

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the calibration laboratory

E. ZOLLER GmbH & Co. KG Einstell- und Messgeräte
Gottlieb-Daimler-Straße 19, 74385 Pleidelsheim

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 they conform to 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 accreditation certificate only applies in connection with the notices of 30.09.2024 with accreditation number D-K-18994-01.

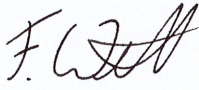
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the accreditation certificate: **D-K-18994-01-00**

Berlin, 30.09.2024

Dr. Florian Witt
Head of Technical Unit

Translation issued:
06.11.2024



Dr. Florian Witt
Head of Technical Unit

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

Annex to the Accreditation Certificate D-K-18994-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 30.09.2024

Date of issue: 30.09.2024

Holder of accreditation certificate:

**E. ZOLLER GmbH & Co. KG Einstell- und Messgeräte
Gottlieb-Daimler-Straße 19, 74385 Pleidelsheim**

with the location

**E. ZOLLER GmbH & Co. KG Einstell- und Messgeräte
Gottlieb-Daimler-Straße 19, 74385 Pleidelsheim**

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 they conform to the principles of DIN EN ISO 9001.

Calibrations in the fields:

Dimensional quantities

Coordinate measuring technology

- **Coordinate measuring machines ^{a)}**

^{a)} only as on-site calibration

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>.

Annex to the Accreditation Certificate D-K-18994-01-00

On-Site calibration

Calibration- and Measurement Capabilities (CMC)

Measurement quantity/ Calibration item	Range	Measurement conditions/procedure	Expanded uncertainty of measurement	Remarks
Coordinate measuring technology Optical two-dimensional coordinate measuring machines, optical 2D-pre- setting tools and 2D- measuring machines	0 mm to 909 mm	Calibration of metrological characteristics according to guideline: DKD-R 4.3 part 18.1:2018, and the following standards and guidelines DIN EN ISO 10360 VDI/VDE 2617		Measuring equipment with opto-electronical edge detection (image processing)
		Determination of probing error P_{FV2D} using a circle measurement standard according to DIN EN ISO 10360-7:2011	0,5 μm	
		Determination of length- measurement error E_{UX} , E_{UY} along the machine axes in X- and Y-direction using chrome-glass-panels according to DIN EN ISO 10360-7:2011	$0,5 \mu\text{m} + 1,0 \cdot 10^{-6} \cdot l$	
		Determination of length- measurement error E_{UXY} using chrome-glass-panels according to DIN EN ISO 10360-7:2011	$0,5 \mu\text{m} + 1,0 \cdot 10^{-6} \cdot l$	
		Determination of angle- measurement error A_{SV2D} using chrome-glass-panels	0,03 °	
		Determination of repeatability range of the length-measurement error R_U according to DIN EN ISO 10360-7:2011	0,06 μm	

Abbreviations used:

CMC	Calibration and measurement capabilities
DIN	Deutsches Institut für Normung e.V.
DKD-R	Richtlinie des Deutschen Kalibrierdienstes (DKD), issued by Physikalisch-Technische Bundesanstalt
VDE	Verband der Elektrotechnik, Elektronik und Informationstechnik
VDI	Verein Deutscher Ingenieure

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