

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-11267-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 15.07.2022

Date of issue: 15.07.2022

Holder of certificate:

Materialprüfanstalt für das Bauwesen (MPA BS)
Beethovenstraße 52, 38106 Braunschweig

Calibration in the fields:

Mechanical quantities

Material testing machines (MTM)

- **Force (MTM)** ^{a)}
- **Extension (MTM)** ^{b)}

^{a)} only On-site Calibrations

^{b)} also On-Site Calibrations

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.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

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 at <https://www.dakks.de/en/accredited-bodies-search.html>.

Abbreviations used: see last page

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

Annex to the accreditation certificate D-K-11267-01-00
Permanent Laboratory
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded measurement of uncertainty	Remarks
Extension (MTM) displacement transducer without indicator	0.1 mm to 200 mm	DIN EN ISO 9513: 2013-05	$3 \cdot 10^{-3} \cdot l$, but not smaller than 2 μm	Measuring principle: incremental l = measured extension

On-site Calibration
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded measurement of uncertainty	Remarks
Force (MTM) Force measuring device for Material Testing Machines according to DIN 51220:2003	4 kN to 500 kN	DIN EN ISO 7500-1:2018-06	0.12 %	Force transducer (Class 0.5) tensile
	4 kN to 5 MN	DIN EN ISO 7500-1 Sheet 1:2022-06 Sheet 2:2022-06 Sheet 3:1999-11 Sheet 4:2013-03 DIN 51302-2:2000-12 DIN EN 12390-4:2020-4	0.12 %	Force transducer (Class 0.5) compression
Extension (MTM) Length variation measuring device for Material Testing Machines according to DIN 51220:2003	0.1 mm to 200 mm	DIN EN ISO 9513: 2013-05	$1.5 \cdot 10^{-3} \cdot l$, but not smaller than 0.6 μm	Measuring principle: incremental l = measured extension

Abbreviations used:

CMC Calibration and measurement capabilities