

Control is good -Measuring with Kelch is better!

Digital measuring system to measure the pull force of machine tool spindles as well as extensions, reducers and zero point clamping systems.

VerkstadsTeknik

The benefits:

- Easy-to-operate and robust base unit
- Measured values appear on a display with position orientation integrated in the handle - for improved legibility and identification of the spindle being measured
- App for 100% process reliability
- Fast, smooth and reliable measurement immediately after clamping into the machine spindle
- 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)
- Data is displayed on a tablet or PC via Bluetooth
- Calibration and repair service



Safecontrol 4.0 – an important component for quality assurance, and for process reliability and operating safety in production!

Safecontrol 4.0 helps to safeguard the service life of components and machine tools. The electronic measuring system also prevents greater tool and machine wear. Other benefits include guaranteed machining quality and accuracy, reduced reject rates and down time and improved operating safety and process reliability.

You're buying a cost-effective measuring system with Safecontrol 4.0	ltem no.	Measuring adapter	ltem no.	Measuring adapter	ltem no.	Measuring adapter
	309.311	SK 30	309.322	PSC 32	309.331	HSK 25
	309.312	SK 40	309.323	PSC 40	309.332	HSK 32
• You need only one base unit for all taper interfaces	309.315	BT 40	309.324	PSC 50	309.333	HSK 40
	309.316	SK 45	309.325	PSC 63	309.334	HSK 50
and machines with a clamping force of 0-100 kN.	309.313	SK 50	309.326	PSC 80	309.335	HSK 63
 The adapters are inexpensive to procure and 	309.314	SK 60	309.327	PSC 100	309.336	HSK 80
manage.					309.337	HSK 100
 Only the base unit needs to be recalibrated – 	Item no.	Case for base ur	nit and meas	uring adapter*2	309.338	HSK 125
not each individual adapter.	309.301	SK 40/50 HSK	x 50/63/100	PSC 50/63/80		
 The base unit and adapters are compatible with 	309.302	SK 30 HSK 25/32/40/80 PSC 32/40/100			Item no.	Safecontrol 4.0
each other and interchangeable.	309.303	9	SK 30/40/50		309.300	Base unit*1
 Permanently free app for your tablet or PC. 	309.304	HSK 25 up to 100				
	309.305	PSC 32 up to 100				
 *1 See reverse side for scope of delivery. *2 Other cases are available on request. 		SK 45 / SK 60 HSK 125				

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Safecontrol 4.0

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Ready for Industrie 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:

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. This innovation means that incorrect mapping of results is now a thing of the past.

Other test functions are also integrated for Industry 4.0. The machine spindles are thus fully automatically included in separate statistics, ensuring that the operator can promptly identify any trends indicating when spindle pull force is declining.

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

Technical data (base unit):

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
Operation:	2 soft keys in the handle,
1	On/Off and Save/Delete
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 to read out
	the measured values
Screw thread:	for easy and fast assembly of the
	tapered adapter
Tapered adapter:	available in the following sizes (oth-
	ers on request)
	SK 30 / 40 / BT 40 / 45 / 50 / 60
	HSK 25/32/40/50/63/80/100/125
	PSC 32 / 40 / 50 / 63 / 80 / 100
	1 30 327 407 307 037 007 100



Software/App:

- Simple-to-use app for mobile devices for identification and assignment of the machine spindles by means of process-reliable 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*3
- USB cable
- Functional description and test certificate
- ***3** 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).