



SCS Directory

Accreditation number: SCS 0130

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

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Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 14.03.2023

Calibration laboratory for dimensional measurements

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
LENGTH				
Plug gauge		Measuring instrument:		
- from steel	0.05 mm ... 20 mm	Linear length measuring machine	0.3 μm + $1.8 \cdot 10^{-6} \cdot L$	Marked diameter
	20 mm ... 200 mm		1.2 μm + $3 \cdot 10^{-6} \cdot L$	
- from tungsten carbide	0.05 mm ... 50 mm		0.4 μm + $1.4 \cdot 10^{-6} \cdot L$	
Ring gauge		Measuring instrument:		
- from steel	1.5 mm ... 100mm	Coordinate measuring machine	0.7 μm + $6 \cdot 10^{-6} \cdot L$	Local diameter



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Cylindrical screw plug gauge				
- from steel	1 mm ... 100 mm pitch 0.25 mm... 2.5 mm	Flank angle 60°	2.1 μ m	Simple pitch diameter
- from tungsten carbide	1 mm ... 100 mm pitch 0,25 mm... 2.5 mm		2.1 μ m	
Calliper		Scale interval q:		
Digital	up to 500 mm	0.01 mm 0.02 mm	7 μ m + q + $10 \cdot 10^{-6} \cdot L$	Error of indication
Analogic		0.01 mm 0.02 mm	9 μ m + q + $10 \cdot 10^{-6} \cdot L$	
External micrometer		Scale interval:		
	up to 100 mm	0.001 mm	2 μ m + $14 \cdot 10^{-6} \cdot L$	Error of indication
		0.010 mm	5 μ m + $8 \cdot 10^{-6} \cdot L$	
Internal micrometer with 3-line contact		Scale interval:		
	3 mm ... 50 mm	0.001 mm	5 μ m + $5 \cdot 10^{-6} \cdot L$	Error of indication
		0.002 mm		
		0.005 mm		
		0.010 mm		
Dial gauge with axial plunger, analog reading		Scale interval:		
	0 mm ... 100 mm	0.001 mm	1.9 μ m	Error of indication
		0.010 mm	2.0 μ m	Repeatability Hysteresis Fidelity
Dial gauge with axial plunger, digital reading		Scale interval:		
	0 mm ... 100 mm	0.001 mm	2.6 μ m	Error of indication



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Dial test indicator (lever type), analog reading	0 mm ... 3 mm	0.010 mm	2.6 μ m	Fidelity
		Scale interval:		
		0.001 mm	1.5 μ m	Error of indication
		0.002 mm	1.7 μ m	Hysteresis
Dial test indicator (lever type), digital reading	0 mm ... 3 mm	0.010 mm	2.4 μ m	Fidelity
		Scale interval:		
		0.001 mm	1.9 μ m	Error of indication
		0.010 mm	2.7 μ m	Hysteresis
				Fidelity

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

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