Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Industrial Technique Service s.r.o.

CAB number 2339, ITS Calibration Laboratory Průmyslová 1428/10, 102 00 Praha 10

Calibration laboratory locations:

2.

3.

Laboratory Průmyslová 1. Laboratory CSW

Průmyslová 1428/10, 102 00 Praha 10, Česká republika Rózyniec 83C, 59-706 Gromadka, Polsko

V Parku 2336/22, 140 00 Praha 4, Česká republika Laboratory Chodov

CMC for the field of measured quantity: Torque

Ord. number ¹	Calibrated quantity /		Nom	inal ra	inge		Parameter(s) of the	Lowest stated expanded measurement	Calibration principle	Calibration procedure identification ³	Location
	Subject of calibration	min	unit		max	unit	measurand	uncertainty ²			
1	Rotary and static transducers and devices for measuring torque	0.05	Nm	to	12 1	Nm		0.04 %	Comparative measurement with standard torque device using weights and reaction arms	ITS-04-11-S, ITS-09-11-LSP (EURAMET cg-14)	1
	1	1.5		to	2,000 1	Nm		0.02 %			
2*	Rotary and static transducers and devices for measuring torque	0.05	Nm	to	500 1	Nm		0.20 %	Direct measurement with a portable torque standard (torque transducer)	ITS-04-11-S, ITS-09-11-LSP (EURAMET cg-14)	1
3*	Rotary and static transducers and devices for measuring torque	0.2	Nm	to	3,000 1	Nm		0.20 %	Direct measurement with a portable torque standard (torque transducer)	ITS-04-11-S, ITS-09-11-LSP (EURAMET cg-14)	2, 3
4*	Torque wrenches, tightening devices and tightening systems	0.05	Nm	to	0.4 1	Nm		0.60 %	Direct measurement with a portable torque standard (torque transducer)	ITS-01-11-U, ITS-02-11-V, ITS-03-11-VM, ITS-05-11-K, ITS-06-11-UC, ITS-07-11-VC, ITS-08-11-VMC (EN ISO 6789-2, ISO 5393)	1, 3
			Nm Nm	to to	0.4 I 2,000 I			0.60 %		ISO 5393)	

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Ord. number ¹	Calibrated quantity /		Nomina	l range		Parameter(s) of the measurand	Lowest stated expanded measurement	Calibration principle	Calibration procedure	Location
	Subject of calibration	min v	unit	max	unit		uncertainty ²		identification ³	
	Tightening devices and tightening systems	0.05 N 2 N 2,000 N	m to	2,00	2 Nm)0 Nm)0 Nm				ITS-01-11-U, ITS-02-11-V, ITS-03-11-VM, ITS-06-11-UC, ITS-07-11-VC, ITS-08-11-VMC (EN ISO 6789-2, ISO 5393)	2
6	Torque wrenches	0.05 N 2 N			2 Nm 00 Nm			Direct measurement with a portable torque standard (torque transducer)	ITS-05-11-K (EN ISO 6789-2)	2

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

³ If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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Průmyslová 1428/10, 102 00 Praha 10

CMC for the field of measured quantity: Rotation angle

Ord.	Calibrated quantity / Subject of		Nomin	al range		Parameter(s) of the	Lowest stated expanded measurement uncertainty ²		Calibration procedure identification ³	Location
number ¹	calibration	min	unit	max	unit	measurand		Calibration principle		
1*	Rotation angle of hand torque tools and angle gauges	0	° ti	o n·360	0		1.0°	Measurement with a rotation angle transducer	ITS-10-14-AV/C (VDI/VDE 2648 Part 1), ITS-12-14-AK (VDI/VDE 2648 Part 2)	1, 3
2	Rotation angle of hand torque tools and angle gauges	0	° ti	o n·360	0		0.55°	Measurement with a rotation angle transducer	ITS-13-14-LAK ITS-12-14-AK (VDI/VDE 2648 Part 2)	1
3	Rotation angle of hand torque tools and angle gauges	0	° t	o n·360	0		0.90°	Measurement with a rotation angle transducer	ITS-13-14-LAK, ITS-12-14-AK (VDI/VDE 2648 Part 2)	2
4*	Rotation angle of hand torque tools and angle gauges	0	° t	o n·360	0		1.0°	Measurement with a rotation angle transducer	ITS-10-14-AV/C, (VDI/VDE 2648 Part 1)	2
5*	Rotation angle of transducers and angle gauges	0	° t	o n·360	0		0.10°	Measurement with a rotation angle transducer	ITS-11-14-AS (VDI/VDE 2648 Part 1)	1, 2

Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

2 The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

3 If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "