius

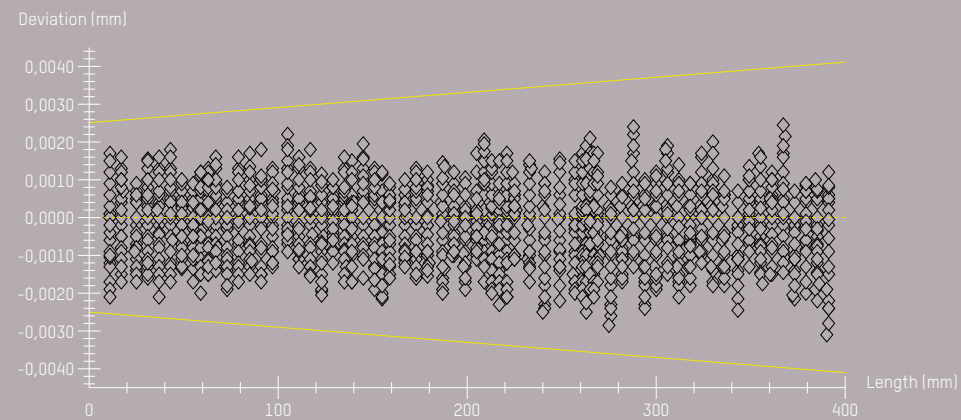
02. Select the desired parameters

03. Active measurement e.g. cutting contour corner radius

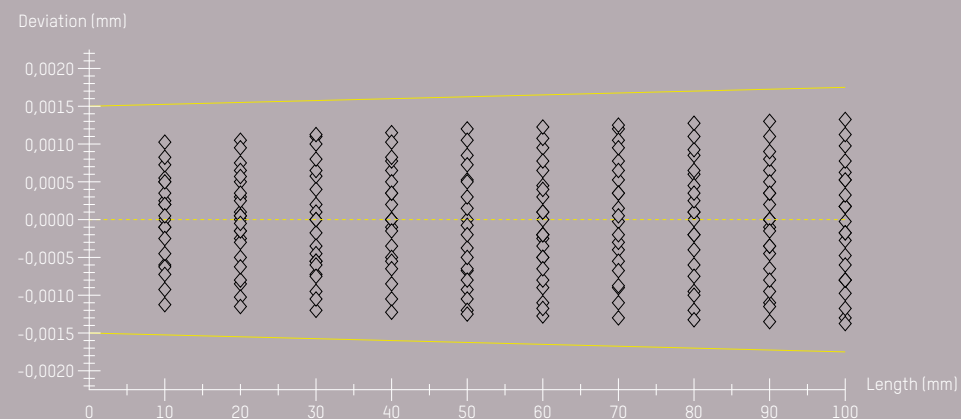
04. Measurement results (measured fully automatically and without data input/programming)

Two-Dimensional Guaranteed Quality

The demands in quality management are constantly increasing. That means you must be able to rely on the constant measuring deviations of your machines. In ZOLLER measuring machines, high-precision calibration standards made of Borofloatglas® are used to determine the length measurement deviations based on the DIN EN ISO 10360 standard. In accordance with this standard, at least three measuring sequences (25,326 relationships) are carried out. With this procedure, the accuracy of the ZOLLER measuring machines is documented in two dimensions and can be traced at any time.



Two-dimensional – based on DIN EN ISO 10360, $E_{xy} = 2.5 \mu\text{m} + (L/250 \text{ mm}) \mu\text{m}$

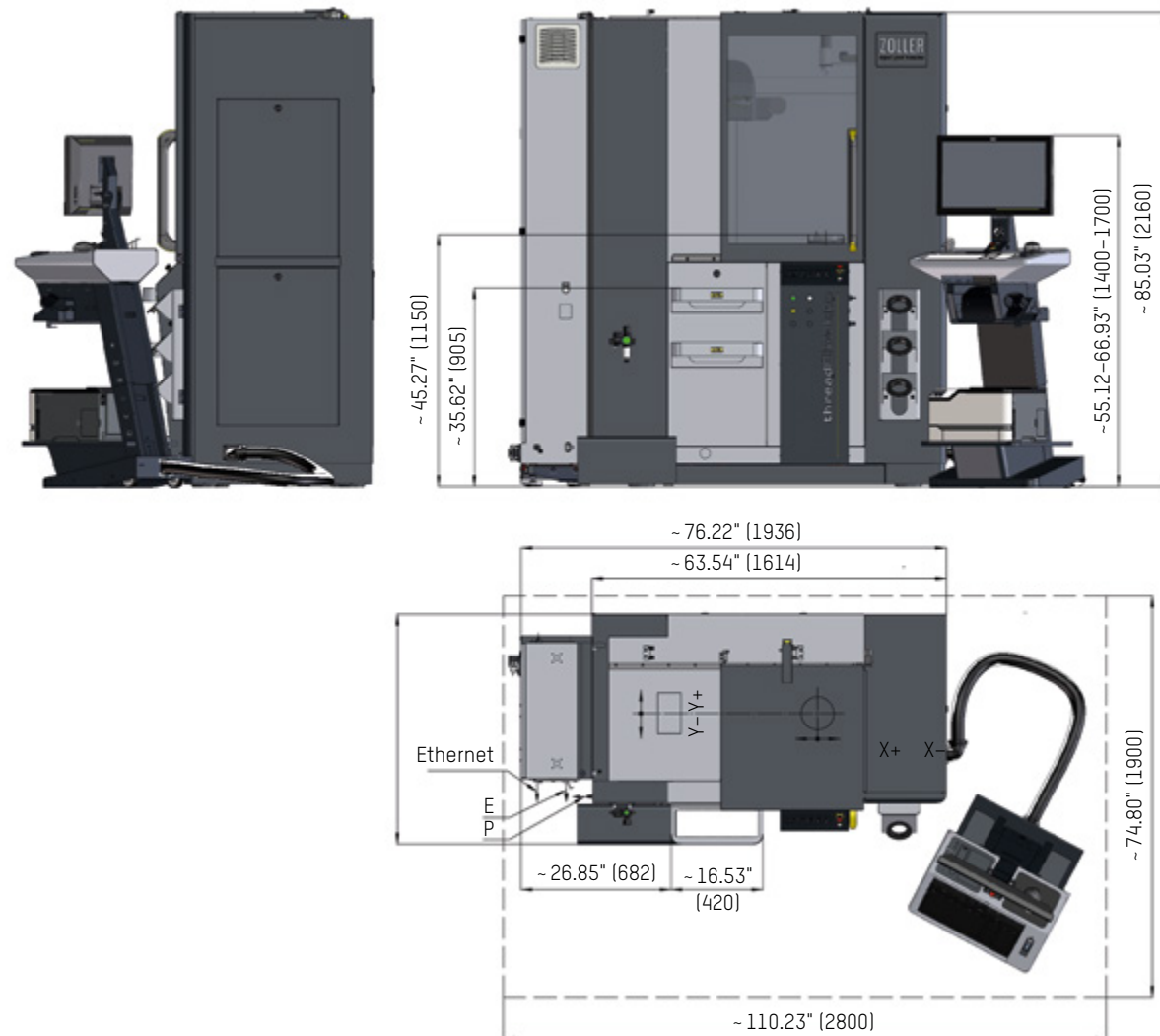


One-dimensional – according to VDI/VDE 2617, $E_x = 1.5 \mu\text{m} + (L/300 \text{ mm}) \mu\text{m}$



Installation Dimensions and Technical Data

| Technical data »threadCheck cc« | | | | | |
|-----------------------------------|-------------------------|-------------------------------|---------------------|----------------|-----------|
| Maximum tool length Z | Maximum tool diameter D | Maximum snap gauge diameter d | Travel range Y-axis | Number of axes | Weight |
| 23.62" (600 mm) | 16.54" (420 mm) | 3.94" (100 mm) | ± 1,9685" (50 mm) | 6-7 | ~ 1260 kg |



Note: P Air connection, ø 6 E Electrical connection Installation dimensions in inch (and in mm)

| Application | |
|--|---|
| 2D parameters incident light | |
| Diameter standard 0.08" - 3.94" (2-100 mm) | ● |
| Micro tools 0.004" - 0.39" (0.1-10 mm) | ⊙ |
| 3D parameters incident light | |
| Partial | ● |
| Surface-related | ● |
| Measuring tasks | |
| Threading tools | ● |
| Gear cutting tools | ⊙ |
| Sensors configuration | |
| Optics transmitted light | |
| Transmitted light camera HR70, BF approx. 0.15" x 0.14" (4.0 x 3.6 mm ²) | ● |
| Transmitted light camera 5 Mpx, BF approx. 0.17" x 0.15" (4.4 x 4.0 mm ²) | ⊙ |
| Transmitted light camera WF, BF approx. 0.61" x 0.55" (15.5 x 14.1 mm ²) | ⊙ |
| Optics incident light | |
| Incident light camera HR50 Standard, BF approx. 0.04" x 0.03" (1.1 x 1.0 mm ²) | ● |
| Incident light camera HR50 Micro, BF approx. 0.01" x 0.01" (0.4 x 0.4 mm ²) | ⊙ |
| Tactile | |
| Scanning measuring probe | ⊙ |
| Switching measuring probe | ⊙ |
| Tool identification | |
| RFID Manual »mslz« | ⊙ |

| Measuring machine configuration | |
|---|---|
| Spindle | |
| High-precision spindle »ace« | ● |
| Hollow encoder | ● |
| Linear drive | |
| ZOLLER power transmission | ● |
| X-, Y-, Z-axis in column design | ● |
| Optics drive | |
| Swivel axis incident light | ● |
| Swivel axis incident light & transmitted light | ● |
| Vibration damping | |
| Leveling element on machine feet | ● |
| Active integrated vibration decoupling | ⊙ |
| Accuracy | |
| $E_{xy} = 2.5 \mu\text{m} + (L/250 \text{ mm}) \mu\text{m}$ | ● |
| $E_x = 1.5 \mu\text{m} + (L/300 \text{ mm}) \mu\text{m}$ | ● |

● Base model
⊙ Optional

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