

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-K-17572-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 26.09.2023

Date of issue: 26.09.2023

This annex is a part of the accreditation certificate D-K-17572-01-00.

Holder of partial accreditation certificate:

Kistler Remscheid GmbH Kölner Straße 71, 42897 Remscheid

The calibration laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The calibration laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and conform generally with the principles of DIN EN ISO 9001.

Calibrations in the fields:

Mechanical quantities

- Torque^{a)}
- Force

^{a)} also on-site calibrations

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.



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Within the scope of accreditation marked with *), the calibration laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use calibration standards or equivalent calibration procedures listed here with different issue dates.

The calibration laboratory maintains a current list of all calibration standards / equivalent calibration procedures within the flexible scope of accreditation.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

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Measurement quantity / Calibration item	F	lange	2	Measurement conditions / procedure	Expanded uncertainty of measurement ¹	Remarks					
Torque Torque transducers and torque measuring instruments *	0.01 N·m	to	< 0.1 N·m	DIN 51309:2022 DKD-R 10-5:2020	0.40 %						
	0.1 N·m	to	< 1 N·m		0.10 %						
	1 N·m	to	1 kN∙m		0.01 %						
	> 1 kN∙m	to	2 kN∙m		0.10 %						
	> 2 kN∙m	to	20 kN∙m		0.20 %						
Torque transfer wrenches *	0.1 N∙m	to	< 1 N·m	DKD-R 3-7:2018	0.10 %						
	1 N·m	to	1 kN∙m		0.02 %						
Calibration devices for torque wrenches *	0.2 N·m	to	< 2 N∙m	DKD-R 10-8:2020	0.20 %						
	2 N·m	to	3 kN∙m		0.10 %						
Hand-operated torque assembly tools *	0.01 N·m	to	< 1 N·m	DIN EN ISO 6789-2: 2017	0.50 %						
	1 N∙m	to	< 5 N∙m		0.40 %						
	5 N∙m	to	1.5 kN∙m		0.20 %						
Force * Force transducers and force measuring instruments	2 kN	to	500 kN	DKD-R 3-3:2018	0.2 %	only procedure A, only compressive force					

On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range			Measurement conditions / procedure	Expanded uncertainty of measurement ¹	Remarks
Torque Torque measuring instruments *	0.2 N·m	to	1 kN∙m	DIN 51309:2022 DKD-R 10-5:2020	0.2 %	using customer loading equipment
	200 N∙m	to	60 kN∙m	CD73058-DE V1.0, 24.02.2023	0.5 %	
Calibration devices for	0.2 N·m	to	< 2 N∙m	DKD-R 10-8:2020	0.2 %	for any position on the
torque wrenches *	2 N·m	to	3 kN∙m		0.1 %	measuring axis

¹ Unless otherwise indicated, the unit for the variables corresponds to the unit for the measurement range.



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Abbreviations used:

- CMC Calibration and measurement capabilities
- CD internal calibration procedure of Kistler Remscheid GmbH
- DIN Deutsches Institut für Normung e.V. – German institute for standardization
- DKD-R Calibration Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt (PTB)

¹ Unless otherwise indicated, the unit for the variables corresponds to the unit for the measurement range. Valid from: 26.09.2023 Date of issue: 26.09.2023 This document is a translation. The definitive version is the original German annex to the accreditation certificate.