

Kistler Calibration Service

Type 9961...

Calibration >5 kN·m up to 100 kN·m

The highest precision of measurement in your process has the highest priority for us. Basics for precise and reliable measurement results is the calibration. To ensure the measurement precision of Kistler sensors and devices lifelong and to fulfill quality assurance criteria as well as product liability acts recalibration at regular intervals is recommended (the cycle varies depending on the device between 1 and 2 years). The world-wide availability of Kistler calibration services allows a fast procedure. A calibration certificate guarantees the availability for use and the traceability on national and international standards.

Continuous investments in the expansion of the calibration laboratory cares up to nowadays for highest precision and best possible fulfillment of growing customer requirements

- Accredited according to ISO 17025
- Accredited by the German Authority of Accreditation GmbH (DAkKS)

Our calibration service D-K-15127-02-00 offers traceable calibrations for torque sensors of all manufacturers.

Best possible measuring uncertainty of the machine:

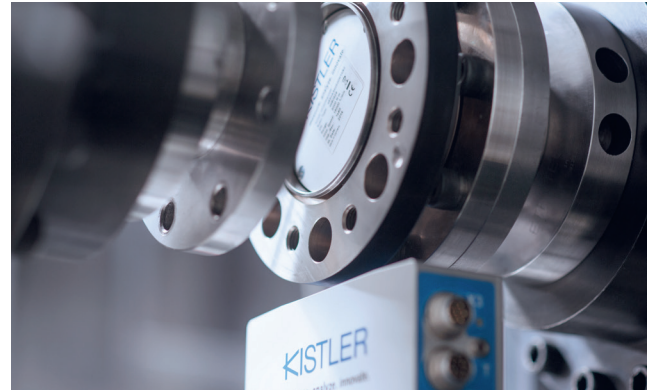
- 1 kN·m – 20 kN·m: $\pm 0.05\%$ of measurement value
- > 20 kN·m – 100 kN·m: $\pm 0.1\%$ of measurement value

Definition of Calibration Terms:

WKS 1: Works calibration at 5 points right, 3 points left

WKS 2: Works calibration at 5 points right and left, and repeat series

DAkKS: Calibration per DIN 51309



Maximum Dimensions for the Calibration Device:

Maximum Diameter Sensor:	Ø 550 mm
Length:	l min. 200 mm to max. 800 mm
Max. Weight:	1,000 kg

Shaft Ends for ETP Hyloc:

ETP TECHNO 110	
Shaft Diameter (d)	110 mm h7
Shaft Length (L)	153 mm (ISO 2768-mH)

ETP TECHNO 180	
Shaft Diameter (d)	180 mm h7
Shaft Length (L)	210 mm (ISO 2768-mH)

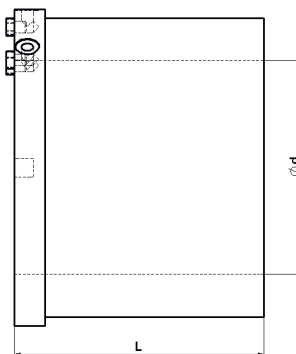
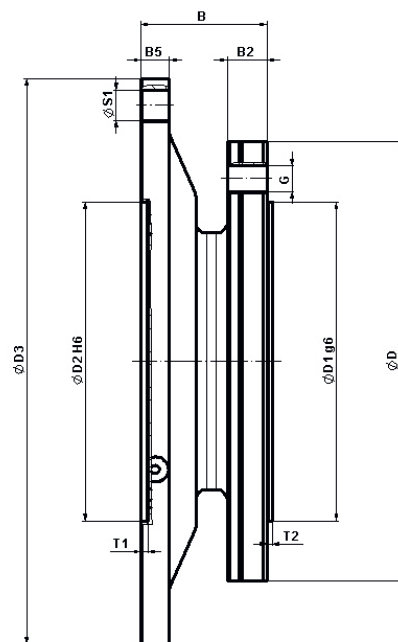
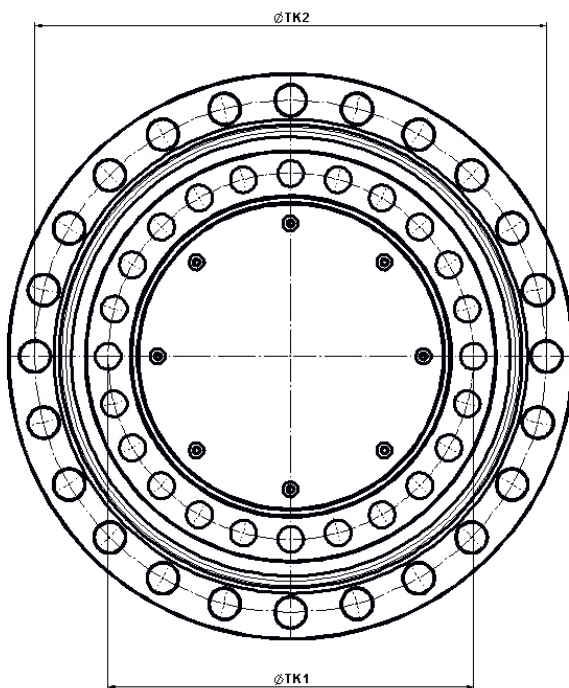


Figure 1:

BGR	BGR 1			BGR 2			BGR 3			BGR 4	
	15	20	25	30	40	50	60	70	80	90	100
M_{nom} in kN·m											
$\varnothing D$	251			300			330			342	
$\varnothing D3$	326			390			425			432	
$\varnothing TK1$	206			250			275			285	
$\varnothing TK2$	288			350			385			392	
$\varnothing D1g6$	174			210			240			240	
$\varnothing D2H6$	174			210			240			240	
B	73			85			95			100	
B2	25			25			30			30	
B5	15			18,5			21,5			23	
T1	5,2			5,2			5,2			5,7	
T2	3			4			4			4	
$\varnothing S1$	16x D19			24x D21,5			24x D23			24x D25	
G	16x M18			24x M20			24x M22			24x M24	



If the above listed calibration adapters cannot be used, adaptations must be supplied by the customer. Customer specific adapters can be manufactured if required. Storage must be on customers site.

Ordering key

9961	T-AC (DakKS)	R1 (Single range)	03 (3 Measuring points)	12 (> 5 kN·m to 100 kN·m)	
				15 (> 20 kN·m to 100 kN·m)	
			05 (5 Measuring points)	12 (> 5 kN·m to 100 kN·m)	
				15 (> 20 kN·m to 100 kN·m)	
			R2 (Dual range 1:1 and 1:5)	03 (3 Measuring points)	16 (> 25 kN·m to 100 kN·m)
				05 (5 Measuring points)	
		R2 (Dual range 1:1 and 1:10)	03 (3 Measuring points)	16 (> 25 kN·m to 100 kN·m)	
			05 (5 Measuring points)		
		T1-SC (WKS 1)	R1 (Single range)	12 (> 5 kN·m to 100 kN·m)	
	15 (> 20 kN·m to 100 kN·m)				
	R2 (Dual range 1:1 and 1:5)		13 (> 10 kN·m to 100 kN·m)		
			15 (> 20 kN·m to 100 kN·m)		
	R2 (Dual range 1:1 and 1:10)		14 (20 kN·m)		
			15 (> 20 kN·m to 100 kN·m)		
	T2-SC (WKS 2)		R1 (Single range)	12 (> 5 kN·m to 100 kN·m)	
				15 (> 20 kN·m to 100 kN·m)	
			R2 (Dual range 1:1 and 1:5)	13 (> 10 kN·m to 100 kN·m)	
		15 (> 20 kN·m to 100 kN·m)			
		R2 (Dual range 1:1 and 1:10)	14 (20 kN·m)		
			15 (> 20 kN·m to 100 kN·m)		

A single range sensor has only one measuring range, Mnom. A dual range sensor has a second separate measuring range which can be changed over. The sensor will then be calibrated on both ranges.

Ordering Example

Ordering Example	Type
DakKS Calibration	9961T-AC
Single Range Calibration	R1
25 kN·m Sensor	15
→ 9961T-AC-R1-15	

9961_003-470d-09.19