Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

SCS Directory

Accreditation number: SCS 0088

International standard:	ISO/IEC 17025:2017
Swiss standard:	SN EN ISO/IEC 17025:2018

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Initial accreditation:	12.08.1998
Current accreditation:	06.11.2023 to 05.11.2028
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 06.11.2023

Calibration laboratory for length

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± [1)]	Remarks
Length				
Machine tools	up to 30 m	Also on-site calibration	0,2 µm + 1,4•10^{-6}•L	positioning accuracy with laserinterferometer
Measuring machines 1D	up to 1 m	Also on-site calibration	0,1 µm + 0,4•10^{-6}•L	positioning accuracy with laserinterferometer
Measuring machines 1D	from 1 m to 4 m	Also on-site calibration	0,1 µm + 1,7•10^{-6}•L	positioning accuracy with laserinterferometer
Measuring machines 1D	up to 0,1 m	Also on-site calibration	0,2 µm + 1,1•10^{-6}•L	positioning accuracy with gauge block
Measuring machines 1D	from 0,1 m to 1 m	Also on-site calibration	0,35 µm + 1,6•10^{-6}•L	positioning accuracy with gauge block
Measuring machines 1D	up to 0,1 m	Also on-site calibration	0,45 µm + 1,5•10^{-6}•L	positioning accuracy with gauge ring

1) 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.

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Measured Quantity / Instrument or Gauge	**Measurement Range**	**Measurement Conditions**	**Best Measurement Uncertainty ± [1)]**	**Remarks**
Measuring machines 1D	up to 1 m	Also on-site calibration	1,4 µm + 1,4•10^{-6}•L	positioning accuracy with step gauge
Angle				
Angular deviation	up to 15 m	Also on-site calibration	0,8 µm/m + 3•10^{-3}•A + 0,15µm/m•L	with angular laserinterferometer
Flatness				
Granit tables, reference surfaces	from 0.4 m x 0.4 m	Also on-site calibration	1,3 µm + 0,5•10^{-6}•L	With angular laserinterferometer, Union-Jack method

The measurement uncertainties mentioned in this register are based on optimal ambient conditions between 19°C and 21°C. During calibration, at our premises or at the customer's site, under other conditions, the results are corrected at 20°C and the measurement uncertainty is expanded accordingly. The limits of ambient conditions not to be exceeded for SCS calibration are set at 18°C and 26°C.

In case of contradictions in the language versions of the directories, the French version shall apply.

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1) 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.