

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Mahr, spol. s r.o.

Facility No. 2412, Calibration Laboratory – Mahr Proboštov
Kpt. Jaroše 552, Post code 417 12, Proboštov

CMC for the field of measured quantity: Length

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
1*	Length / Ring gauges - roundness - front run-out - straightness - parallelity - perpendicularity	0 μm	up to	500 μm			0.026 μm	Measuring with a roundness standard flatness standard flatness standard straightness standard parallelity standard flatness standard	KP 1.1.1	
		0 μm	up to	500 μm	X-axis	0.027 μm				
		0 μm	up to	500 μm	Z-axis	0.05 μm				
		0 μm	up to	500 μm	Z-axis	0.2 μm				
		0 μm	up to	500 μm	Z-axis	0.3 μm				
		0 μm	up to	500 μm	X-axis	0.05 μm				
2*	Length / Contourographs - straightness - length - radius	0 mm	up to	70 mm			0.03 μm	Measuring with a flatness standard KN100 contour standard radius standard	KP 1.2.1	
		0.1 mm	up to	260 mm			0.6 μm			
		6 mm	up to	100 mm			0.75 μm			
3*	Length / Roughness meters	0.8 μm	up to	500 μm				Comparison with Ra roughness standard with Rz roughness standard with Rmax roughness standard with Pt profile standard	KP 1.3.1	
					Roughness Ra	3 %				
					Roughness Rz	3 %				
					Roughness Rmax Profile Pt	3 % 0.15 μm				

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

³ If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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CMC for the field of measured quantity: Plane angle

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
1*	Angle / Contourographs	0 °	up to	360 °		0.015 °	Measuring with an angle standard	KP 1.2.1		

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² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

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