



KELCH

Tool presetters
BASIC line

High-performance, precise tool setting is essential when the highest degree of manufacturing precision and maximum efficiency of production resources are required.

We are convinced that you will find the most appropriate solution within our extensive range of **KENOVA set line** tool presetters. Tailored to every use and every budget.

KELCH can offer you the widest range of vertical tool presetters. The portfolio ranges from the simplest entry-level models through to machines with several CNC axes.

Are you looking for special applications? KELCH has them all. After all, it is precisely special solutions for out of the ordinary measuring tasks that differentiate a supplier of expertise.

For example, our patented MoDetec module monitoring system automatically monitors whether the insert module fitted is the correct one for the adapter selected in the control. It is now impossible to use an incorrect insert module! And as reference values are immediately available, there is instant assignment to adapters, machines and tools.

BASIC line





KENOVA set line V123

The handy tabletop device for anyone wanting to measure quickly and easily.

The KENOVA set line V123 is the flexible tool presetter with a host of benefits. The unit is perfect for quick tool presetting directly at the machine or in the workshop. It is also an ideal additional unit for a central setting room. The V123 unit is the right choice when it comes to recording quick and reliable measurements.

Available as an optional extra:
Adapter sleeve for tool tapers
SK, HSK, PSC and VDI

KENOVA set line

V123

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 with hardened and ground basic adaptor Ø 75 mm
 - Stable measurement support column, precision-guided measuring slide
 - Quick adjustment for measuring slides
 - Fine adjustment using trapezoidal thread
 - Rotating precision tool holder hardened and ground with standard gauges X and Z for zero point adoption / different taper sizes of exchangeable adaptor sleeves
 - Any zero point selection
- Colour:
- | | |
|-----------------------------|---------------------|
| Measurement support column: | RAL 7035 Light grey |
| Base: | RAL 7011 Iron grey |
- Required space:
- | | |
|-------------|--------------------|
| L x W x H = | 424 x 270 x 690 mm |
|-------------|--------------------|
- Weight: 36 kg

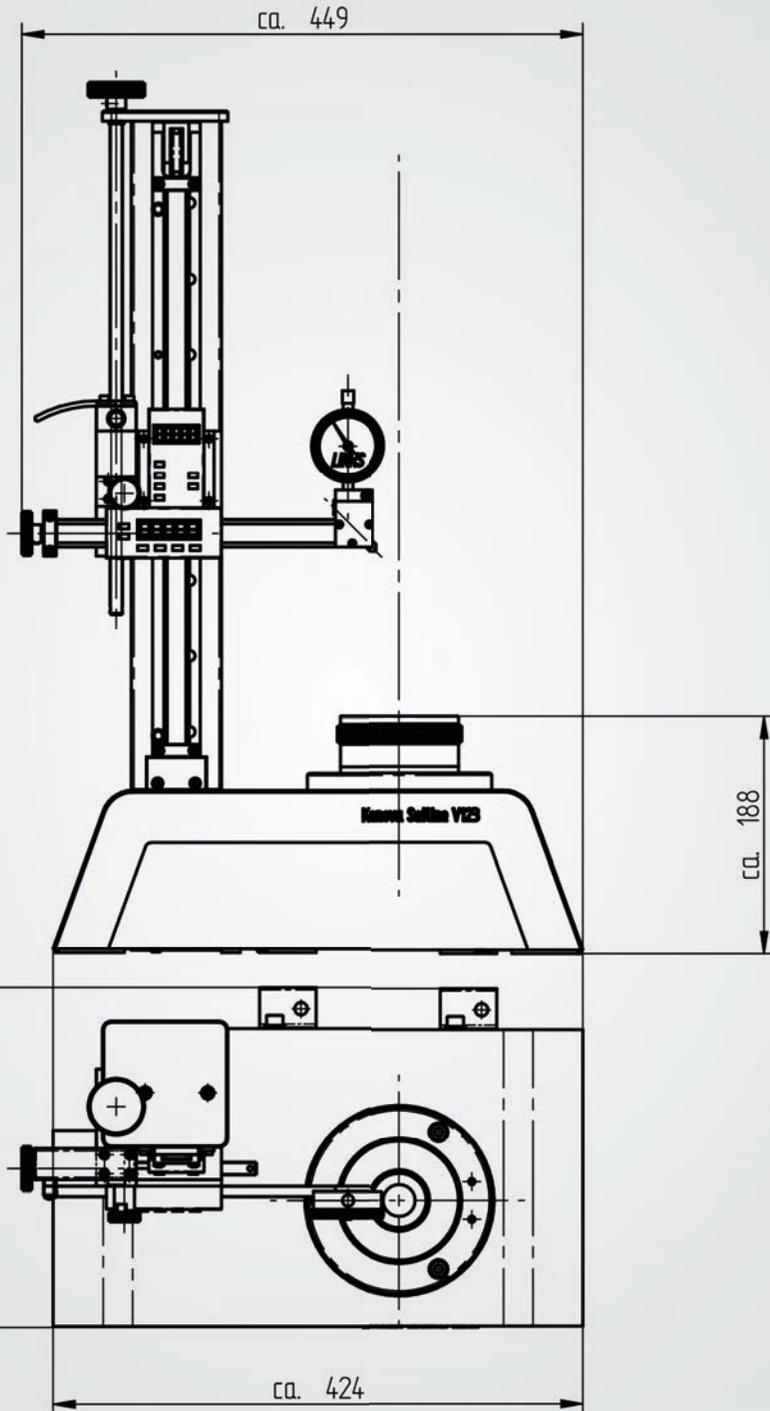


The KENOVA set line V123 is synonymous with testing, checking, measurement, adjustment and re-adjustment.



Rotatable tool holders, hardened and ground with a standard gauge for the longitudinal and transverse axis to zero point adoption.

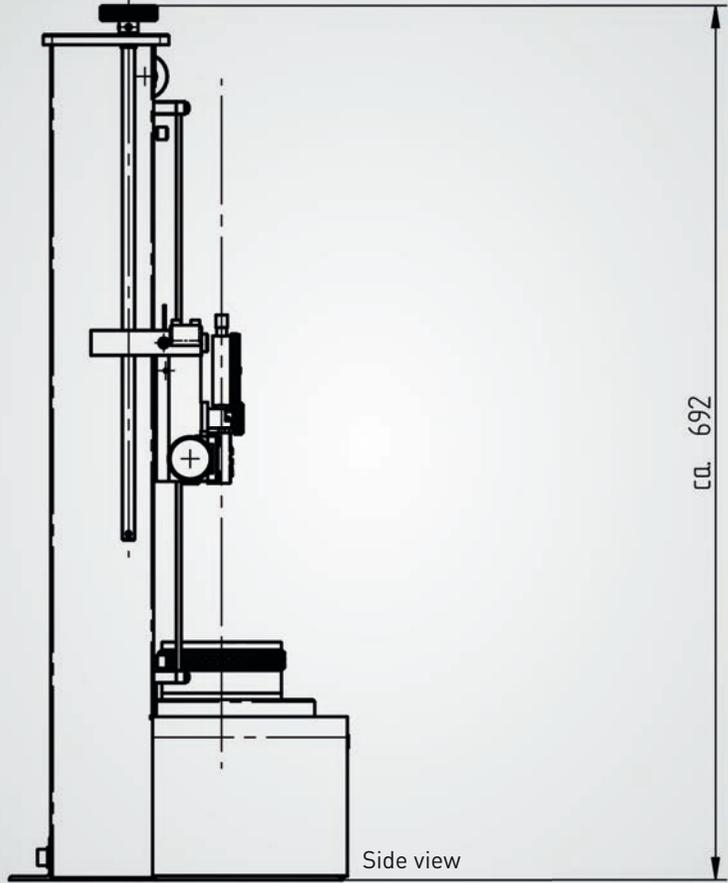
Front view



Top view

KENOVA set line V123

Layout plan



Side view

KENOVA set line V224

The handy tabletop unit with intelligent and intuitive software.

The KENOVA set line V224 represents the evolution from the entry-level models to the Basic line. Compact and unimposing, it can undertake a range of measuring tasks and also includes a CMOS camera and a printer interface. This unit is the perfect system to introduce you to non-contact tool measurement. The 5.7-inch touch screen guides operators intuitively through the measuring tasks and ensuring they quickly reach the measuring result requested. The fine adjustment for both axes enables operators to position the tool in the camera image securely and precisely. A wide range of different adaptor sleeves means that most tool holders can be set in the spindle.

KENOVA set line
V224 Video:





Smart Pro

The Smart Pro control offers outstanding convenience for entry-level tool presetters. Thanks to its 5.7-inch touch monitor, operators are faced with a clear intuitively operated user interface, with which they can quickly and accurately measure tools. There are also informative function modules and descriptions available on the user interface, which permit operators to perform all essential tool measurements, such as diameter, radius, angle, length and chain dimensions. The label printer then prints out the measured values.

Additional display functions aid operators in setting up image processing, such as camera and light settings.



Fine adjustment for the X and Z-axis.



Rotatable tool holders, hardened and ground with a standard gauge for the longitudinal and transverse axis to zero point adoption.

KENOVA set line V224

Technical Data

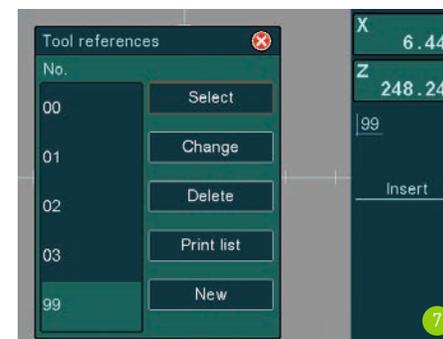
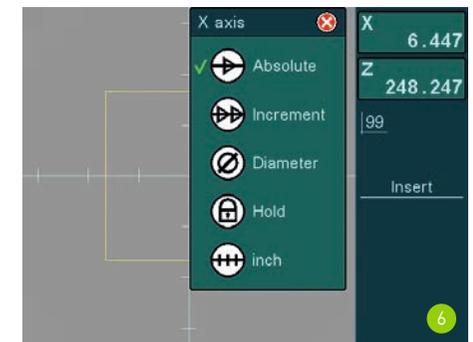
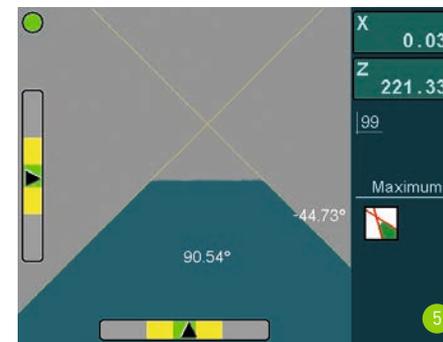
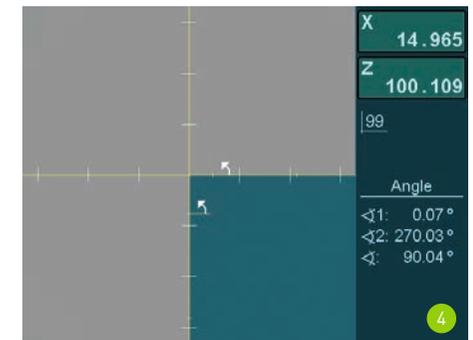
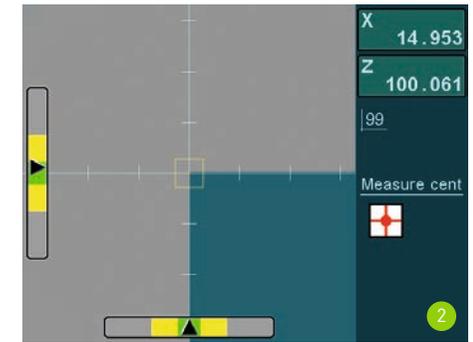
- Measuring range:
Longitudinal axis: 400 mm, Diameter: 250 mm
- Digital measured value display: 0.001 mm
Repeat accuracy: ± 0.005 mm
- Contactless optical cutting edge detection
- Base with hardened and ground basic adaptor $\varnothing 75$ mm
- Stable measurement support column, precision-guided measuring slide
- Quick adjustment for measuring slides
- Fine adjustment using trapezoidal thread
- Rotating precision tool holder hardened and ground with standard gauges X and Z for zero point adoption / different taper sizes of exchangeable adaptor sleeves
- Any zero point selection

- Colour:
Measurement support column: RAL 6018 Yellow-green
Base: RAL 7011 Iron grey
Tower: RAL 7035 Light grey
- Required space:
L x W x H = 500 x 700 x 900 mm
- Weight: approx. 70 kg

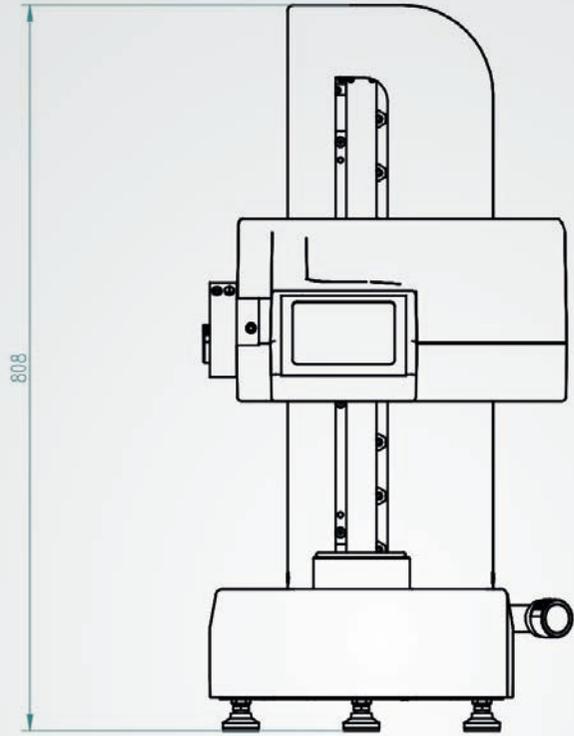
Smart Pro

The intelligent all-in-one image processing system for entry-level tool presetting and measurement.

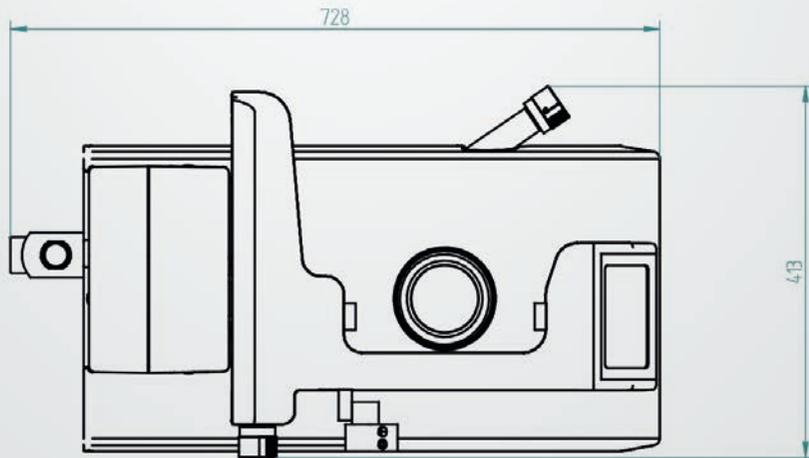
- 1 Measurement of dynamic cross-hairs:** For operator-independent and fast measurement of the maximum values of different geometries. The cross-hair automatically finds the cutting edge and remembers the maximum values until the measurement can be restarted, enabling the individual cutting edges of multiple cutting-edge tools to be compared.
- 2 Measurement of fixed cross-hairs:** The fixed cross-hair acts like a projector, with the cutting edge having to be manually positioned on the cross-hair. The colour-coded adjustment bar displays to the operator how well the cutting edge is positioned for measurement, thereby providing for maximum possible repeatability.
- 3 Measurement of radii:** Radii are measured automatically as soon as a suitable radius has been detected in the image. The points can also be positioned manually if radii have to be recorded and measured at very specific points.
- 4 Measurement of angles:** Angles are measured automatically as soon as the cutting edge has been detected in the image. The system generally records the included cutting angle and the angle to the horizontal. If specific angles are to be recorded, they can also be defined manually. Up to 3 angles can be measured and displayed simultaneously.
- 5 Theoretical points:** Theoretical geometries can equally be recorded and measured automatically and operator-managed. This can involve the theoretical point with counterbores, the theoretical length or the radius on the edge of the drill.
- 6 Axis functions:** Axes can be displayed in mm or inches, as an absolute value or as a chain dimension, and by their diameter or radius. An axis holding function is also integrated for measuring over-sized cutting edges.
- 7 Adapter menu:** Clearly arranged menu for setting up, deleting and selecting adapters. Up to 99 adapters can be stored.
- 8 Measuring process:** Apart from the standard measuring processes, there are a further 11 measuring processes for measuring specific geometries, enabling almost all measuring tasks to be solved.



Front view

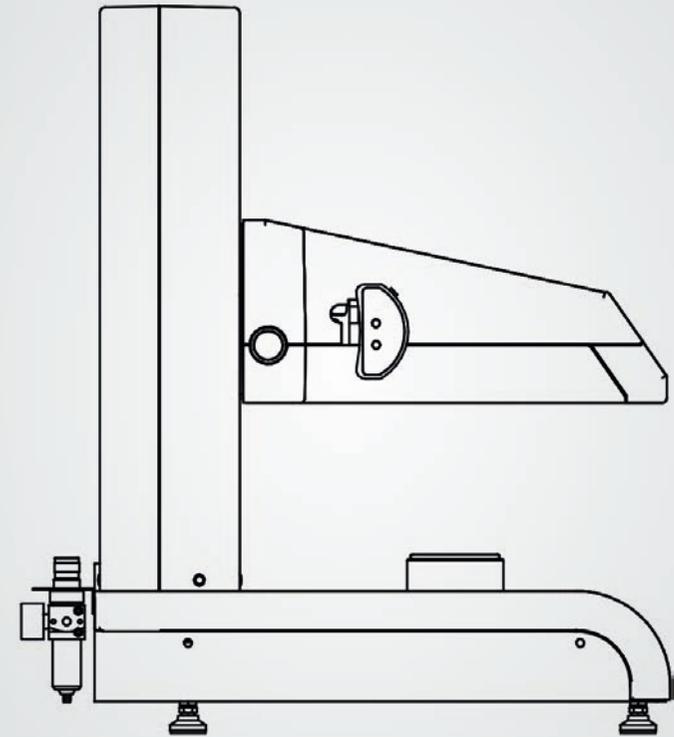


Top view



KENOVA set line V224

Layout plan



Side view

Accessories for the BASIC line

Extend the tool presetting system to meet your needs and requirements and customise it using our accessories.



TUL Rack

- Installation rack for KENOVA tool presetters
- Required space: L x W x H = 1020 x 620 x 800 mm
- Load-bearing capacity: 250 kg



TUL workbench with beech plywood worktop

- Complete with a sheet steel shelf (250 mm deep)
- Colour: RAL 7035 Light grey
- Required space: L x W x H = 1500 x 700 x 840 mm
- Load-bearing capacity: 1000 kg



Label printer

Thermo-label printer



Protective cover for V123 and V224 units

- Protects from dust and dirt

Basics

We keep all common spare parts of the current series in stock at fairly calculated prices exclusively for our customers and authorised representatives. In most cases we are able to quickly deliver spare parts or offer suitable alternatives even for systems up 15 years old.

Maintenance contract

One-off cost for the maintenance of an initial system including travel costs.

Repair service

We offer you the option of having your units or components (e.g. your PC) repaired quickly in-house by KELCH. You save on travel costs or dual journeys, if the fault cannot be resolved at the first attempt. We can also organise the collection and also the return delivery.

Lease and rental devices

We would be pleased to supply you out of our pool of lease and rental units (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 rates.

Extended warranty

If you conclude a maintenance contract and if the first service is carried out within twelve months after the purchase of a new unit, then the warranty is automatically extended to 24 months.

Data recovery

It can happen quickly. Following a power failure or other unforeseeable events, the database has become unstable and the last backup is already too old to restore – important data is lost. We offer our maintenance contract customers a data recovery option at KELCH. Invoicing is on a cost-basis.

Software support

We offer our maintenance contract customers priority support for software issues. Support is invoiced for every half-hour started.

24-hour service

We offer our maintenance contract customers a guaranteed response time of 24 hours (Monday to Friday from 8:00 to 17:00, except on public holidays).

Retrofit upgrade

Only we offer you the opportunity to update your unit to the state-of-the-art. It is crucial to stay up to date especially with fast-moving control technology. The progressive discount rate based on spare parts service and the benefits of a maintenance contract naturally also apply here.

Calibration and certification of KELCH measuring equipment

We calibrate and certify your KELCH measuring equipment in-house, such as measuring gauges, test arbors and force sensing bars. Optional: If you do not want to deal with this yourself, we can take responsibility for it with a calibration contract.



KELCH Service

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

KELCH is well-known in the industry for its excellent advice and its service is in no way inferior to this. The only slight difference is that we also like to call our service "Support". This is due to the fact that we look after our customers from the very outset – from the purchase through to service and maintenance. For our customers this means that they are in good hands at all times because we know how important good service is.



The KELCH seal provides increased certainty with all KELCH devices. This seal assures you at all times that you are receiving the best, most professional service for all your KELCH equipment. We guarantee absolute quality and offer maintenance contracts combined with interesting bonus programs and discounts. Benefit from KELCH service and only trust the original.

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