KELCH

Presetters

TOM V · SECA · KALiMAT · SiRiUS · CoVis · WebSet · ToolM · Contour software · Service

Contents

TOM V

The handy desktop device for those who want to measure quickly and easily.
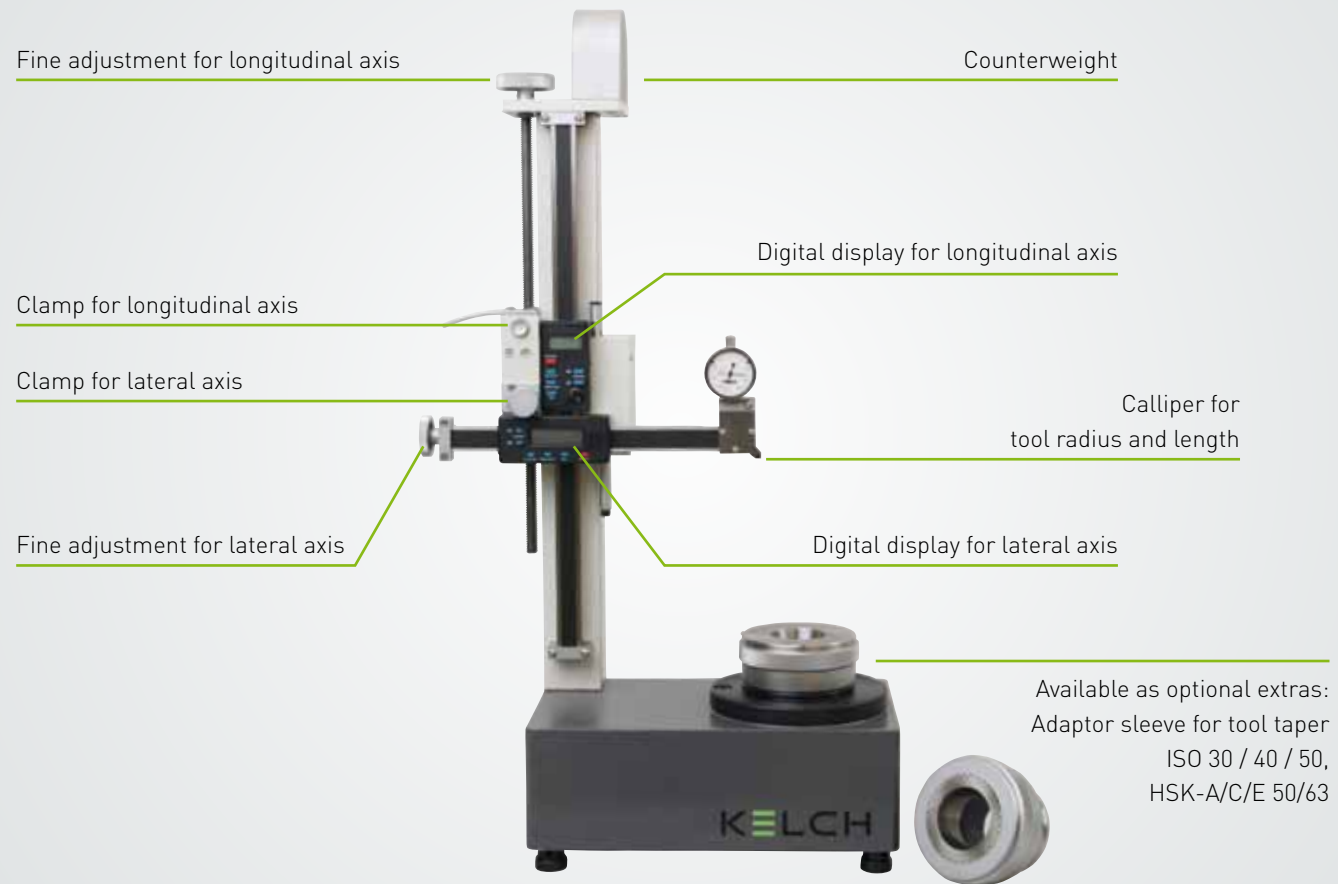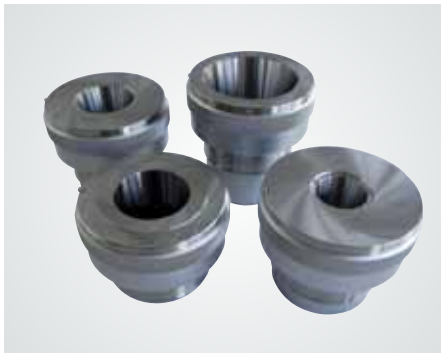
TOM V is the flexible presetter with high customer benefits. The device is perfect for quick tool setting directly on site at the machine or in the workshop. It is also an ideal additional device for a central tool setting room.
The TOM V is the right choice for determining quick and reliable measurements.

TOM V stands for:
Testing, checking, measuring,
presetting and adjusting.

Fine adjustment for longitudinal axis

Counterweight

Digital display for longitudinal axis

Clamp for longitudinal axis

Clamp for lateral axis

Calliper for
tool radius and length

Rotating tool holders, hardened
and ground with gauge for zero point
adoption.

Fine adjustment for lateral axis

Digital display for lateral axis

Available as optional extras:
Adaptor sleeve for tool taper
ISO 30 / 40 / 50,
HSK-A/C/E 50/63

KELCH

Technical data

- Measuring range:
  Longitudinal axis: 300 mm, Diameter: 200 mm
- Digital measured value display: 0.01 mm
  Repeat accuracy: 0.01 mm
- Mechanical cutting edge scanning
  Precision dial gauge display: 0.01 mm
- Base body with hardened and ground
  basic adaptor Ø 75 mm

- Stable measuring support column, precision-guided
  measuring slide
- Quick adjustment for measuring slide
- Fine adjustment using trapezoid thread
- Rotating precision tool holder hardened and ground
  with gauges X and Z for zero point adoption/
  modular adaptor sleeves in different taper sizes

- Any zero point selection
- Colour: Measuring support column RAL 7035 light grey
  Base body RAL 7011 iron grey
- Required space: L x W x H = 300 x 190 x 640 mm
- Weight: 36 kg

SECA E Presetter

With SECA E, KELCH presents a particularly cost-effective range of pre-setters in the well-known KELCH quality, which is not just suitable for first-time users, but also for professionals.

- A **stable unit** made from torsion-resistant steel profiles and two linear guides with linear ball bearings forms the basis of both axes
- **Rigid, highly precise design** of the X and Z axis with a measuring range of 400 mm diameter and 500 mm measuring length
- **The endless fine adjustment** in both axes enables the micrometer-fine setting of the axes
- Thanks to pneumatic **one-hand operation**, both axes can be adjusted quickly, individually or together as desired
- Highest level of measurement precision thanks to precise **brand-name glass scales** in both axes

SECA E Micro

Fitted with a high-contrast profile projector for optical cutting edge scanning.

- With 110 mm focusing screen diameter, 20x magnification and 15° inclination
- Precise, problem-free measuring
- 100 % suitable for workshop use
- Not sensitive to dirt and other external influences
- Flexible, rotatable template for checking angles and radii

The measuring values are evaluated by using the KELCH Micro digital electronic measuring equipment.

Precision spindle
ISO 50 precision spindle mounted on anti-friction bearings with 0.002 mm rotation precision including 4 x 90° indexing, vacuum clamping and spindle brake.

Projector
Optical high-quality, high-contrast projector for transmitted light. 20x magnification.
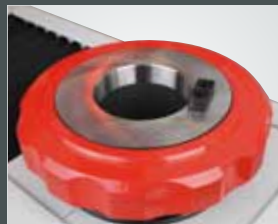
KELCH Micro
Digital LCD display.

SECA E with CoVis

The starting point for advancement.

CMOS camera

- Including maintenance-free infrared transmitted light without heat generation
- High-contrast video recording for cutting edge inspection
- LED illumination
- Telecentric lens with 5 x 5 mm measuring window
- Measured value recording without focussing
- Additional angle and radius measurement

Precision spindle
ISO 50 precision spindle mounted on anti-friction bearings with 0.002 mm rotation precision including 4 x 90° indexing, vacuum clamping and spindle brake.

Camera
Digital camera with LED transmitted light and incident light illumination for precise measurements and high-contrast cutting edge inspections.

KELCH CoVis
High-capacity electronic measuring equipment with graphic user interface and touch-screen operation.

VariTUL rack
• Table for SECA presetters
• Required space: L x W x H = 100 x 600 x 800 mm
• Load-bearing capacity: 250 kg

Mechanical turning centre measuring equipment
Quality gauge which can be adjusted in and out for measuring the rotational centre, measuring range ± 2.5 mm, resolution 1/100 mm.

Reducers
Adaptors to hold different tool tapers or cylinders in the tool holding spindle ISO 50. All standard interfaces such as ISO/HSK/PSK/VDI available.

Label printer
Thermo-label printer with or without dispenser.

KALiMAT C

Reliable and precise – the tabletop device for manufacturing cells.

Precise measuring made easy. With compact dimensions and for midsize measuring requirements, this manual measuring device features highly elaborate technology. The hand wheels can be reached and used easily; they enable fine adjustment over the entire measuring range. The tabletop device has convenient, pneumatic one-hand operation which can be controlled as required on one axis or on both axes. The various universal precision spindles, also with patented pneumatic rear clamping, make the KALiMAT C highly versatile.
Maintenance requirements and therefore running costs are reduced by its purely manual operation.

Design type:
- Tabletop device, optional on a closed TUL rack

Drive:
- 2 axes, manual
- 3rd axis manual or automatic

Cutting edge scanning:
- CCD camera with telecentric lens and ring light
- Optional: optical turning centre measuring equipment
- 2nd S camera for tool grinders

Electronic measuring equipment:
- PC electronics with intelligent KELCH EasyVision image processing
- 17" TFT colour monitor
- Optional: digital CMOS camera with KELCH CoVis electronic measuring equipment and

15" TFT colour monitor with touch-screen operation
- Projector with digital, high-capacity KELCH Pico or EASY WebSet electronic measuring equipment

Measuring ranges:
- X = -50 mm to 400 mm (ø)
- Z = 400 / 600 / 800 mm

KALiMAT E

Robust and precise – perfect for your workshop.

Robust mechanics combined with a large measuring range and precise measuring systems make the KALiMAT E the perfect workshop device. Thanks to its stable design - with reduced dependency on electronics and drives - the device is long-lasting and low-maintenance. It stands on a central column. Selective one-hand operation, fine adjustment free of play over the whole measuring range and easy-to-use switches on the operator panel to ensure an easy and comfortable operation.

Design type:
- Integrated measuring station
- Supporting central column for optimum ergonomics
- Thermally stable cast iron body
- High load-bearing capacity and stability

Drive:
- 2 axes, manual
- 3rd axis manual or automatic

Cutting edge scanning:
- CCD camera with telecentric lens and ring light
- Optional: optical turning centre measuring equipment

- 2nd S camera for tool grinders

Electronic measuring equipment:
- PC electronics with intelligent KELCH EasyVision image processing
- 17" TFT colour monitor
- Optional: Digital CMOS camera

with KELCH CoVis electronic measuring equipment and 15" TFT colour monitor with touch-screen operation
- Projector with digital, high-capacity KELCH Pico or EASY WebSet electronic measuring equipment

Measuring ranges:
- X = -50 to 530 mm (ø)
  Z = 600 / 800 / 1000 mm
- X = -50 to 830 mm (ø)
  Z = 600 / 800 / 1000 mm

KALiMAT A

Flexible design and perfectly suited to your task.

Convenient use combined with optimum precision. The KALiMAT A series has a modern, ergonomic design. The different modules promise an enormous amount of flexibility. The KALiMAT A device family can be configured individually and adapted to every situation. This means that different tasks can be carried out in numerous variations. The modular design guarantees versatility.

The torsion-resistant box profiles used in its manufacturing and made from vibration-reducing casting material guarantee precision, performance and long-term stability.
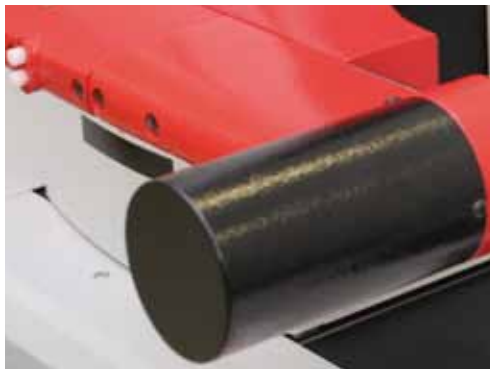
One-hand operation
The selective quick adjustment of the axes has always been standard at KELCH.
The slide clamping is quickly and easily released and the cutting edge is in focus.

Control panel
Clear, functional operation with buttons and electronic hand wheels.

KALiMAT A –
the integrated CNC measuring station for the highest demands on measuring tasks and measuring results.

Unique features:

- Stand-alone measuring device on a central column for optimum legroom in the working area; can also be used as a seated workplace or as a disabled-friendly workplace
- CNC driven in 3 axes, can be used manually if desired for quick measuring, even without reference data
- Automatic slide adjustment using high-performance step motors for highly precise positioning of the axes
- An ergonomic overall concept with an attractive design ensures high user acceptance

- Flexible arrangement, space optimised peripheral stand with height adjustable monitor plate for user friendly working
- Compact storage of all accessories such as the monitor, keyboard, printer and adaptors makes work easier
- The computer and electronics are properly accommodated and easy to access in the spacious cabinet
- Workshop suitable and durable with an industry PC for measurement control
- Individually adaptable to all measuring tasks and data flows

Design type:
- Integrated measuring station
- Supporting central column for optimum ergonomics
- Thermally stable cast iron body
- High load-bearing capacity and stability

Drive:
- 3 axes, CNC
- Optional: 4th axis for automatic length setting

Cutting edge scanning:
- CCD camera with telecentric lens and incident light
- Optional: optical turning centre measuring equipment
- 2nd S camera for tool grinders

Electronic measuring equipment:
- PC electronics with intelligent KELCH EasyVision image processing
- 17˝ TFT colour monitor

Measuring ranges:
- X = -50 to 530 mm (ø)
  Z = 400 / 600 / 800 / 1000 mm
- X = -50 to 830 mm (ø)
  Z = 600 / 800 / 1000 mm
- X = -50 to 1030 mm (ø)
  Z = 600 / 800 / 1000 mm

KALi-tec

Perfect shrinking and setting in one device.

Shrinking and unshrinking, measuring and setting – KALi-tec offers you everything in one device.

A fully functional presetter combined with an inductive shrinking device, with no limitations in technology, functionality is guaranteed. The length setting during the shrinking process and the precision when measuring are unique.

Dynamics and flexibility in one.

KALi-tec A is the combination of the KALiMAT A presetter and the i-tec XL shrinking device in an automatic station. With KALi-tec A, tools can be perfectly measured and preset as well as simultaneous shrinking in one device.
It is unique that the user has two methods for presetting the tools at the same time.

Dynamic presetting
In the phase during which the chuck is opened by warming, the tool is set exactly to the target length in a fully automatic way.
The advantages of this procedure are the short cycle times as well as the option of tool changing in just one cycle. Of course, chucks from various quality manufacturers can also be used.

Pre-settings
If measurements are required that do not allow setting during the expansion phase of shrinking, the length of the tool is determined using setting adaptors prior to heating. The tool is finally shrunk to the target length using intelligent calculation and prepositioning of the setting pins.
This method is particularly designed for complex measuring tasks or tools made from HSS.

Fully-functional presetter with integrated induction coil for automatic shrinking with length setting.

Drive:
• 5 automatic axes

Cutting edge scanning:
• CCD camera with telecentric lens and ring light

Electronic measuring equipment:
• PC electronics with intelligent KELCH EasyVision image processing
• 17" TFT colour monitor

Tool holder:
• Modular precision spindle CNC
• Inserts for all standard tool holders

Measuring ranges:
• X = -50 to 530 mm (ø)
  Z = 400 / 600 / 800 mm
• Shrinking length: 600 mm

Shrinking:
• Automatic induction coil
• With and without length setting
• For HSS and solid carbide
• Optional: Vacuum for smoke removal

Cooling:
• Separate cooling station, completely decoupled from the temperature critical presetting parts
• Simultaneous cooling of 3 shrink chucks
• Cooling adaptors that allow water flow with modular inserts
• Cooling time approx. 60 seconds

SiRiUS E

The flexible solution for turning, drilling and milling tools.

Versatile use with an excellent result. The SiRiUS E covers a broad, diverse range of tasks thanks to its stable rotary table and extensive measuring range.
The numerous variations offered provide the device with a high level of flexibility. SiRiUS E is easy to use and offers the advantage of low running costs in addition to excellent measurement results thanks to its robust mechanics and precise measuring technology.

SiRiUS E –
perfectly designed and robust.

The SiRiUS E is a self-supporting presetter with a high amount of rigidity. This leads to extensive resistance against interference factors such as vibrations. When assembling a wide variety of tool holders and spindles, the spacious rotary table has a great deal of flexibility, meaning that you don't need to change inserts or adaptors. The axes are set quickly and precisely thanks to easy-to-reach hand wheels along with one hand operation and fine adjustment free of play.

The SiRiUS E can be equipped in different ways depending on the field of application and task. Either, with a digital display or a workshop PC and profile projector or with high-resolution image processing.

Example of a
rotary table assembly

Design type:
- Self-supporting design with integrated cabinet
- Travelling command centre for a high level of operator comfort
- High load-bearing capacity and stability

Drive:
- 2 axes, manual
- 3rd axis manual or automatic

Cutting edge scanning:
- CCD camera with telecentric lens and incident light

- Optional: optical turning centre measuring equipment, projector

Electronic measuring equipment:
- PC electronics with intelligent KELCH EasyVision image processing
- 17" TFT colour monitor
- Projector with digital, high-capacity KELCH Pico or EASY WebSet electronic measuring equipment

Measuring ranges:
- X = 520 mm (ø); Z = 500 mm
- X = 520 mm (ø); Z = 800 mm

SiRiUS A

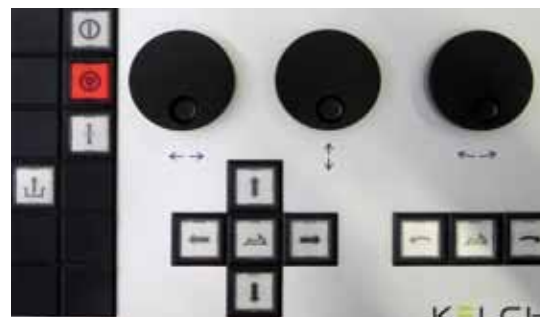## The leader in tool presetting.

The SiRiUS A is characterised by long-term stability, excellent repeatability and unrivalled precision. SiRiUS A is predominantly used in setting rooms. The measuring and presetting of various tools for turning, drilling and milling determine its range of operation. The device completes these tasks with the highest level of precision.
Its stable design makes the SiRiUS A an ideal device for workshops. It can be used optimally and has low maintenance requirements, so there are almost no subsequent costs.
The guideways are covered with metal plates which prevents soiling from oil, chips and dust while guaranteeing protection for the glass scales and drive shafts. This means the measurement-relevant components are optimally screened and there is virtually no possibility of damage.

Modular precision spindle for highest level of repeatability when changing different insert modules.

Motor-driven axis positioning directly at the accompanying command centre.

Facts at a glance

- The measuring and presetting device is self-supporting and features a high level of rigidity
- Resistance against interference factors such as vibrations
- The large rotary table can be extended by a position monitoring system and guarantees a high level of flexibility with a wide variety of working processes
- The motor-driven axis control is equipped with three speeds and additional one-hand operation
- Manual or partially automated working is possible with or without target data
- The CNC drives are available on all levels and ensure ease-of-use
- A travelling control centre ensures convenient use and reduces improper operation and time requirements
- Workshop compatible design with integrated measurement control and industry PC

Design type:
- Self-supporting design with integrated cabinet
- Travelling control centre for a high level of operation comfort
- High load-bearing capacity and stability

Drive:
- 2 axes, CNC
- 3rd axis manual or automatic

Cutting edge scanning:
- CCD camera with telecentric lens and incident light
- Optional: optical turning centre measuring equipment

Electronic measuring equipment:
- PC electronics with intelligent KELCH EasyVision image processing
- 17" TFT colour monitor

Measuring ranges:
- X = 520 mm (ø); Z = 500 mm
- X = 520 mm (ø); Z = 800 mm
- Rotary table 800 mm

Micro / Pico

Micro / Pico from KELCH are high-capacity electronic measuring devices that have been specially designed for use with presetters.

Micro

Pico

KELCH Micro / Pico LCD

The equipment is fitted with a soft keyboard and workshop compatible digital displays with zero-point memory that were designed especially for use in workshops (dirt, particles, etc.). The system is also equipped with an acoustic feedback which indicates measurement designations and measurement results.

The dialogue control is shown via a menu-controlled 6″ LCD display. The tool memory stores 300 / 500 tools. The switchable display from diameter to radius enables a certain level of flexibility in the measurement results. The special functions for circle and angle calculations increase the ease of use.

The devices have interfaces for external PCs and label printers. The intelligent digital electronics offer the possibility of evaluating presetting and measurement values easily. All programme functions can be easily recalled with a push of a button. The workshop compatible equipment features practical short travel key switches for control.

KELCH CoVis

- Operated using a 15″ touch screen monitor
- Camera with 5 x 5 mm measuring window
- 28x camera image magnification
- Cutting edge inspection with LED light and zoom function
- Total image function for fast measuring

- Adaptor, zero point, tool and tooling sheets memory
- Additional measurements: radius / circle sections, cutting angles, general angles and centre of radius / circles
- Data output via a printer or network

CoVis

The simplest way to get a precise result.

Fast, reliable and easy to use without the need of extensive training – these are the requirements that users place on smaller control units in order to master everyday measuring and presetting tasks.
The display and operator dialogue are shown on a clearly arranged touch screen. Logical measuring tasks, such as angle calculations, circle diameter and theoretical points can be activated easily by using your finger tip on self explanatory module icons. The easy management of the adaptors, holders, tools and tooling sheets enables permanent access to the results in terms of the workflow.

Mapping image

Tool data mask

Cutting edge inspection

EASY WebSet

Measure quickly, easily and securely.

This software makes measuring child's play – even without special knowledge. Using the user interface integrated into an Internet browser, every user can instantly find their way around using the well-known forward/back navigation. A simple, clearly arranged start page is the direct intro-duction for every measurement task. Optionally, additional input masks, such as Picture Start and ParaDirect, lead each user step-by-step both to the right measurement result and to the automatically running measurement programme.

Adaptors, machines, master tools, tooling sheets and measuring processes are saved in the integrated data-base. Bi-directional data communication (DNC) via net-work cards or serial interfaces are included in the KELCH data format as standard.

EASY WebSet leads each user securely through the pro-gramme with Picture Start using concise, easily under-standable input dialogues. Practical images and graphics are useful for clarification.
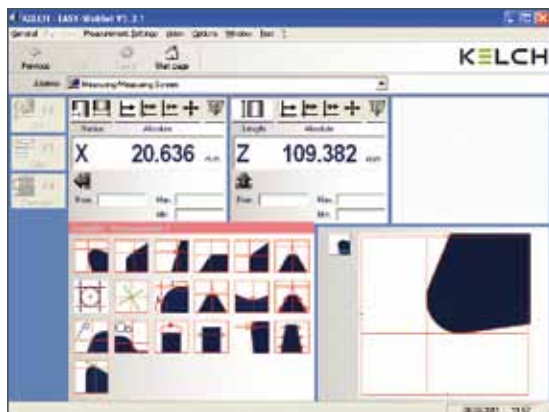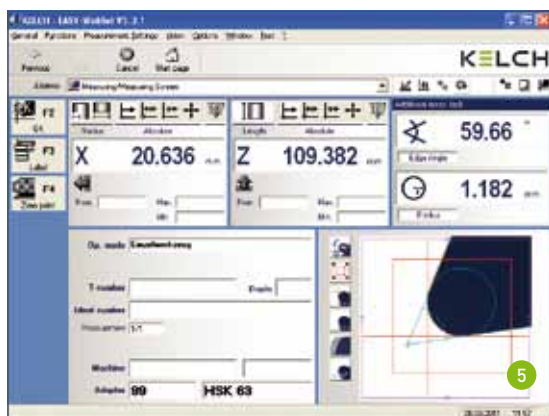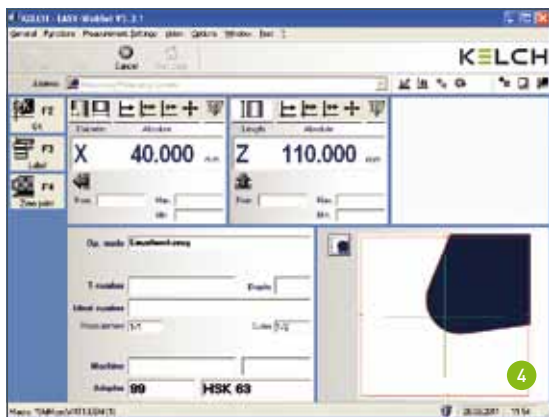
Step 1: The start page is for entering the measurement of either individual tools or whole tooling sheets. Then, the appropriate adaptor is chosen on the presetting device. If one of the tools entered has already been saved, the system recalls this using the identification number and immediately begins with the measuring process.

Step 2: A tool is chosen using Picture Start. The measurement is carried out with the chosen tool. Picture Start is our own, KELCH-developed selection menu.

Step 3: The desired tool groups are defined using different graphics. Simply click on the right graphic depending on tool type and cutting edge geometry.

Step 4: ParaDirect (PaD) is used for data input. This is a concise, easy-to-understand input dialogue into which target dimensions and tolerances are entered. Data retrieval is only carried out for the visible data (e. g. number of cutting edges).

Step 5: The appropriate measuring process begins following confirmation with the Enter button. The data is entered from the PaD and the desired measurement results are available promptly.
Any action required is clearly shown on the monitor.

Measuring made easy.

With the software option WebSet Teach-in, complex tools can now be measured fully automatically. Fully automated measuring guarantees precise measuring results and enables presetters to be used without staff and a third shift.

All measuring steps are determined and can be saved as a measuring programme with the tool.

The automatic measuring process will begin immediately after entering the identification number on the start page (step 1).

Really easy.

The new user interface integrated into the presetter software achieves the most precise measuring results and is easy to use and understand. The familiar home-forward-back navigation is similar to an Internet browser. You can get back to the starting point by pressing just one button.

You can find support for the EASY WebSet software online, this is just as easily understandable and arranged similarly to Windows. A direct start is possible using EASY WebSet. The online help contains important information about the management of EASY WebSet.
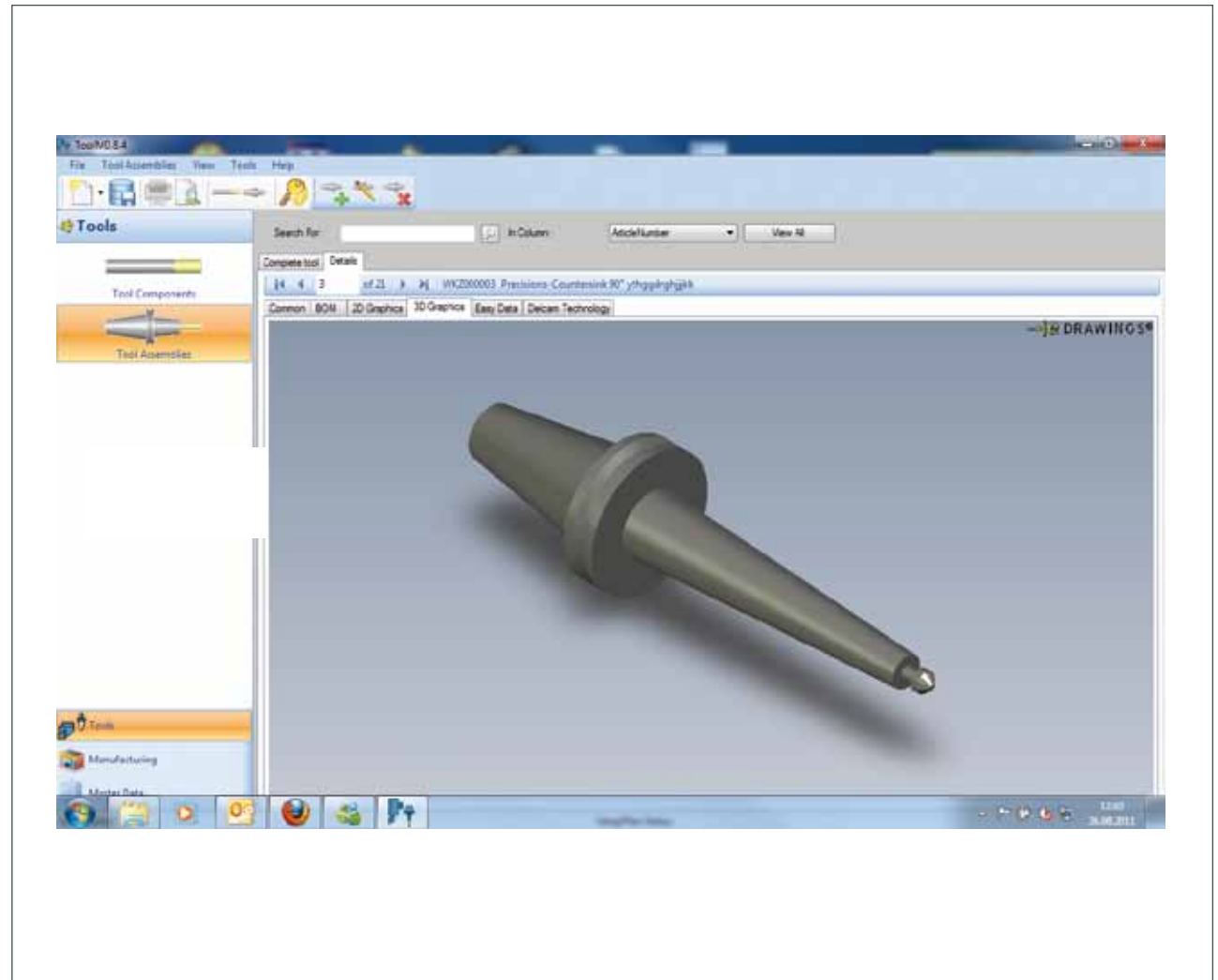
Features at a glance

Operator guidance	Simple input masks lead the user step-by-step to the right measuring result
Automax®	Automatic, time-saving measuring of cutting edges without focussing
Full screen view	Cutting edge possible in full screen view
Explorer	Simple navigation in data management – like Windows operation
Graphic protocol	Graphic printout to record measured tools
Online help	Integrated online help in Windows format
Picture Start	Simple retrieval of automatic measuring processes using easy-to-understand tool pictures
ParaDirect	Direct parameter input for automatic measuring of even new or unfamiliar tools
Contour measurement	Every type of cutter is scanned easily
Module recognition	The one-size fits all solution for maximum security
Tool Tips	Context sensitive help when starting up elements showing the user what activity is being called up
Data Manager	Tool management with the functionality of the market leader TDM – scalable from a single user up to a group-wide solution
Teach-in	Software option for individual setting and programming of measurement processes – simple, interactive and supported graphically
Total image	Patented procedure to generate the envelope and measure the cut produced
ToolM	Our own extensive tool management system

ToolM Tool Manager

The perfect addition.

The tried-and-tested, high-performance EASY measurement control has been used with KELCH presetters by renowned users for many years. By using the latest technology, the KELCH software department has succeeded in developing a tool management system perfectly adapted to the EASY measurement control for use by small and medium-sized companies.

Free demo available!

Visit www.kelch.co.uk
www.kelch-inc.com

The ToolM management software stands out with its extensive range of functions and is easy to use.
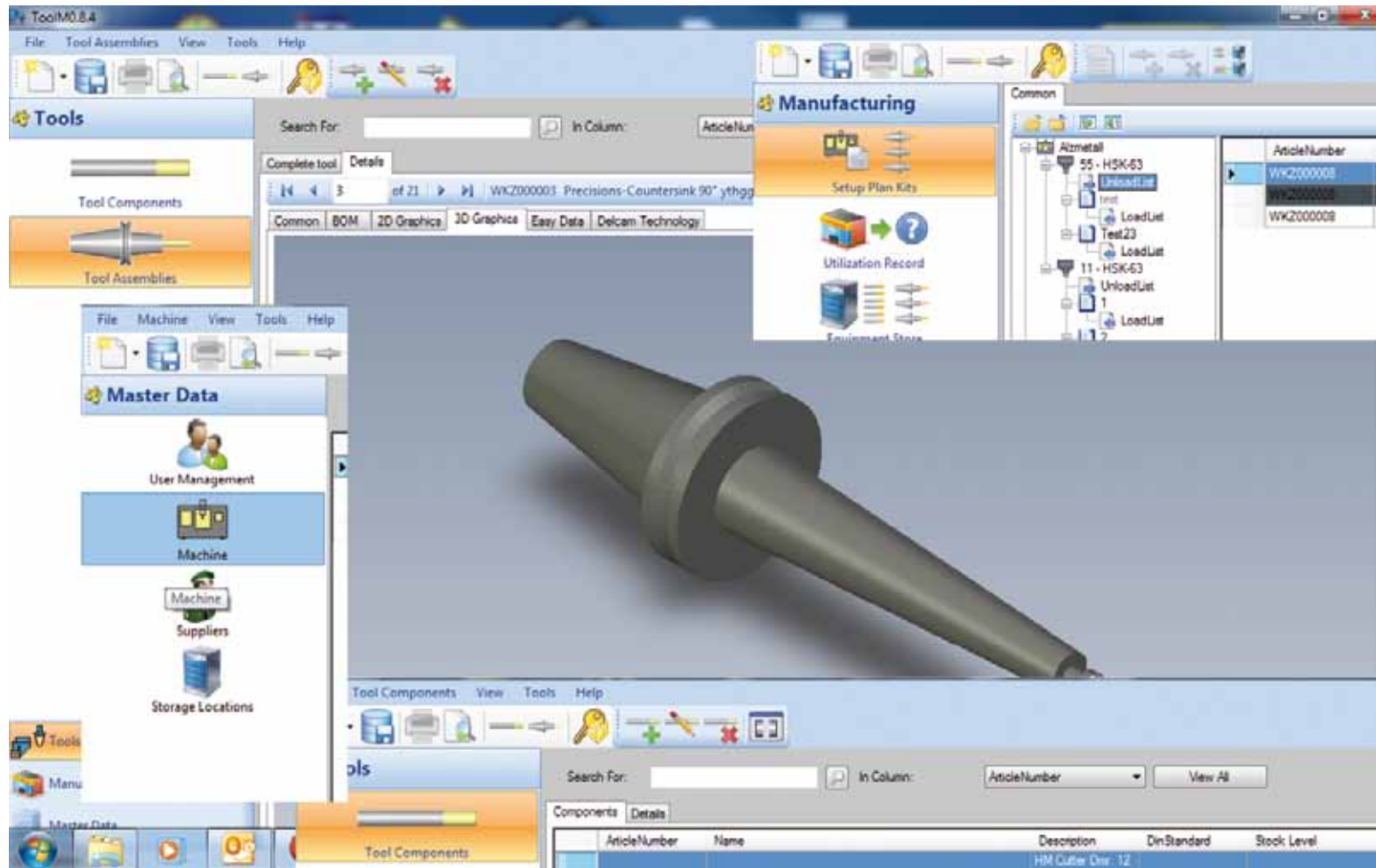- With integrated EASY data interface as standard
- With EASY-compatible data, components and complete tools
- With pre-installed KELCH product catalogue
- Available for all KELCH presetters (with EASY control)

Manage drilling, turning and milling tools easily.
The ToolM Tool Manager enables easy management of complete drilling, turning and milling tools. A central database with an extensive memory secures all tool components such as holders, cutters as well as tool data for geometry, technology and cutting data. This ensures simple management while keeping your data close to hand whenever you need it.

The most important ToolM
Tool Manager modules at a glance:

- ToolM basic module
- Graphic module
- List module
- Job planning module
- Tool data import module
- Ordering module

Functions:

- Stock and supplier management
- Master data for machines, users, suppliers, etc.
- Usage records
- Interface for KELCH Easy WebSet
- Creating and processing tool components
- Assembly of complete tools
- 2D and 3D CAD for components and complete tools

- Search and list filter
- Reporting and printout
- Automatic calculation of differential lists for tooling sheets
- Importing tool components in accordance with the DIN 4000 standard using CSV import
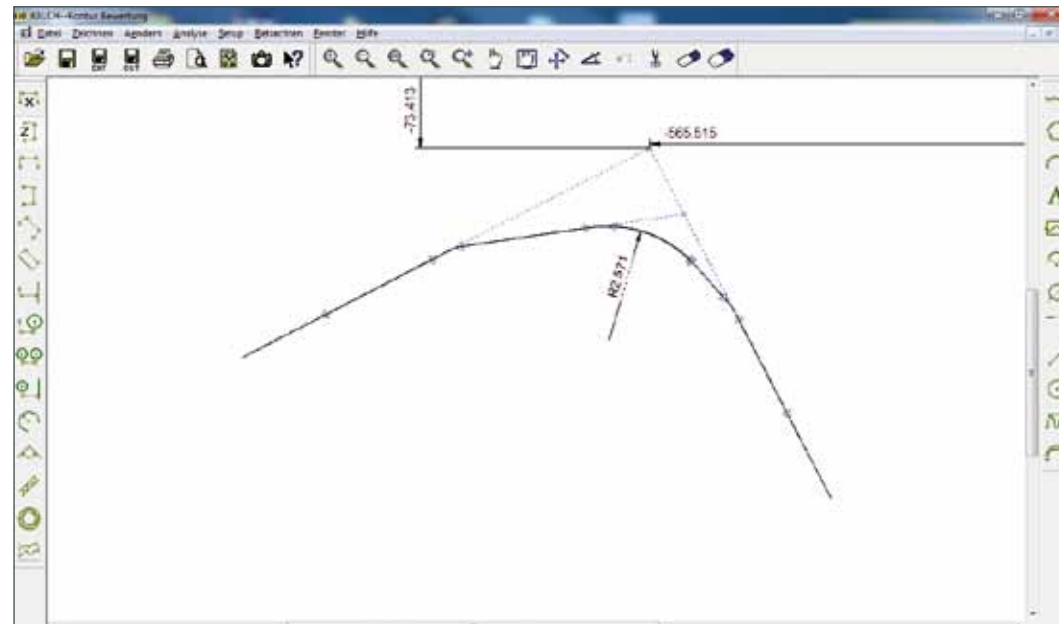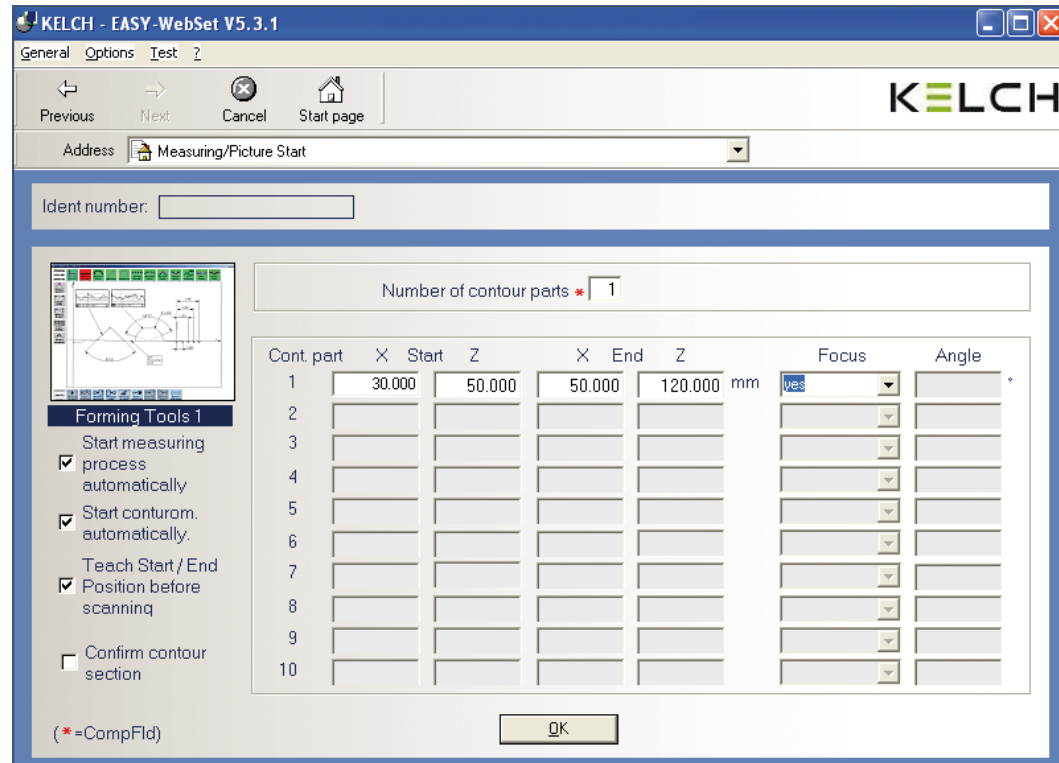
Contour Software

The intelligent solution.

The KELCH Contour Software is ideal for automatically checking tool contours for straight or spiral grooved forming tools.

After defining the start and end points, the contour is scanned in one or partial contours. The recorded point coordinates are interpreted in an analysis programme and transformed into a polygon. All geometrical elements can be extracted and dimensioned from the calculated, graphically displayed contour and also compared with the target contour. The geometrical comparison can be made using particular data such as target radius, angle or distance, or deviating from a predetermined optimum contour which is fed in e.g. DXF format.

Imperfect shapes for individual elements can be displayed in a particularly clear way. The measurements determined and – taught-in – in this way are saved as a reference file and are available for the next measurement. The whole procedure therefore runs automatically from scanning to logging.
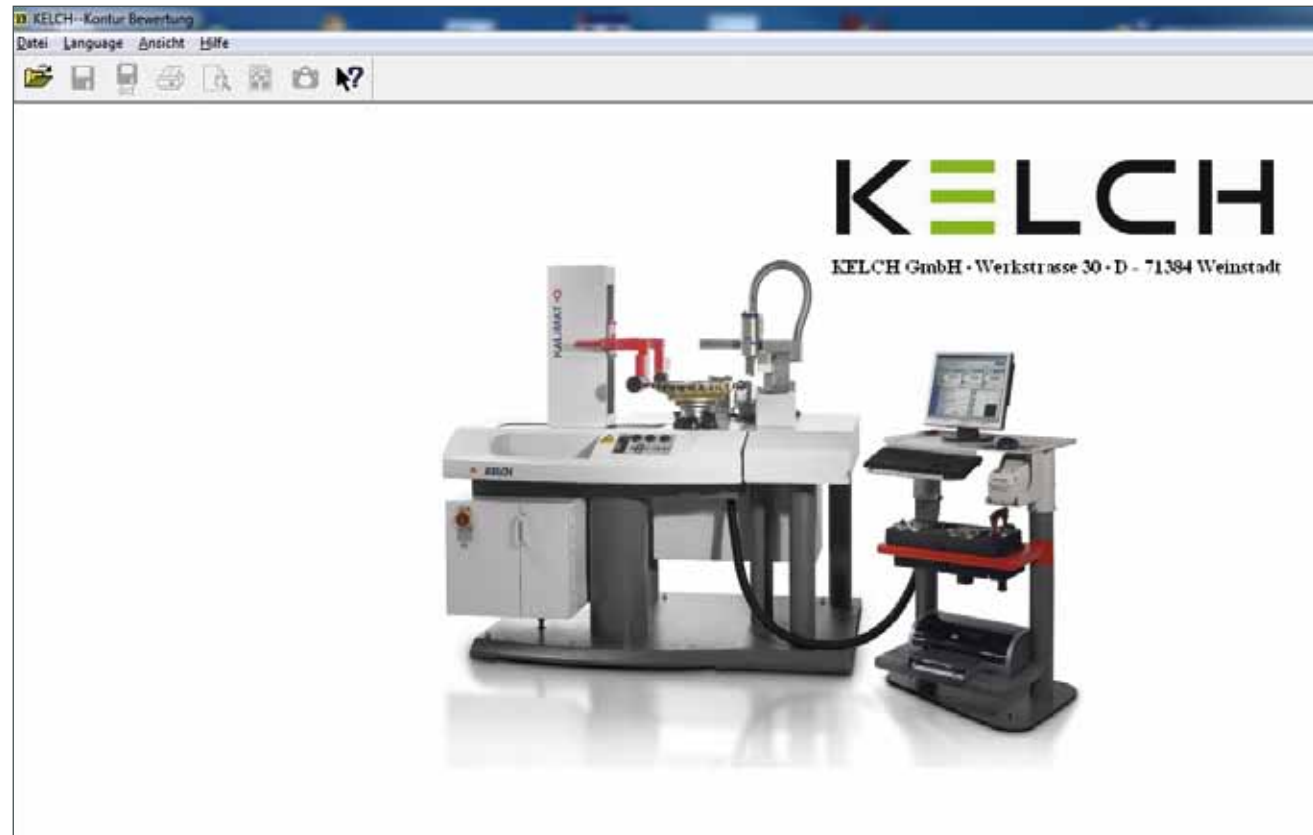
The Contour Software package offers:

Handling:
- Easy contour recording
- Clearly arranged protocols
- Ease-of-use

Technology:
- Simple contour comparison using DXF files
- Measurement of any geometric element through to its finish and shape quality
- Straight and circular shapes can be formed from segments
- Extensive analysis also with auxiliary elements
- Measurement of straight-grooved or spiral forming tools
- Contour scanning with a 3-axis CNC device
- Synchronised switching
- Intuitive graphic surface
- Measuring of any distances, angles and radii
- Comparison with target contour
- Tolerance considerations
- Clear logging

KELCH Accessories

For even more flexibility, precision and security.

Original accessories from KELCH always give you the security of working with proven and certified materials.

MoDetec: automatically more security

The patented module supervision prevents errors when exchanging insert modules for the various tool holders. Using the latest transponder technology, the calibration data is directly transferred to the device control and compared fully automatically whenever the insert is changed, independent of the user. This ensures completely secure assignment of the chosen adaptor and the corresponding insert module.

Balluf

The properties of the tools are as different as the tools' appearance is similar. A secure process to prevent mistakes is using data chips in the tool which can be read and written manually or automatically. This is how reliable tool identification works. The automatically movable reading head offers even more flexibility and security to prevent mistakes.

Turning centre measuring equipment

- Quality dial gauge which can be swivelled in and out for measuring the turning centre, measuring range ± 2.5 mm, resolution 1/100 mm.
- Camera which can be swivelled in and out to optically examine the location of the turning centre of the cutting edge measuring range

S camera

This 2nd camera can be used to check tool geometries which are no longer measurable in transmitted light. Among other things, angles, radii and distances can be measured in the incident light and displayed in 50x magnification. The camera can be adjusted from -90° to +90°.

This enables you to determine additional cutting edge geometry parameters, particularly required for grinding tools on CNC machines.

Modular Precision Spindle Inserts for the Modular Precision Spindle

The contact face and the short taper ensure maximum repeatability when changing the insert modules that are available for all standard HSK, Capto, KM and ISO tool holders. Clamping for all tools is similar to the machine tool spindle. For ISO taper holders using retention knobs centrally from behind and for HSK holders using original clamping units expanded from the inside.

KELCH Service

Good service already begins prior to the sale and not afterwards. KELCH provides service before, during and after the sale – without any ifs and buts.

KELCH is well-known for its excellent advice. The service is in no way inferior to this. The only difference is that we also call our service "support". This is due to the fact that we accompany our customers from the beginning – i.e. from the purchase up to the maintenance.

For our customers this means that they are in good hands at all times because we know how important good service is.

The new KELCH seal provides increased security for all KELCH devices. This seal assures that you will receive the best, most professional service for your KELCH equipment. We guarantee absolute quality and offer maintenance contracts in combination with interesting bonus programmes and discounts. Benefit from KELCH service and only trust the original.

Basics
Exclusively for our customers and our authorized representations, we keep all conventional spare parts of the current series at fairly calculated prices in stock. Even for devices up to an age of 15 years, we are in most cases able to deliver spare parts short-term or to offer suitable alternatives.

Maintenance contract
One time costs for the maintenance of the first device including travel costs.

Repair service
We offer you the possibility to have your devices or also components of your devices (e.g. your PC) repaired quickly in-house. You save travelling costs or double journeys, if the error cannot be resolved immediately. We can also organize the collection, if necessary within two hours, as well as the return delivery for you.

Lease/rental devices
We are glad to supply you out of our pool of lease and rental devices (if available) for the duration of the repair of your components at KELCH. Our maintenance contract customers have privileged access to this service and of course at special conditions.

Extended warranty
When concluding a maintenance contract and carrying out the first maintenance within 12 months after the purchase of a new device, the warranty is extended automatically to 24 months.

	Basics	Individual maintenance	Maintenance contract	Calibration contract for precision tools
Spare parts service	✔			
Spare parts service at special prices		✔	✔	
Repair service	✔	✔	✔	✔
Lease/rental devices	✔	✔	✔	
Extended warranty for new devices			✔	
Data recovery (if possible)			✔	
Software support		✔	✔	
24h service		✔	✔	
Retrofits, updates, upgrades	✔	✔	✔	
Retrofits, updates, upgrades at special prices			✔	
Calibration/certification of force sensing bars, measuring gauges and test arbors	✔			
Calibration/certification of force sensing bars, measuring gauges and test arbors at special prices				✔

Data recovery
It can happen quickly, due to power failure or other unforeseeable events the database is insecure and the last backup is already too old for restoring – important data is lost. We offer our maintenance customers the possibility to recover their data at KELCH. Invoicing occurs according to expense.

Software support
We offer our customers with a maintenance contract priority assistance in software questions. Invoicing for this support per half hour or part thereof.

24h service
We offer maintenance to our customers with a guaranteed response time of 24 hours. (Monday to Friday from 8 a.m. to 5 p.m., except on public holidays).

Retrofit upgrade
Only we offer you the opportunity to update your device. Especially in the fast-paced control technology it is important to stay up to date. The progressive discount rate based on spare parts service and the advantages of a maintenance contract also apply here of course.

Calibration and certification of KELCH measuring equipment
We calibrate and certify your KELCH measuring equipment such as measuring gauges, test arbors and force sensing bars in-house. Optional: If you do not want to keep an eye on this yourself, we can relieve you from this task with a calibration contract.

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