

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-21259-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 28.03.2023Date of issue: 28.03.2023

Holder of accreditation certificate:

DrehmomentService Dr. Peschel GmbH & Co. KG Hainwaldweg 2, 31228 Peine

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 confirm generally with the principles of DIN EN ISO 9001.

Calibration in the fields:

Mechanical quantities

Torque ^{a)}

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.

Abbreviations used: see last page Page 1 of 3

a) also on-site calibration



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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range			Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Torque						
Torque transducer, torque measurement chains*	1 mN·m	to	< 10 mN·m	DIN 51309:2022 DKD-R 10-5:2020 EURAMET cg-14 version 2.0	2 · 10 ⁻³	
	10 mN·m	to	< 100 mN·m		1 · 10-3	
	0.1 N·m	to	< 1 N·m		4 · 10-4	
	1 N·m	to	20 kN·m		2 · 10-4	
Torque transfer wrenches*	0.1 N·m	to	< 1 N·m	DKD-R 3-7:2018	4 · 10-4	
	1 N·m	to	3 kN·m		2 · 10-4	
Hydraulic wrenches	100 N·m	to	8 kN·m	DmS-VA06:2022	5 · 10 ⁻³	only upward series with variation of piston position
	> 8 kN·m	to	150 kN·m		1 · 10-2	
Torque reproducer			150 kN·m	DmS-VA05:2022	5 · 10·³	only upward series , continuous measurement
	100 N·m	to		DmS-VA07:2022		only upward series with customer owned tools
Calibration devices for torque assembly tools*	1 mN·m	to	< 10 mN·m	DIN 51309:2022	4 · 10 ⁻³	
	10 mN·m	to	20 N·m		2 · 10 ⁻³	
Calibration devices for torque wrenches*	0.1 N·m	to	3 kN·m	DKD-R 10-8:2020	4 · 10-4	

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On-Site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	F	Rang	e	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Torque						
Calibration devices for torque assembly tools*	1 mN·m	to	< 0.1 N·m	DIN 51309:2022	4 · 10 ⁻³	
	0.1 N·m	to	20 N·m		2 · 10 ⁻³	
Calibration devices for torque wrenches*	0.1 N·m	to	3 kN·m	DKD-R 10-8:2020	8 · 10-4	
Calibration devices for torque transducer, torque measurement chains*	1 mN·m	to	< 10 mN·m	DIN 51309:2022	4 · 10 ⁻³	
	10 mN·m	to	< 0.1 N·m		2 · 10 ⁻³	
	0.1 N·m	to	< 1 N·m		8 · 10-4	
	1 N·m	to	20 kN·m		4 · 10-4	
	> 20 kN·m	to	150 kN·m		1.5 · 10 ⁻³	
Torque transducer, torque measurement chains*	1 mN·m	to	< 10 mN·m	DIN 51309:2022 DKD-R 10-5:2020 EURAMET cg-14, version 2.0	4 · 10 ⁻³	
	10 mN·m	to	< 0.1 N·m		2 · 10 ⁻³	
	0.1 N·m	to	< 1 N·m		8 · 10-4	
	1 N·m	to	20 kN·m		4 · 10-4	by using loading systems of customer
	> 20 kN·m	to	150 kN·m		1.5 · 10 ⁻³	
Calibration devices for hydraulic wrenches	> 100 N·m	to	150 kN·m	DmS-VA08:2022	1.5 · 10 ⁻²	by using hydraulic wrenches of customer in defined piston position

Abbreviations used:

DIN German institute for standardization

DKD-R Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch Technische

Bundesanstalt

EURAMET European Association of National Metrology Institutes

DmS In house method of DrehmomentService Dr. Peschel GmbH & Co. KG

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