



Accreditation number **SCS 074**

SCS Directory

Accreditation Standard ISO/IEC 17025:2005

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Calibration laboratory for Length

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First accreditation : 18.12.1996
Last accreditation : 20.01.2007
Updated version : www.sas.ch
(Akkreditierte Stellen)

Measured quantities:

Length

Mutations:

Personnel : 08.07.98, 10.02.04
: 12.01.06, 01.04.08
Extensions : 07.05.99, 04.12.01
Adress : 21.01.02
Edition : **SCS074/K**

The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor $k = 2$, which corresponds to a confidence level of about 95% for a normal distribution.

Measured Quantity Instrument or Gauge	Measurement range	Measurement Conditions	Best Measurement Capability \pm	Remarks
Length Gauge blocks according to ISO 3650 from steel	0,5 mm to 100 mm	Measurement of the deviation of the central length by comparison measurement Measurement of the deviations f_O and f_U from the central length by 5 points comparison measurement	(0,06 + 0,6•L) μm L = Measured length (m) 0,05 μm	
Dial gauges	up to 100 mm		(3 + 10•L) μm L = Measured length (m)	
Dial indicators	up to 3 mm		0,5 μm	
Dial test indicators	up to 1,6 mm		0,7 μm	
Micrometer Heads	up to 100 mm		(3 + 10•L) μm L = Measured length (m)	
Inductiv measure probe	up to 100 mm		(0,5 + 10•L) μm L = Measured length (m)	
Micrometer	up to 100 mm		(3 + 10•L) μm L = Measured length (m)	
Caliper	up to 500 mm		(20 + 20•L) μm L = Measured length (m)	
Height gauge	up to 600 mm	Resolution 0,1 μm	(0,9 + 3•L) μm L = Measured length (m)	



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Measured Quantity Instrument or Gauge	Measurement range	Measurement Conditions	Best Measurement Capability \pm	Remarks
Error of indication E and Probing error P from Coordinate measuring machines	Coordinate measuring machines with specified MPE (E) $\geq 1,2 \mu\text{m} + 3L/1000$ with $L \leq 1,5 \text{ m}$ and MPE (P) $\geq 1,4 \mu\text{m}$	Specified operating conditions	Measuring uncertainty of the used step gauges $0,16 \mu\text{m} + 0,34 \cdot 10^{-6} \cdot L$	In according to EN/ISO 10360-2