

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Partial Accreditation Certificate** that

Atlas Copco Tools Central Europe GmbH
Langemarckstraße 35, 45141 Essen

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the calibration laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This partial accreditation certificate only applies in connection with the notices of 05.10.2023 with accreditation number D-K-17447-01.
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 7 pages.

Registration number of the partial accreditation certificate: **D-K-17447-01-02**
It is a part of the accreditation certificate D-K-17447-01-00.

Berlin, 05.10.2023

Dipl.-Ing. Gabriel Zrenner
Head of Department

Translation issued:
05.10.2023

by proxy Tim Acs
Dipl.-Ing. Gabriel Zrenner
Head of Department

The certificate together with the annex 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 (www.dakks.de).

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The Deutsche Akkreditierungsstelle GmbH (DAkKS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkKS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkKS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-K-17447-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 05.10.2023

Date of issue: 05.10.2023

This annex is a part of the accreditation certificate D-K-17447-01-00.

Holder of partial accreditation certificate:

Atlas Copco Tools Central Europe GmbH

with its calibration laboratory

**Atlas Copco Tools Central Europe GmbH
Langemarckstraße 35, 45141 Essen**

and with further locations

Bayernwerkstraße 112, 84130 Dingolfing

and

**Atlas Copco Polska Sp. Z o.o.
Rozyniec 83C, 59-709 Gromadka, Polska**

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.

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

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Annex to the Partial Accreditation Certificate D-K-17447-01-02

Calibration in the fields:

Dimensional quantities

Angle

- **Angle of rotation** ^{a)}

Electrical quantities

DC and low frequency

- **Voltage ratio** ^{a)}

^{a)} also on-site-calibrations

Within the measurands/calibration items marked with 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.

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Annex to the Partial Accreditation Certificate D-K-17447-01-02

Permanent Laboratory location Essen

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation directly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.1:2009	10''	
indirectly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.2°	
spindel-fall-simulator for test of continuously rotating tools *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0,05° (3')	
spindel-fall-simulator for test of continuously rotating tools	0° to 360°	AC MMFU Winkel R1 2023	0,05° (3')	
Voltage ratio DMS- measuring amplifier and display units	± 0 mV/V to ± 2.5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	3·10 ⁻⁵ ; but not < 0.03 μV/V	
	± 0 mV/V to ± 5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	5·10 ⁻⁵ ; but not < 0.05 μV/V	
	± 0 mV/V to ± 2 mV/V	AC voltage: 5 V carrier frequency: 600 Hz	1·10 ⁻³ ; but not < 1 μV/V	
	± 0 mV/V to ± 2 mV/V	DC voltage: 5 V	1·10 ⁻³ ; but not < 1 μV/V	

On-site Calibration location Essen

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation directly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.1:2009	10''	
indirectly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.2°	
spindel-fall-simulator for test of continuously rotating tools *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0,05° (3')	
spindel-fall-simulator for test of continuously rotating tools	0° to 360°	AC MMFU Winkel R1 2023	0,05° (3')	

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On-site Calibration location Essen

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Voltage ratio DMS- measuring amplifier and display units	± 0 mV/V to ± 2.5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	$3 \cdot 10^{-5}$; but not $< 0.03 \mu\text{V/V}$	
	± 0 mV/V to ± 5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	$5 \cdot 10^{-5}$; but not $< 0.05 \mu\text{V/V}$	
	± 0 mV/V to ± 2 mV/V	AC voltage: 5 V carrier frequency: 600 Hz	$1 \cdot 10^{-3}$; but not $< 1 \mu\text{V/V}$	
	± 0 mV/V to ± 2 mV/V	DC voltage: 5 V	$1 \cdot 10^{-3}$; but not $< 1 \mu\text{V/V}$	

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Permanent Laboratory location Dingolfing

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation directly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.1:2009	2''	
indirectly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.2°	
spindel-fall-simulator for test of continuously rotating tools *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0,05° (3')	
spindel-fall-simulator for test of continuously rotating tools	0° to 360°	AC MMFU Winkel R1 2023	0,05° (3')	
Voltage ratio DMS- measuring amplifier and display units	± 0 mV/V to ± 2.5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	3·10 ⁻⁵ ; but not < 0.03 μV/V	
	± 0 mV/V to ± 5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	5·10 ⁻⁵ ; but not < 0.05 μV/V	
	± 0 mV/V to ± 2 mV/V	AC voltage: 5 V carrier frequency: 600 Hz	1·10 ⁻³ ; but not < 1 μV/V	
	± 0 mV/V to ± 2 mV/V	DC voltage: 5 V	1·10 ⁻³ ; but not < 1 μV/V	

On-site Calibration location Dingolfing

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation directly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.1:2009	3'	
indirectly angle of rotation transmitter *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.5°	
spindel-fall-simulator for test of continuously rotating tools *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0,05° (3')	
spindel-fall-simulator for test of continuously rotating tools	0° to 360°	AC MMFU Winkel R1 2023	0,05° (3')	

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On-site Calibration location Dingolfing

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Voltage ratio DMS- measuring amplifier and display units	± 0 mV/V to ± 2.5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	3·10 ⁻⁵ ; but not < 0.03 μV/V	
	± 0 mV/V to ± 5 mV/V	AC voltage: 5 V carrier frequency: 225 Hz	5·10 ⁻⁵ ; but not < 0.05 μV/V	
	± 0 mV/V to ± 2 mV/V	AC voltage: 5 V carrier frequency: 600 Hz	1·10 ⁻³ ; but not < 1 μV/V	
	± 0 mV/V to ± 2 mV/V	DC voltage: 5 V	1·10 ⁻³ ; but not < 1 μV/V	

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Permanent Laboratory location Gromadka (Polska)

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation direct angle of rotation transducer *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0,1°	
indirect angle of rotation transducer (wrench) *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.5°	
Voltage ratio DMS- measuring amplifier and display units	± 0 mV/V to ± 2 mV/V	DC voltage: 5 V carrier frequency: 0 Hz	1·10 ⁻³ ; but not < 1 μV/V	

On-site Calibration location Gromadka (Polska)

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
angle of rotation direct angle of rotation transducer *	0° to 360°	VDI/VDE 2648 Bl.1:2009	0.1°	
indirect angle of rotation transducer (wrench) *	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.5°	

Abbreviations used:

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DKD-R	Richtlinie des Deutschen Kalibrierdienstes (DKD), herausgegeben von der Physikalisch-Technischen Bundesanstalt
EURAMET	European Association of National Metrology Institutes
VDE	Verband der Elektrotechnik, Elektronik und Informationstechnik
VDI	Verein Deutscher Ingenieure

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