

SAFECONTROL 4.0

Control is good –
Measuring with Kelch is better!

KELCH

Pioneer for precision and efficiency

The benefits:

- Digital measuring system to measure the pull force of machine tool spindles as well as extensions, reducers and zero point clamping systems
- for quality assurance, process reliability and operating safety in production
- Data transfer via USB or Bluetooth (free app for tablets and PCs)
- Excellent measuring accuracy (0.5 % of the upper range value)
- Wide measuring range (0-100 kN)
- One base unit fits all adapters (HSK, PSC und SK)
- Only the base device requires recalibration
- Measured values appear on a display with position orientation integrated in the handle
- The base unit and adapters are compatible with each other and interchangeable.
- Calibration and repair service



Base unit and accessories

| Item No. | Safecontrol 4.0 | Item No. | Adapter |
|----------|---|----------|---------|
| 309.300 | Safecontrol 4.0 Base unit | 309.311 | SK 30 |
| | | 309.312 | SK 40 |
| | | 309.315 | BT 40 |
| | | 309.316 | SK 45 |
| | | 309.313 | SK 50 |
| | | 309.314 | SK 60 |
| Item No. | Case* | 309.331 | HSK 25 |
| 309.301 | SK 40/50 HSK 50/63/100 PSC 50/63/80 | 309.332 | HSK 32 |
| | | 309.333 | HSK 40 |
| | | 309.334 | HSK 50 |
| 309.302 | SK 30 HSK 25/32/40/80 PSC 32/40/100 | 309.335 | HSK 63 |
| | | 309.336 | HSK 80 |
| | | 309.337 | HSK 100 |
| | | 309.338 | HSK 125 |
| | | 309.322 | PSC 32 |
| 309.303 | SK 30/40/50 | 309.323 | PSC 40 |
| 309.304 | HSK 25 bis 100 | 309.324 | PSC 50 |
| 309.305 | PSC 32 bis 100 | 309.325 | PSC 63 |
| 309.306 | SK 45/60 HSK125 | 309.326 | PSC 80 |
| | | 309.327 | PSC 100 |



Pictures similar to product



See reverse side for scope of delivery.
*Other cases are available on request.

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Ready for Industry 4.0

A unique feature of Safecontrol 4.0 is the addition of a tablet solution with software that communicates with the force sensing bar via Bluetooth.

THE PRINCIPLE

Use the two buttons located in the handle of the Safecontrol 4.0: Power On/Off and Save/Delete.

The spindles to be measured are uniquely identified using a QR code. The system then measures the pull force and assigns the measured value immediately to the right machine spindle in the database.

Other test functions are also integrated for Industry 4.0. The machine spindles are thus fully automatically included in separate statistics, ensuring for 100% process reliability.

Factories can also help to prevent machine damage and consequential costs with Safecontrol 4.0.



SAFECONTROL 4.0 SOFTWARE / APP

- Simple-to-use app for mobile devices for identification and assignment of the machine spindles by means of processreliable QR code
- Bluetooth link to the base unit
- Live transmission and display of the measured value to the mobile device
- Management of machine spindles
- Display of the force measured as a CSV file and line diagram.
- Printout of the measured results as a tamper-proof PDF document (for spindle repair service).
- Displays the serial number and calibration interval at the start, informing the operator when Safecontrol 4.0 needs to be recalibrated.

SCOPE OF DELIVERY

- 1 base unit without case and tablet*
- USB cable
- Functional description and test certificate

* The tablet needs to be purchased separately from the Safecontrol 4.0 – alternatively you can use your own Android tablet. The app is only available for Android (version 6.0.1 and later).



Base unit / Technical data

| | |
|---|--|
| Dimensions (WxHxD) | 65 x 200 x 65 mm |
| Weight | 1,6 kg |
| Power supply | 4,75 - 5,25 V DC, 500 mA |
| Operating time | 24 hours continuous operation |
| Readout unit | Integrated LCD TFT display, LED background lighting and position orientation |
| Internal memory | for up to 1000 measurements with date and time stamp for simple documentation |
| Measuring accuracy | 0,5 % of the upper range value |
| Measuring range | 0-100 kN |
| Protection class | IP 64 |
| Mini-USB port | for battery charging and data transmission |
| Screw thread | for easy and fast assembly of the tapered adapter |
| Tapered adapter (others on request) | SK 30 / 40 / 50 HSK 25 / 32 / 40 / 50 / 63 / 80 / 100 PSC 32 / 40 / 50 / 63 / 80 / 100 |