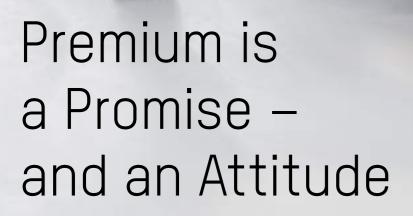


The Premium System for Professional Tool Presetting and Measuring

venturion





Choosing »venturion« from ZOLLER means having all the benefits of a premium presetting and measuring machine on your side every day.

Measure complex tools with the highest precision, down to the $\mu m.$ Benefit from the flexibility of a modular system that adapts ideally to your processes. Networked production, digital tool management, data exchange with external systems – enter the production world of the future. Because we understand the future is a long-term project, a »venturion« is built so robustly that it will accompany you for a very long time.

With »venturion«, you're prepared for the highest demands when measuring and presetting tools.

>>venturion«



Elegant and Strong

The best teammate you can have: the premium presetting and measuring machine »venturion«. The robust body consists of a light alloy specially developed for measuring machines. Made from exclusively high quality brand-name components with exceptional craftsmanship, nothing can compare to »venturion«.

These precision machines can be used in any configuration and with any of the optional extensions – even the highest workload can be handled with ease. Its robust design makes »venturion« equally suited for a climate-controlled room or in the production hall right next to the CNC machine.



»venturion 450«



Technical Data: »venturion«

	Maximum tool length Z	Measuring range X axis	Maximum tool diameter D	Maximum snap gauge diameter D
»venturion 450«	450 / 620 / 820 mm	210 / 310 mm	420 / 620 mm	100 mm
»venturion 600«	600/800/1000/1200 mm	300 / 400 mm	600 / 800 mm	200 / 100 mm
»venturion 800«	600 / 800 / 1000 / 1200 / 1400 / 1600 mm	500 / 600 / 700 mm	1000 / 1200 / 1400 mm	200 / 0 mm

Maximum Process Reliability

Processes must be as precise and reliable as the measurements on which they are based. In a »venturion«, electronics, mechanical components and the ZOLLER »pilot« image processing software automatically work closely together to rule out measurement and data transfer errors. This guarantees maximum process reliability.

Automatic Zero Point Monitoring: Prevents Machine Crashes -

The software function Automatic Zero Point Monitoring in the "pilot" image processing software and the high-precision spindle "ace" work together to ensure that the zero point is automatically selected after the tool holder adapter is changed. For more machine safety.

Automatic Production Data Acquisition: Quick System Check – The software module »fingerprint« in »pilot« continuously checks at defined intervals whether all system components are functioning. The software detects errors before they occur and guarantees that your »venturion« presetting and measuring machine runs and runs – smoothly.

Statistics provide information on how often and by whom measurements are carried out on your machine. This data can be used to optimise processes, planning and machine utilisation.

Automatic Data Transfer: Error-free and Process-reliable — The best way to continue working without manual data entry is to ensure all actual tool data is correct and readily available. »venturion« can be integrated into your network and, if desired, transmits all relevant data to your CNC machines in a control-specific manner.









CHRISTIAN HANTKE, part of the ZOLLER assembly team

For Quality I Give Everything – Every Day

Maybe you already know me. Just have a look at the seal of approval of your ZOLLER machine. Because every ZOLLER employee who assembles a machine is listed there with his picture and his name. We do this because we rely on the quality of our work. We know what quality means, how to ensure quality and what quality is all about. For example, using the best components. And about love of detail. And about experience. You can rely on all this at ZOLLER. Because it is important to us.

Highest Quality for Long-lasting Precision

ZOLLER consistently focuses on quality: Thanks to high quality brand-name components and process-reliable assembly. You can rely on a long service life of your ZOLLER machine and the highest long-term precision.



»venturion« TÜV approved

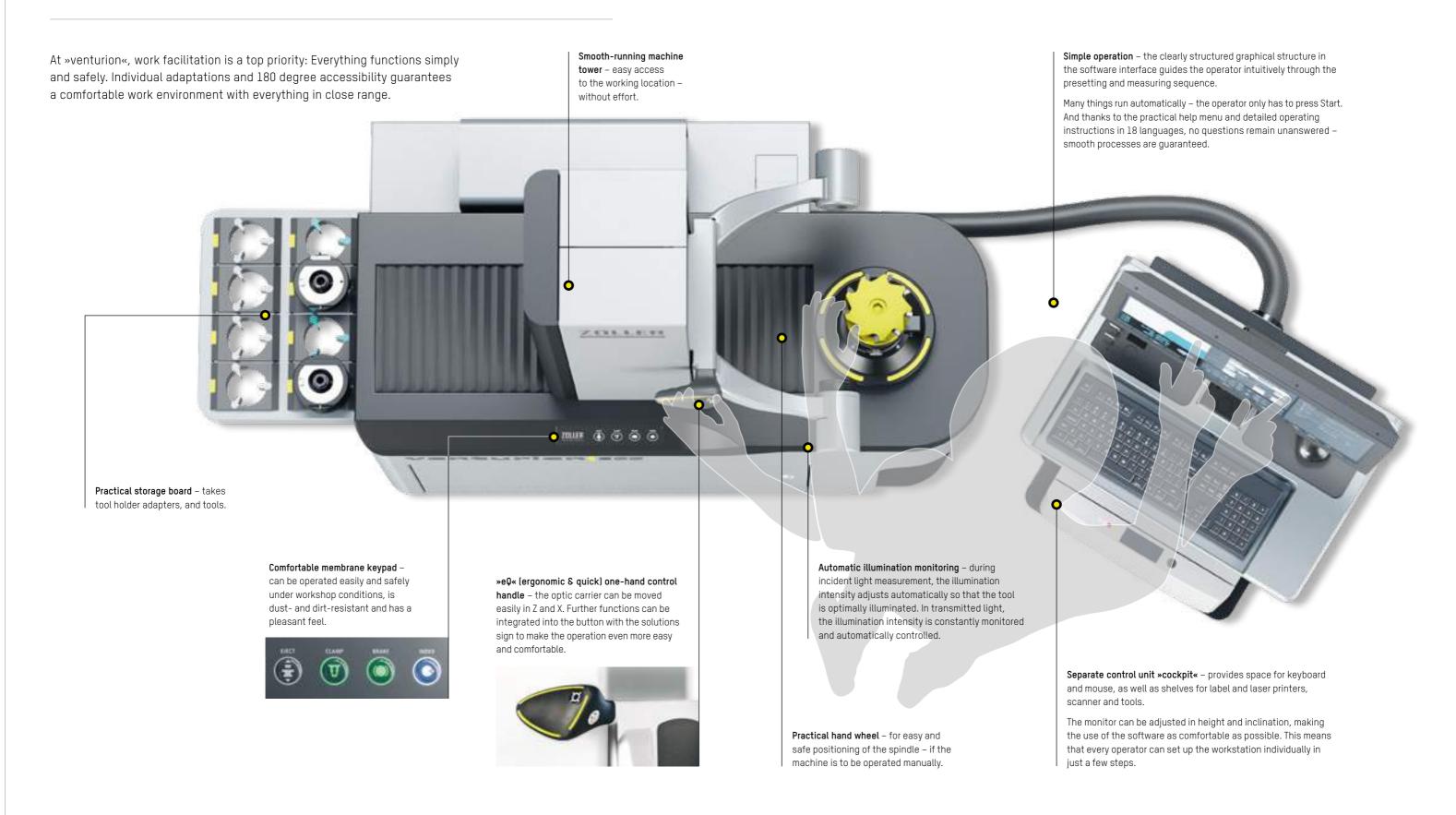
The »venturion« system is certified according to international IEC/EN 61010-1 and cNRTLus standard.

Proven and certified safety of the product.



space laid out for good accessibility and optimal ventilation.

Maximum Ergonomics for Better Working Results



High-precision Spindle »ace«

The ball bearing cage in the spindle takes any tool holder adapter clearance-free and without conversion measures. The corresponding tool holders can be inserted into these and clamped power-operated - analogous to the machine tool.



Further highlights of the ZOLLER »ace« high-precision spindle:

- Power-activated tool clamp consistent independent of the individual user.
- Spindle brake for pneumatic positioning of the spindle in the desired position over the entire 360°, for example to set the tool.
- Spindle indexing for defined fixing of the tool position in $4 \times 90^{\circ}$, for example, for the position indexed holding of turning tools.
- Tool holder adapter with integrated calibration spheres – for simple, fast and exact determination of the spindle zero point.
- Fast tool holder adapter changeover in a maximum of 10 seconds.
- High changeover accuracy of tool adapter holder better than 1 µm.
- High axial and radial runout accuracy better than 2 µm as a result of clamped tool adapter holders.

Options: Can be extended with autofocus, rotation encoder (ROD) and length adjustment system if required. All »venturion« models are also available with SK 50 spindle. Reinforced spindles for very heavy tools are available as an option.

Always the right tool adapter holder



Steep taper SK 25 to SK 60



Polygonal shank coupling PSC 32 to PSC 100



Hollow taper shank HSK 25 to HSK 160



Kennametal KM 32 to KM 100



Cylinder shank VDI 16 to VDI 60



Hydro expansion cylinder shank D 32 mm with change bushes D 3 to D 25 mm

Power-clamping

Spindle indexing





Membrane keypad for controlling pneumatic functions

»pilot« is Always on Course for Success

»pilot« is the comprehensive software solution for all ZOLLER presetting and measuring machines. The intuitive graphical user guidance guides the user quickly and reliably to the precise measuring result. This makes »pilot« so easy to operate that even complex measuring tasks can be performed right away.

At the same time, the software is so comprehensive in its functionality that there is a solution for every requirement. It is not for nothing that »pilot« is regarded as the benchmark for tool presetting, measuring and inspecting that is unequalled anywhere in the world.



Correct Measurement Sequences with »fored«

Unrivaled in its simplicity: The photo-realistic input dialog "fored" guides every operator safely through the parameter input of measuring programs. The required parameters are highlighted in the input mask. At the same time, the photo-realistic image highlights the corresponding point. This prevents errors when entering parameters.

P

P2



Analyzing the radius contour of full radius milling cutters in adjustable angular increments. (measuring program 137)

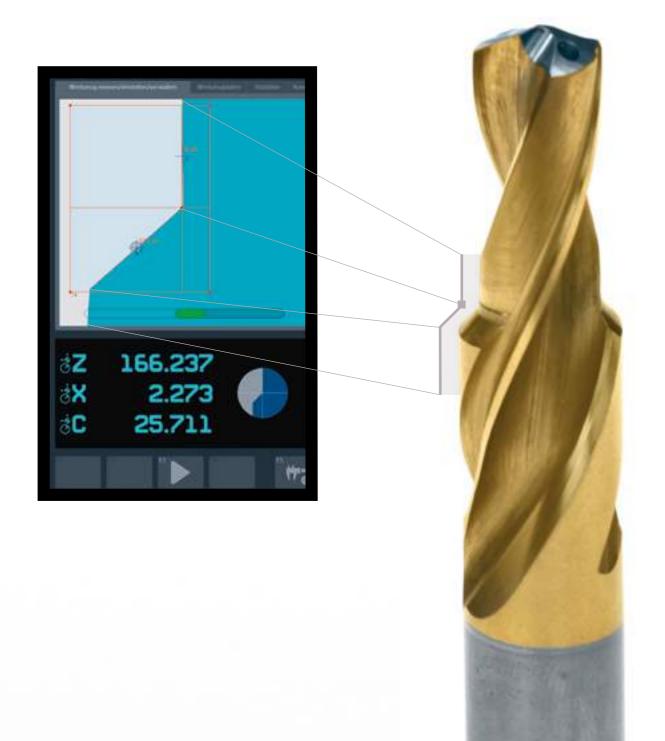
Adjustment and measurement of drills in angle heads. (measuring program 106)

Measurement of single cutting reamers with support bar

in the snap gauge principle.
(measuring program 1)

Perfect Measurement without Specifications

The »venturion« standard is absolutely simple: You insert the tool and move the camera to the desired measuring position. A »venturion« does not need any more information. For example, it recognizes automatically the cutting edge shape, the measuring range and the steps of each tool.



1, 2, 3, Finished - That's How Intuitive Measuring is with »elephant«

With the software module »elephant« every employee can really measure standard tools – without previous training. All that needs to be done is to select the tool and the measuring task – the measuring takes place fully automatically. It could not be simpler.



Insert and clamp the tool – and start »elephant« – via the main menu or the lower menu bar.

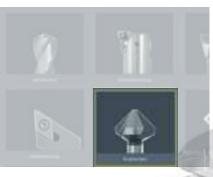


Select tool category – based on the graphical representation.



Select measurement task and measurement mode – based on the determining parameters. The measurement starts without any programming effort.









Measurement results – are displayed and archived on the screen. The output follows in the editable »apus« inspection report.



Manufacture Economically

Measuring at the touch of a button: A »venturion« with CNC axes and autofocus can measure any tool fully automatically – reproducibly and independently of the operator.

After inserting the tool, the operator starts the measuring process at the touch of a button. The exact measured values are available after a minimum measuring period – and your tools produce good parts in the machine from the outset. Lot size 1 is therefore also economical.

CNC control of the Z, X and C axes – for automatic movement of the axes and exact position determination.

»venturion« TÜV approved The »venturion« system is certified according to international IEC/EN 61010-1 and cNRTLus standard. Proven and certified safety of the product. Exact autofocus the spindle automatically rotates precisely to the focus point of the camera. ZOLLER O O O O eneunion 15016

Shrink in Exact Length with »redomatic«

»redomatic 600« is the high-end solution for automated measuring, presetting and shrinking. With it you can shrink tools with a precision of better than 10 µm to the exact length. With this device you increase the efficiency in the preparation of single and multi-spindle tools and protect your shrink holders. In addition, you have all the possibilities offered by a »venturion« for measuring and presetting tools.





Flue gas suction for high work safety
The flue gas suction device reliably removes flue
gases from the working area.



Best operator guidance with »sls«
The shrink control system »sls« eliminates process errors as far as possible by guiding through all steps and displaying the required components.

Mounting Polygon Holders with »tribos«

With »tribos 600« you assemble and measure the length of the SCHUNK TRIBOS type polygonal shrink holders µm-accurately. The machine positions the TRIBOS clamping unit, controls the TRIBOS pressure control and the search run for aligning the SCHUNK clamping surfaces. Everything automatically. Everything precise. Everything perfectly controlled.





Fully automated with »tribos«

The SCHUNK TRIBOS clamping unit is automatically positioned to the clamping position and returned to the starting position at the end of the clamping/unclamping process.



Securely supported by »pilot«

The optimum interaction between the "pilot" image processing software and the control of the TRIBOS clamping unit from Schunk ensures that the tool length can be set μ m-accurately.

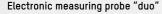
Presetting and Measuring with »reamCheck«

With »reamCheck« you can set complete processing tools such as reamers and precision drills fully automatically, quickly, with repeat accuracy and independent of the operator. The integrated control measurement offers you the desired safety.

The tailstock can be easily lowered with the aid of the operating handle and holds long, slim tools in exact position with a defined contact force.

Thanks to the outstanding ZOLLER technology, you can carry out all steps with ease and absolute process reliability. Whether you prefer to use a tactile measuring method for the presetting process or the proven ZOLLER image processing technology, "pilot" is your choice. One thing is for sure: It could not be better!





For simultaneous presetting and measuring of diameters and tapers of e.g. reamers in oversize principle. The probes are magnetic and can be mounted as required.



Automatic with CNC control

Fast and CNC controlled axial run-out or radial runout measurement on cutter heads or CAP cutters.

Measuring program selection

Extensive measuring program selection in »pilot« with photo-realistic input dialog for simple operation and reliable nominal dimension specification.



Tactile presetting of tool cutting edges

With the aid of an analogue dial gauge, tool cutting edges on reamers as well as on face cutter heads can be adjusted in "pilot" tactile μ m-accurate.



Photorealistic measuring programs for reamers

Irrespective of the reamer to be measured and the desired measuring method, the user can select the appropriate measuring program from a library.



Tactile CNC controlled measurement

With the aid of a double probe, two measuring points on the tool cutting edge can be approached simultaneously and both cutting point and taper can be set.



Comprehensive Control with »smartCheck«

In addition to the geometric data of the tools, which are purely relevant for production, the quality of the cutting edge is also important. The »smartCheck« presetting, measuring, and inspection machine can visualize the surface quality of the cutting edge on the face and circumference by control in transmitted and incident light. With the help of the tool analysis software »metis« the generated images can be evaluated and analyzed.



Presetting, measuring, and inspection machine »smartCheck«

Presetting, measuring, and inspection machine »smartCheck«

With the help of the swivelling incident light camera, additional tool parameters, geometric data and cutting edge contours can be recorded both radially and axially.

The cutting edge is optimally illuminated by the LED ring light with adjustable light intensity, so that the tool contours are displayed brilliantly.





Face of the tool in the »metis« tool analysis software

Cutting edge inspection

Each presetting and measuring machine has the cutting edge inspection function. This allows a tool cutting edge to be inspected and evaluated qualitatively. The movable crosshairs, the dimmable incident light and the freely on the monitor image placeable radius make the analysis particularly easy. For complete documentation, images can be saved at any time during the cutting edge inspection.



Cutting edge inspection

Center height measuring device

For turning tools, the radial position of the tool cutting edge (centre height) is the essential parameter for exact turned part production. This center height can be determined on a vertical measuring machine with the aid of the horizontally aligned turning center measuring camera.



Center height measuring camera on optics carrier with LED ring light

Fully Automatic Clamping with »torquematic«

The »torquematic« presetting and measuring machine from ZOLLER allows tools with collet holders to be set fully automatically, without muscle power, to length, clamped to a predefined torque and measured. The automatic torquing station clamps tools without any effort. Your employees will be thrilled!





Clamping tools securely

The clamping nut is tightened in the screw station by rotation of the high-precision spindle »ace« with dual drive according to a predefined torque and the tool is clamped.



Quick change system »adaptYourHolder«

Using the »adaptYourHolder« quick-change system »torquematic« adapts to the shapes of the union nuts of your clamping systems.

Tool Assembly Made Easy with »screwmatic«

Many tool holders for cylindrical shank tools with Weldon surface or hydraulic holders have a horizontally arranged clamping screw. Using three CNC controlled linear axes, the »screwmatic« screw station can move to any horizontal screw position with µm accuracy. A torque-controlled screw axis carries out the screwdriving process precisely.





Cleverly screwed in

With horizontally arranged clamping screws, the screwing in and unscrewing is automated and the defined torque of the tool systems is set and monitored



All fully automatic

The complete tool is inserted into the presetting and measuring machine and the screw-in position is approached automatically. The screw is tightened or loosened under torque control.

Options

Manual fine adjustment

Handwheels for additional manual fine adjustment of the Z and X axis especially for the tool inspection module.



Measuring probe

For tactile measurement of tool cutting edges.



CNC swivel device

For distortion-free measurement of inclined tools such as threading tools and hobs.



»asza« length setting system

CNC controlled linear adjusting equipment for adjusting tools to length using a limit pin. Alternatively available as "asza-rot", with which tool length can be optionally set via the automatic rotation of the length adjusting screw (does not apply for shrink-clamping holders).



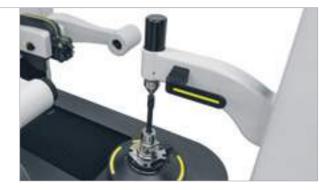
Y axis at the tower

Thanks to the additional Y axis, the optic carrier can be positioned up to \pm 50 mm from the spindle center in Y-direction under CNC control. In combination with the turning center measuring camera, turning tools and multifunction tools can be measured efficiently and with high precision and adjusted to center height.



Tailstock version »phoenix 600«

The tailstock can be easily lowered and holds long, slim tools with a defined contact force in exact position. In addition to tools, components can also be measured between centers.



Identify Tools Uniquely

If machines receive the wrong tool data or are equipped with the wrong tool, this can have serious consequences. In the worst case, this can lead to an expensive machine crash. Therefore, tools must be clearly identified before use. ZOLLER has the right solution for all company sizes. Systematic tool management will increase your productivity, protect your machines from crashes and keep an eye on your inventory at all times.

Identification by Code

Barcodes, DataMatrix codes and QR-codes can be generated using the »pilot« image processing software and printed on a label. In addition, DataMatrix codes can be lasered onto the tool holders or fixed securely onto the on the tool holder by the resin-coated »idLabel«. On demand we deliver all tool holders with permanently integrated ZOLLER »idChip«. With the ZOLLER »idChip« technology you can rely on maximum product lifetime and get the perfect interface for your digital manufacturing. As soon as the tool is recognized at the CNC machine, the data can be retrieved from the database via the communication platform »zidCode« or transferred to the machine control system via the host computer system.

Scan Codes Automatically

The camera »autoIDscan« scans all codes automatically, directly on the ZOLLER presetting and measuring machine.



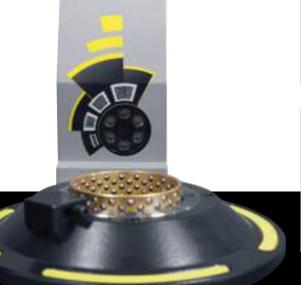












Data Transmission – Safe, Easy, Fast

Tool data can only effectively support production if it can be transferred at different points in the manufacturing process. ZOLLER offers you several options for this - depending on how large your production is, how comprehensively you want to use your tool data and how you want to organize the data transfer.

Actual Tool Data - Ready for Take-Off

Plain text on a label

The most cost-effective option is to print tool data in plain text on a label and attach the label to the tool. The data is then entered manually on the CNC machine. There are 10 layout variants available for designing the label.

Transfer data with the ZOLLER communication platform »zidCode«

With the ZOLLER communication platform "zidCode" you can play it safe. You print your tool ID number as an encrypted DataMatrix code on an "idLabel" and attach the label to the tool holder. Or you use tool holders with ZOLLER "idChip", so you can identify your tool holders at any time clearly in your digital manufacturing process.

Postprocessing data

With the aid of postprocessors, you can prepare tool data in controller format and ensure transfer to the machine. This means that you have fulfilled all requirements for direct control of the machine.

Data transfer via RFID chip

A special identification unit on the presetting and measuring machine transmits the tool data and other control-relevant information by radio to an RFID chip. This is done either automatically, manually or via a hand-held reader.

Successful Arrival - Machine Produces

Typing on the machine

The operator reads the tool data from the label and types it in manually on the machine. To make it easy for the operator to identify the tools, additional tool images are displayed on the set up sheet.

Scan and go

The tool is identified by scanning the "idLabel" or the ZOLLER "idChip" on the machine. The associated tool data is either requested from the z.One database or transferred to the "zidCode" control. There they are processed and then read in by the machine control. Input errors are thus a thing of the past.

Transferred directly to the machine

The data prepared in controller format by postprocessor can be transferred directly to the machine via the network, USB stick or RS232 interface.

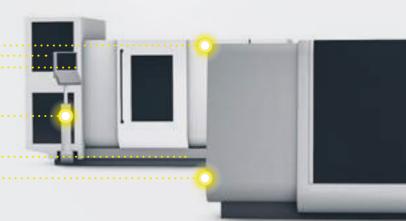
Tool sends dat

At the machine, the data from the chip is automatically read in by radio. For absolutely safe data transfer.



Z 115.839 X 13.193





ZOLLER Solutions for Data Transfer

Label printer

For printing the measurement results or DataMatrix codes on adhesive paper or thermal labels.



»zidCode«

With the communication platform "zidCode" you benefit from correct and complete tool data, which can be transferred to your machines quickly, paperlessly and therefore guaranteed without typing errors.



Data transmission in controller format via postprocessor

Data transfer from the presetting and measuring machine »venturion« directly to the CNC machine, quickly and easily at the touch of a button.



Hand-held scanner

For reading tool data from codes like the DataMatrix code on the ZOLLER »idChip« for unique identification.



Automatic RFID read/write station

For automatic writing of measurement and presetting data as well as additional information in controller format on an RFID chip and for reading out these data records.



Manual RFID read/write station »mslz« – hand-held device

For manual reading/writing of the code carrier on the tool via a hand-held reader.



Manual RFID read/write station »msle«

For manual reading and writing of the RFID chip in the head bolt or on the driving groove. For free mounting on the »venturion« or separately on a workbench.



Automatic camera »autoIDscan«

Special camera system used to read even large DataMatrix codes with an edge length greater than 5 mm.



»roboBox« Automation System

If you use multiple shrink-clamping tools each day, you will benefit immediately from the »roboBox«. With up to six modules, you can individually expand the »roboBox« to create a fully automatic system for fitting, measuring and cooling tools. Your advantages: high throughput, high precision, high tool availability.

»roboBox« can handle all shrink-clamping processes independently with just the combination of the three measuring, shrink-clamping, and cooling modules. Work with tools shrink-clamped to a precise length and exactly measured in fully automatic series production. Unclamp tools quickly that have reached the end of their tool life or that are defective. ZOLLER »roboBox« can be easily integrated into any production and put into operation quickly.



ZOLLER »roboBox« automation system

»roboBox« - Interfaces



In- and output

Regardless of how you infeed and remove your tools, the lock system can always be adjusted to your logistics process: whether manually, using a tool cart or via a transport system.



Identification

Tools can be identified optionally with a DataMatrix code or using another tool identification system via RFID Chip.

»roboBox« - Assembly processes



Heat shrinking

The induction coil lowers automatically over the tool holder and heats it. The shank tool is inserted precisely positioned and then cooled contour-independently in a cooling module, which has capacity to hold up to eight complete tools. This accelerates the cycle time.



Screw fitting collet holders

Matching adapters can be used to automatically clamp the clamping nuts to a defined torque in collet holders. Switching between clamping adapters is also automatic. Adapters are available for nuts in cylindrical, hexagonal, and fluted versions.



Screw fitting clamping screws

Screws are clamped and released automatically for horizontally arranged clamping screws, like those used on cylinder shank tools with Weldon areas or hydroexpansion holders. At the same time, the defined torque for the tooling systems is set and monitored.



powRgrip® presses

The tool with matching collet holder and REGO-FIX powRgrip® collet holder is infed and pressed automatically.

»roboBox« -Measurement processes



Tool geometries

After the automatic assembly process, tool geometries such as diameter, length, cutting edge radius, cutting angle and concentricity and axial run-out can be measured in automatic measurement sequences. In addition to automatic mode, manual measurements can also be carried out in the module, during which automatic operation in the »roboBox« is not interrupted.



Balancing quality

The balancing module is insulated with the highly precise measurement unit and integrated into the »roboBox« so as to neutralize vibrations. After the measurement process, the balancing quality can be transferred to the CNC machine control as a measuring parameter.

Impressively Versatile

If you decide on a »venturion« from ZOLLER, all possibilities are open to you. You will find a cosmos of first-class solutions. We will be happy to advise you on the perfect configuration of your »venturion«.

	Axes					Operating software				Software functions			Data management						
Technical data	CNC control	Manual axes positioning	Manual fine adjustment	Third axis with rotation encoder	Additional Y axis at the tower	»pilot 1« on 24" monitor	»pilot 2 mT«	»pilot 4.0«	17" TFT colour display »satellit« as second monitor	Autofocus	Automatic tool holder adapter recognition and zero point monitoring	Tool tension monitoring	Data transfer via postprocessor	Tool identification »mslz«	Read/write station »msle«	Automatic tool identification	»zidCode« with labels	DataMatrix identification automatic camera	DataMatrix identification hand-held reader
»venturion 450«	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
»venturion 600«	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
»venturion 800«	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
»redomatic«	•	•	-	•	_	-	_	•	•	•	•	•	•	•	•	•	•	•	•
»tribos«	•	•	_	•	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
»reamCheck«	•	•	-	•	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
»smartCheck«	•	•	•	•	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
»torquematic«	•	•	-	•	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
»screwmatic«	•	•	•	•	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
»roboBox«	•	_	_	•	-	-	_	•	_	•	-	•	•	•	-	-	•	•	•

- Base modeloptionalnot possible
- Table reinfor up to 60 kg • 0 • • • • • 0 • 0 • 0 • • • 0 • 0 • • • • • 0 \odot • \odot • • • • • \odot • 0 • • • • \odot • • • \odot • • • • • • • • \odot \odot \odot 0 0 • 0 • \odot • 0 • • • • • • 0 0 • \odot \odot • • \odot 0 • \odot • 0 0 • • • • • • • 0 0 • • • • •

We Stand for ZOLLER Solutions

Your goal is maximum efficiency for your production. Our goal is to support you with well-designed system solutions. To help achieve this goal, we also offer comprehensive service. Whether through personal consultation on site or by developing perfectly tailored solutions for individual requirements – if you choose ZOLLER, you will not only receive excellent products, but also unique production know-how on your side. And of course, competent contact partners to answer questions at any time – over the entire life cycle of the ZOLLER products.

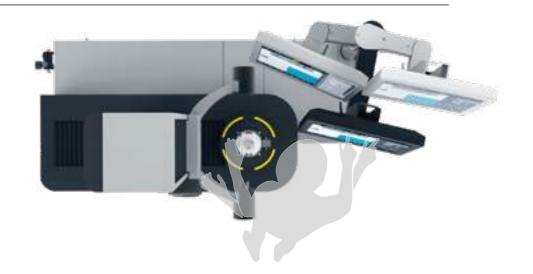
ZOLLER Solutions – With us, you receive more than just outstanding products. You get individual system solutions connected with your tools. We combine hardware, software and services for you. Everything from a single source. Everything for your success. We call it: ZOLLER Solutions.

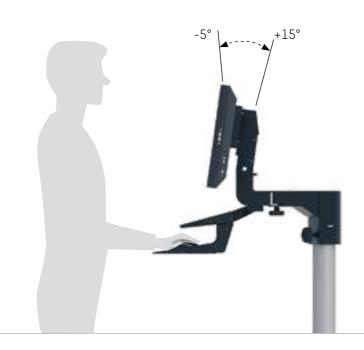
ALEXANDER ZOLLER, CHRISTOPH ZOLLER
Management



Comfort for Everyone – the Integrated Control Unit

The monitor on the integrated operating unit can be individually adapted to the needs of the various operators to ensure that work is carried out in a health-friendly and comfortable manner: Height, swivel angle and tilt angle are flexibly adjustable.



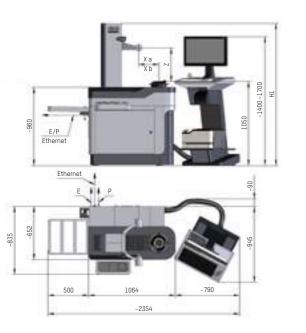


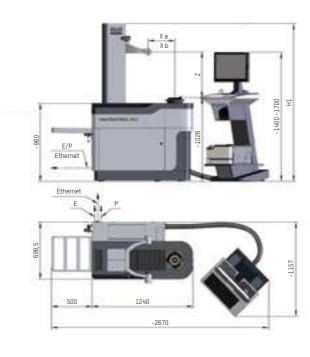


Installation Dimensions

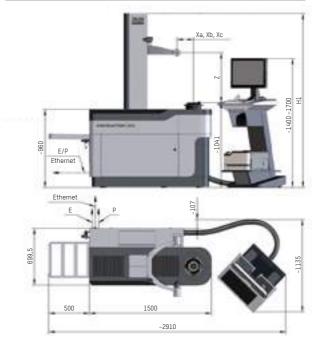
Installation	dimensions »ver	nturion 450« with	ı »cockpit«
Z (mm)	Xa (mm)	Xb (mm)	H1 (mm)
450	210	310	~ 1750
620	210	310	~ 1950
820	210	310	~ 2150

Installation dimensions »venturion 600« with »cockpit«						
Z (mm)	Xa (mm)	Xb (mm)	H1 (mm)			
600	300	400	~ 1936			
800	300	400	~ 2136			
1000	300	400	~ 2336			
1200	300	400	~ 2536			





Installation dimensions »venturion 800« with »cockpit«							
Z (mm)	Xa (mm)	Xb (mm)	Xc (mm)	H1 (mm)			
600	500	600	700	~ 1936			
800	500	600	700	~ 2136			
1000	500	600	700	~ 2336			
1200	500	600	700	~ 2536			
1400/1600	500	600	700	~ 2936			













Parent companyHeadquarters

Branch office
Representative

In Germany at Home – Around the World for You

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.

GERMAN

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