

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

Display with position orientation integrated



Pictures similar to product

One base unit fits all adapters: HSK, PSC, SK



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