



SCS Directory

Accreditation number: SCS 0074

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 18.12.1996
Current accreditation: 20.01.2022 to 19.01.2027
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 20.01.2022

Calibration laboratory for Length

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ ¹⁾	Remarks
LENGTH Gauge blocks according to ISO 3650 - from steel - from ceramic	0,5 mm to 100 mm + 131,4 mm	Measurement of the deviation of the central length by comparison measurement Measurement of the deviations f_0 and f_U from the central length by 5 points comparison measurement	 0,06 μ m + 0.6•10 ⁻⁶ •L 0,06 μ m + 0.6•10 ⁻⁶ •L 0,05 μ m	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ ¹⁾	Remarks
LENGTH				
Dial gauges	0 ... 100 mm	Resolution Digital 1 μ m 10 μ m Analog	1,5 μ m 6 μ m 3 μ m	
Dial indicators	0 ... 3 mm		0,5 μ m	
Dial test indicators	0 ... 1,6 mm		0,7 μ m	
Micrometer Heads	0 ... 100 mm		3 μ m + $10 \cdot 10^{-6} \cdot L$	
Inductive measure probe	0 ... 100 mm		0,5 μ m + $10 \cdot 10^{-6} \cdot L$	
Micrometer	0 ... 100 mm		3 μ m + $10 \cdot 10^{-6} \cdot L$	
Caliper	0 ... 500 mm		20 μ m + $20 \cdot 10^{-6} \cdot L$	
Height gauge	0 ... 600 mm	Resolution 0,1 μ m	0,9 μ m + $3 \cdot 10^{-6} \cdot L$	
Length measurement error E_0 according to EN ISO 10360-2 for co-ordinate measuring machines	Specified length measurement error E_0 , $MPE \geq 1,2 \mu\text{m} + 3 \cdot 10^{-6} \cdot L$ with $L \leq 1,5 \text{ m}$	Tactile measuring Specified operating conditions	E_0 : $0,5 \mu\text{m} + 0,2 \cdot 10^{-6} \cdot L$ manually CMMs $0,3 \mu\text{m} + 1 \cdot 10^{-6} \cdot L$ CNC CMMs	Further required parameters according to 10360-2 are not determined. On-site calibration
Length measurement error E_0 according to EN ISO 10360-2 for co-ordinate measuring machines	500 mm ... 5000 mm	With laser interferometer	E_0 : $0,06 \mu\text{m} + 0,5 \cdot 10^{-6} \cdot L$	Further required parameters according to 10360-2 are not determined. On-site calibration
Single-stylus form error P_{FTU} according to EN ISO 10360-5 for co-ordinate measuring machines		Tactile measuring Specified operating conditions	P_{FTU} : 0,11 μ m	On-site calibration
Unidirectional length measurement error E_{UXY} and E_Z for CMM equipped with imaging probing systems according to EN ISO 10360-7	Specified length measurement error $E_{UXY} \geq 1,2 \mu\text{m} + 3 \cdot 10^{-6} \cdot L$ with $L \leq 400 \text{ mm}$	Specified operating conditions	E_{UXY} and E_{UZ} : $0,4 \mu\text{m} + 0,5 \cdot 10^{-6} \cdot L$	Further required parameters according to 10360-7 are not determined. On-site calibration



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ ¹⁾	Remarks
LENGTH Axially parallel unidirectional length measurement error E_{UXY} for projectors analogue to EN ISO 10360-7	cross table X-, Y-axis 0 ... 300 mm		E_{UX} and E_{UY} : $0,4 \mu\text{m} + 2,5 \cdot 10^{-6} \cdot L$	On-site calibration
Axially parallel unidirectional length measurement error E_{UXY} for measuring microscopes analogue to EN ISO 10360-7	cross table X-, Y-axis 0 ... 400 mm		E_{UX} and E_{UY} : $0,4 \mu\text{m} + 2,5 \cdot 10^{-6} \cdot L$	Also on-site calibration

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