HIGH CLAMPING FORCE.
HIGH MACHINE AVAILABILITY.
WITH POWER-CHECK 2 AND POWER-CHECK MICRO.

LONG-LIFE
CLAMPING
TECHNOLOGY
INSIDE

OTT JAKOB
Spanntechnik

POWER-CHECK 2
& POWER-CHECK MICRO

WITH LATEST ELECTRONIC ON THE SAFE SIDE

Tool clamping systems are subjected to high mechanical stress. Over time, this leads to a decreased tool clamping force. If this falls below a predefined threshold unnoticed, there is a risk of production rejects or even machine downtime.

POWER-CHECK 2

The Power-Check 2 from OTT-JAKOB detects changes in the pull-in force before disruptions occur in the production process. By using the measuring device regularly, you avoid rejects and also benefit from consistently precise machining results.

FEATURES

PROTECTION CLASS IP67

- Three base units with different measuring range available
- Largest selection of interchangeable adapters for all common taper standards (exclusively also for KM™ and KM4X™)
- Simulation of tool tolerances via an adjustable sleeve
- Automatic mode for self-activation during the tool change process
- Energy-saving mode for an extended battery life
- Compatible with clamping systems from all manufacturers
- Memory with capacity for 4,000 individual measurements
- LED display for measurement data

POWER-CHECK MICRO

The new HSK EZ15, E16 and E20 interfaces require a particularly precise device for measuring the pull-in force. That is why we have developed the compact Power-Check Micro specfically for these small interfaces. The measured values are sent wirelessly to a computer via the USB radio stick supplied.

FEATURES

- Measuring range 0-5 kN
- 3 exchangeable adapters available for HSK EZ15, E16 and E20
- Simulation of tool tolerances via an adjustable sleeve
- Easy battery change with 2 standard coin cells
- Compatible with clamping systems from all manufacturers

ADJUSTABLE SLEEVE

Common pull-in force measuring devices determine the pull-in force on the basis of the nominal dimension of the components. With the adjustable sleeve of Power-Check 2 and Power-Check Micro, additional production-related tolerances of the spindle and tool holder can be simulated easily and conveniently.

With the help of the adjustment sleeve, Power-Check 2 and Power-Check Micro serves as a substitute for "min/max" tools. In this way, switching points for position sensing can be set easily and cost-effectively.

RECEIVERS FOR POWER-CHECK 2 & MICRO

Get more out of your Power-Check and adapt the measuring device optimally to your needs. Our different receiver units facilitate data transmission and evaluation with Power-Check 2 and Power-Check Mirco. Both when using one measuring device or several Power-Checks at the same time.

USB-RADIO-STICK*

Small package with great (receiving) power: The USB radio stick receives the values transmitted wirelessly by the Power-Check. To transfer measurement results to the PC, you no longer need to connect the Power-Check to the computer by cable. This saves time and makes handling easier.

HIGHLIGHTS OF THE USB-RADIO-STICK

- Graphical representation of the data in real time via the PC software
- Up to 30 metres range

BUS-ANTENNE RS485*

With the RS485 BUS antenna, the Power-Check can be easily connected to the machine control system. The interface receives the measured values sent by the Power-Check and processes them automatically.

HIGHLIGHTS OF THE BUS-ANTENNE RS485

- Analogue and digital outputs configurable
- Protected against dust and water according to IP 67
- IO-Link version available

SOFTWARE

Evaluate and manage measured values easily: with the PC software you can keep track of the pull-in forces determined by the Power-Check. In addition, various settings (e.g. sleeve position, cycle time for continuous measuring mode) can be made on the basic unit of the Power-Check 2 via the software.

VARIANTS

	MEASURING RANGE	CONNECTING THREAD	ORDER NUMBER
BASIC DEVICE **POWER-CHECK 2**	0.5 – 5 kN	M16 x 1.5	9510313492
	2.5 – 20 kN	M16 x 1.5	9510313592
	10 – 75 kN	M16 x 1.5	9510313692
	25 - 200 kN	M35 x 1.5	9510313792
BASIC DEVICE **POWER-CHECK 2 + USB RADIO STICK**	0.5–5 kN	M16 × 1.5	9510313492V01
	2.5–20 kN	M16 × 1.5	9510313592V01
	10–75 kN	M16 × 1.5	9510313692V01
	25–200 kN	M35 × 1.5	9510313792V01
BASIC DEVICE **POWER-CHECK MICRO + USB RADIO STICK**	0 - 5 kN	M8 x 0.5	9526004051

*Available in EU, USA and Japan.

ADAPTER

Together with the right adapters, Power-Check 2 and Power-Check Micro cover every common interface and standard. Choose from a variety of adapters for SK, HSK, PSC, TS (KM™) and KM4X™. We also offer many adapters in two versions: for manual and automatic operation (with V-Flange).

Adapter **SK**

ADAPTER			For manual operation	For automatic operation	Micro	5 kN	20 kN	75 kN	200 kN
STANDARD			Order number	Order number					
SK30	M16 X 1.5	DIN 69871/69872 ISO 7388-1/3 A (2007)	9510158292	9510331032			●	○	
		ANSI B5.50 ISO 7388-1/3 U (2007)	9510158392	9510331132			●	○	
		MAS 403-30° ISO 7388-2/3 J 30° (2007)	9510158592	9510331332			●	○	
		MAS 403-45° ISO 7388-2/3 J 45° (2007)	9510158492	9510331232			●	○	
SK40	M16 X 1.5	DIN 69871/69872 ISO 7388-1/3 A (2007)	9510158692	9510323732			●	○	
		ANSI B5.50 ISO 7388-1/3 U (2007)	9510158792	9510323832			●	○	
		MAS 403-30° ISO 7388-2/3 J 30° (2007)	9510158992	9510324032			●	○	
		MAS 403-45° ISO 7388-2/3 J 45° (2007)	9510158892	9510323932			●	○	
		MAS 403-0° ISO 7388-2/3 J 0° (2007)	9510169492				●	○	
SK50	M16 X 1.5	DIN 69871/69872 ISO 7388-1/3 A (2007)	9510159492	9510309792				●	
		ANSI B5.50 ISO 7388-1/3 U (2007)	9510159592	9510324132				●	
		MAS 403-30° ISO 7388-2/3 J 30° (2007)	9510159792	9510324332				●	
		MAS 403-45° ISO 7388-2/3 J 45° (2007)	9510159692	9510324232				●	
		MAS 403-0° ISO 7388-2/3 J 0° (2007)	9510166292					●	
SK60	M16 X 1.5	DIN 69871/69872 ISO 7388-1/3 A (2007)	9510159892					●	
		ANSI B5.50 ISO 7388-1/3 U (2007)	9510159992					●	
		MAS 403-30° ISO 7388-2/3 J 30° (2007)	9510160292					●	
		MAS 403-45° ISO 7388-2/3 J 45° (2007)	9510160192					●	
	M35 X 1.5	DIN 69871/69872 ISO 7388-1/3 A (2007)	9526004353						●
		ANSI B5.50 ISO 7388-1/3 U (2007)	9526004354						●
		MAS 403-30° ISO 7388-2/3 J 30° (2007)	9526004356						●
		MAS 403-45° ISO 7388-2/3 J 45° (2007)	9526004355						●

● : recommended
○ : possible


SK 30


SK 40


SK 45


SK 50

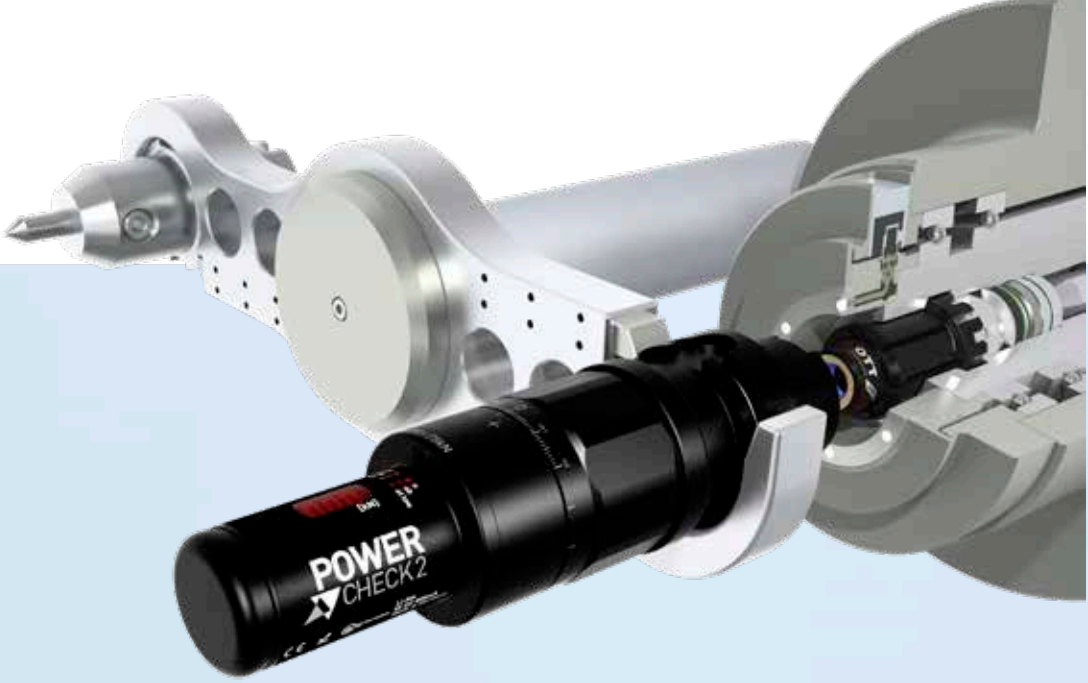

SK 60

Adapter **HSK, PSC, TS (KM™), KM4X™**

ADAPTER		For manual operation	For automatic operation	Micro	5 kN	20 kN	75 kN	200 kN
STANDARD		Order number	Order number					
HSK	M8 X 0.5	EZ 15	9526003902	●				
		E 16	9526003665	●				
		E 20	9526003961	●				
	M16 X 1.5	E 20	9560167292		●			
		E 25	9560006992		●			
		A 32 / E 32 B 40	9560007092			●		
			on request			●		
		A 40 / E 40 B 50 / F 50	9560007192			●	○	
			on request			●	○	
		A 50 / E 50 B 63 / F 63	9560007292			●	○	
			on request			●	○	
		A 63 / E 63 B 80 / F 80	9560007392				●	
			on request				●	
		A 80 B 100	9560007492				●	
			on request				●	
		A 100 B 125	9560007592				●	
			on request				●	
		A 125 / B 160	9560007692				●	
	M35 X 1.5	A 100 / B 125	9560232732					●
		A 125 B 160	9560232832					●
			on request					
		A 160	9560273132					●
PSC Capto™	M16 X 1.5	C3 ISO / PSC 32	9560228292			●	○	
		C4 ISO / PSC 40	9560148192				●	
		C5 ISO / PSC 50	9560148292				●	
		C6 ISO / PSC 63	9560126692				●	
		C8 ISO / PSC 80	9560148392				●	
	M35 X 1.5	C10 ISO / PSC 100	9560292132					●
TS (KM™)	M16 X 1,5	KM 32 ISO	9560317932			●	○	
		KM 40 ISO	9560219192				●	
		KM 50 ISO	9560174192	9560286332			●	
		KM 63 ISO	9560172492	9560271132			●	
		KM 80 ISO	9560174292	9560297432			●	
	M35 X 1.5	KM 100 ISO	9560247792					●
KM4X™	M16 X 1.5	KM4X 63	9560300532				●	
	M35 X 1.5	KM4X 100	9560257332					●
		KM4X 125	9560315132					●

● : recommended
○ : possible

FAQS



WHY ARE THE BASIC UNITS OF THE POWER-CHECK AVAILABLE IN DIFFERENT VERSIONS?

The basic units cover different measuring ranges. This means that Power-Check 2 and Power-Check Micro are precisely matched to the intended pull-in forces.

WHERE CAN I GET THE PC SOFTWARE FOR THE POWER-CHECK?

You can obtain the software for managing and evaluating the Power-Check measured values free of charge from the OTT-JAKOB Infothek at infothek.ott-jakob.de.

DO I HAVE TO MAINTAIN THE POWER-CHECK 2 REGULARLY?

We recommend having the Power-Check 2 checked once a year by our service department and recalibrated if necessary. These regular checks will ensure the highest measurement accuracy for many years.

HOW ACCURATE IS THE POWER-CHECK 2?

The maximum tolerance of the Power-Check 2 is +/- 1% related to the final value, that of the Power-Check Micro is +/- 2%. Thanks to the subdivision into five different basic units, optimum accuracy can be achieved for each interface. In practice, however, it is even more important to recognise a trend of decreasing pull-in forces at an early stage in order to be able to react in time.

WHAT IS THE DIFFERENCE BETWEEN MANUAL AND AUTOMATIC OPERATION?

In manual operation, you hold the Power-Check 2 in your hand during the changeover. The measured value can be read immediately on the integrated LED display and saved. In addition, after the measurement, all stored values can be read out via the associated PC software.

In automatic mode, the Power-Check 2 can also be used from the tool magazine - thanks to the powerful rechargeable battery, for up to two months without having to recharge (corresponds to about 600 measurements). As soon as the Power-Check is moved, it immediately switches from stand-by to ready and stores the corresponding clamping force in the event of a force being applied. Automatic operation is particularly suitable for large and hard-to-reach processing machines in heavy machining.

CAN I ALSO MEASURE SMALLER INTERFACES WITH A LARGER BASE UNIT?

Yes, this is possible in principle, but may be at the expense of accuracy. The tables on pages 4 and 5 show possible combinations.

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