

1. Goal and purpose

The description of the service offered includes a list of the CMMs used as part of the accreditation. Information about the manufacturer, type, measurement software used, measuring volume, limits for the specified performance characteristics (limits in accordance with the applicable VDI/VDE or ISO standards) and examples of the lowest possible uncertainties of measurement are to be documented.

2. Place of fulfilment

The service is provided solely in facilities on the Nürtingen site in Germany.

3. Description of the accredited activity

Implementation and documentation, as well as, if necessary, evaluation against specifications of dimensional inspections and 3D nominal-actual comparison against CAD data on prototypes, initial samples, pre-series and series parts using tactile 3D coordinate metrology with the option of a rotary table as a fourth axis and Zeiss Calypso measurement software.

<u>Note:</u> The masculine terms used in this document are not gender-specific. These terms are used for reasons of readability and simplicity; they do not imply exclusion or judgement.



4. Description of the service offered

СММ	Measuring range (max.) [mm]	Specification	Examples of extended uncertainty of measurement	Remarks
ZEISS Prismo 12/18/10	X= 1175 Y= 1762 Z= 979	E _{0, MPE} = 1.50 μm + 2.86 · 10 ⁻⁶ · 1 in acc. with DIN EN ISO 10360-2:2010-06 PForm.Sph.1×25:SS:Tact,MPE = 1.5 μm in acc. with DIN EN ISO 10360-5:2020-11 PForm.Sph.Scan:PP:Tact,MPE = 3.5 μm in acc. with DIN EN ISO 10360-5:2020-11 MPEFR: 4.50 μm MPEFT: 4.50 μm MPEFA: 3.50 μm in acc. with DIN EN ISO 10360-3:2000-08	Ø 100.0 mm U: 1.5 μm Dist. 200.0 mm U: 2.5 μm	I = length measured U = expanded uncertainty of measurement with $k = 2$ (corresponds to 95% probability within the range of values)
ZEISS Prismo 12/24/10	X= 978 Y=1956 Z= 815	E0, MPE = 1.50 μ m + 2.86 \cdot 10 ⁻⁶ \cdot 1 in acc. with DIN EN ISO 10360-2:2010-06 PForm.Sph.1×25:SS:Tact,MPE = 1.3 μ m in acc. with DIN EN ISO 10360- 5:2020-11 PForm.Sph.Scan:PP:Tact,MPE = 1.7 μ m in acc. with DIN EN ISO 10360-5:2020-11	Ø 100.0 mm U: 1.5 μm Dist. 200.0 mm U: 2.5 μm	 I = length measured U = expanded uncertainty of measurement with <i>k</i> = 2 (corresponds to 95% probability within the range of values)

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Services offered by the IMT department (DAkkS)

СММ	Measuring range (max.) [mm]	Specification	Examples of extended uncertainty of measurement	Remarks
ZEISS Prismo 7/9/7	X= 700 Y= 900 Z= 700	E0, MPE = $0.9 \mu m + 2.86 \cdot 10^{-6} \cdot 1$ in acc. with DIN EN ISO 10360-2:2010-06 PForm.Sph.1×25:SS:Tact,MPE = $1.0 \mu m$ in acc. with DIN EN ISO 10360-5:2020-11 PForm.Sph.Scan:PP:Tact,MPE = $1.7 \mu m$ in acc. with DIN EN ISO 10360-5:2020-11 MPEFR : $3.50 \mu m$ MPEFT : $3.50 \mu m$ MPEFA : $2.50 \mu m$ in acc. with DIN EN ISO 10360-3:2000-08	-	l = length measured

5. Terms / definitions / abbreviations

IMT CMM	= Industrial metrology = Coordinate measuring machine(s)		
AA FB	= Arbeitsanweisung (work instruction) = Formblatt (form)		
Ео, мре		= Length measuring error	
PForm.Sph.1×25:SS:Tact,MPE		= Single-stylus - form error	
PForm.Sph.Scan:PP	:Tact,MPE	= Scanning form error	
MPEFR		= Radial four-axis error	
MPEFT		= Tangential four-axis error	
		= Axial four-axis error	

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6. Applicable documents

AA-1030-003 Durchführung von Prüfungen mit Koordinatenmessgeräten im DAkkSakkreditierten Bereich (Undertaking inspections using coordinate measuring machines in the DAkkS-accredited area)

7. Changes

Changes to the previous version are highlighted in yellow.

Date	Index	Change(s)
14.02.2025	001	New document

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