



SCS Directory

Accreditation number: SCS 0044

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

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Initial accreditation: 28.04.1993
Current accreditation: 17.05.2024 to 16.05.2029
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 17.05.2024

Calibration laboratory for length (flatness) and inclination angles

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
LENGTH				
Surface plate	till 12,5 m ²		(0,5 + 0,5•L ²) μ m L = length of plate in m	
Flatness				
ANGLE				
Inclination	\pm 20 mm/m		1 μ m/m + 0,002•E E = measured value	
Electronical Inclination measurement instruments				
Spirit levels with vials				



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Mechanical inclination measurement instruments				
Inclination measurement instruments	Full circle, interval $\frac{1}{2}^\circ$		1,2"	
	Full circle, interval 1°		2,5"	
	$\pm 60^\circ$, interval 1°		2,1"	
Perpendicularity of measuring bases on electronical inclination measurement instruments and spirit levels	Width < 150 mm Length < 300 mm	Resolution		Prismatic and flat measuring bases
		1 $\mu\text{m}/\text{m}$	5 $\mu\text{m}/\text{m}$	
		5 $\mu\text{m}/\text{m}$	7 $\mu\text{m}/\text{m}$	
		10 $\mu\text{m}/\text{m}$	8 $\mu\text{m}/\text{m}$	
Perpendicularity of flat angle standards and machine parts	$50 \text{ mm} \leq \text{Width} \leq 2500 \text{ mm}$ $200 \text{ mm} \leq \text{Length} \leq 2500 \text{ mm}$		$(1,7 + 0,5 \cdot \text{SL}) \cdot \mu\text{m}$ SL: Longer side length in m	Especially granite-, ceramic- and cast iron standards
Setting gauge for inclination measuring instruments Clinotronic	$\pm 50^\circ$, interval 5°		1,8"	

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

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