



#### EA MLA Signatory Český institut pro akreditaci, o.p.s. Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

## CERTIFICATE OF ACCREDITATION

No. 44/2022

M & B Calibr, spol. s r.o. with registered office Ke Karlovu 62/10, Němčice, 664 91 Ivančice, Company Registration No. 43389783

to the Calibration Laboratory No. **2301**Calibration Laboratory

Scope of accreditation:

Calibration of meters of length, plane angle, roughness, pressure, moment of force, force, temperature, humidity, hardness, mass and rotational speed to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 506/2021 of 24. 9. 2021, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: 19. 7. 2024

Prague: 31. 1. 2022





Lukáš Burda
Director of the Department
of Testing and Calibration Laboratories

Czech Accreditation Institute Public Service Company

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

#### M & B Calibr, spol. s r.o.

Calibration Laboratory Ke Karlovu 62/10, Němčice, 664 91 Ivančice

#### Calibration laboratory locations:

1. Calibration Laboratory

Ke Karlovu 62/10, Němčice, 664 91 Ivančice

2. Calibration Laboratory

Strojírenská 259/16, Zličín, 155 21 Praha 5

CMC for the field of measured quantity:

Length

Ord.	Calibrated quantity /	No	ominal i	range	Parameter(s) of	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
num- ber <sup>1</sup>	Subject of calibration	min. unit		max. unit	the meas. quantity	uncertainty specified <sup>2</sup>	Cambration principle	identification <sup>3</sup>	place
1	Steel parallels	0.5 mm	to	1,000 mm		(2·L + 0.2) μm	Comparative measurement using steel parallels	KP D1	1
2*	Steel length gauges	0 m 2 m	to to	2 m 5 m		60 μm 180 μm	Comparative measurement using steel parallels	KP D2	1,2
	Steel tape measures	0 m	to	2 m		0.14 mm	Comparative measurement on a reference track		
		2 m 3 m	to	3 m 5 m		0.28 mm 0.42 mm			
		5 m 8 m	to	8 m 10 m		0.70 mm 0.98 mm			
3	Tape measures	0 m 10 m	to to	10 m 20 m		0.4 mm 0.6 mm	Comparative measurement on a reference track	KP D3	1,2
		20 m 50 m	to to	50 m 100 m		1.0 mm 2.2 mm			
	Laser distance meters	0 m	to	5 m		0.2 mm			
4	Limit and end measuring rings				illut pro a	Krie (	Direct and comparative measurement by a distance	KP D4	1
		1 mm 100 mm	to to	100 mm 500 mm	II SEL	(2·L + 0.5) μm (2·L + 2.4) μm	meter		
		1 mm	to	200 mm	NACCOURAGE ACCEPTAGE	(4 L + 1.3) μm			2

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Ord.	Calibrated quantity /	N	ominal r	ange	Parameter(s) of	Lowest expanded measurement	Calibration principle	Calibration procedure	Work
ber <sup>1</sup>	Subject of calibration	min. unit		max. unit	the meas. quantity	uncertainty specified <sup>2</sup>	Cambration principle	identification <sup>3</sup>	place
	Limit snap	1 mm	to	100 mm		$(2 \cdot L + 0.5) \mu m$			1,2
	gauges	100 mm	to	500 mm		$(2\cdot L + 2.4) \mu m$			
	Feeler gauges	0.02 mm	to	100 mm		$(2 \cdot L + 0.5) \mu m$			
	Limit cylindrical gauges	100 mm	to	500 mm		(2·L + 2.4) μm			
5*	Feeler gauges, Limit cylindrical gauges.	1 mm	to	125 mm		(2·L + 2.4) μm	Direct measurement by a micropasameter	KP D4	1
6	Limit plug gauges	1 mm	to	200 mm		(3·L +3) μm	Direct measurement by a distance meter	KP D5	1,2
		1 mm	to	160 mm		+ 4) (1·L μm	Direct measurement on MasterScanner XP 16060		
	Threaded rings	1 mm	to	3 mm		(3·L +3) μm	Comparison by a wear pin gauge		
		2.5 mm	to	200 mm		(3·L +3) μm	Comparative measurement by a distance meter		
		3 mm	to	160 mm		+ 4) (1·L μm	Direct measurement on MasterScanner XP 16060		
7*	Limit plug gauges	1 mm	to	125 mm		(3·L + 3.5) μm	Direct measurement by a micropasameter	KP D5	1
8*	Slide gauges: slide rules, depth gauges, height gauges	0 mm	to	1,000 mm		12 μm	Comparative measurement using steel parallels	KP D6	1,2
		1,000 mm	to	3,000 mm		20 μm		VID D.	
9*	Micrometer gauges: micrometers, pasameters, micropasameters, micrometer heads,				Divisjon wit pro	, co.	Comparative measurement using steel parallels	KP D7	1,2
	micrometer depth gauges	0 mm	to	25 mm	0.000P mm	0.7 μm 1.4 μm			
		0 mm	to	100 mm	3 0	Ω Ω 1.4 μm			

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Ord.	Calibrated quantity /	N	ominal i	range	Parameter(s) of	Lowest expanded measurement	Calibration principle	Calibration procedure	Work
ber <sup>1</sup>	Subject of calibration	min. unit		max. unit	the meas. quantity	uncertainty specified <sup>2</sup>	Canbi ation principie	identification <sup>3</sup>	place
		100 mm	to	1,000 mm		2.5 μm			
		1,000 mm	to	1,500 mm		4.1 μm			
10*	Inside micrometers Three-contact internal						Comparative measurement using setting rings	KP D8	1,2
	gauges	2 mm	to	100 mm		2.0 μm			
		100 mm	to	300 mm		4.0 μm			1
		100 mm	to	200 mm		4,0 μm			2
11	Inside micrometer gauges	10 mm	to	3,000 mm		(3·L + 2.2) μm	Direct measurement by a distance meter	KP D9	1
		10 mm	to	1000 mm		(3·L + 2.2) μm			2
12*	Electromagnetic, ultrasonic thickness						Comparative measurement by a thickness reference standard	KP D10	1
	gauges	0 mm	to	1.5 mm		$(1 L + 1.3) \mu m$			
		1.5 mm	to	500 mm		$(1 \cdot L + 2.3) \mu m$			
13	Direct and lever dial						Direct measurement by a special	KP D11	1,2
	indicators	0 mm	to	100 mm		0.3 μm	measuring device		
	Two-contact internal		20.000						
	gauges	2 mm	to	205 mm		0.3 μm			
		205 mm	to	1 000 mm		(3·L + 2,2) μm	Direct measurement by a length gauge		2
14	Gauges, jigs, templates, meters of plane and angle	0 mm	to	2,000 mm		(4.5·L + 1.7) μm	Measurement by a 3D CMM	KP D12	1
15*	Profile projectors,			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(110 23 117) Juli	Comparative measurement	KP D13	1
10	measuring microscopes	0 mm	to	300 mm		$(1 \cdot L + 2.6) \mu m$	using a rule		
16*	Measurement of straightness,				10000		Direct measurement by a laser interferometer	KP D14	1
	linear sensing, measurement of flatness				istut pro ak	(1·L + 0.1) μm	menerometer		
	of engineering gauges	0 m	to	20 m	1.5	Ω. (1·L + 0.1) μm			
		0 m	to	20 m	NARODNI AGREDITACNI ORG	$1.5  \mu \text{m/m}^2$			

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Ord.	Calibrated quantity /	No	ominal	range	Parameter(s) of	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber1	Subject of calibration	min. unit		max. unit	the meas. quantity	uncertainty specified <sup>2</sup>	Canbi ation principie	identification <sup>3</sup>	place
17	Gauges, jigs,	0 mm	to	600 mm		(2.5·L + 1.2) μm	Measurement by a linear	KP D15	1
	templates, meters						height gauge		
18*	Linear height gauges	0 mm	to	600 mm		(0.8·L + 0.5) μm	Comparative measurement by a calibration comb	KP D16	1
		600 mm	to	1,000 mm		(3.0 + 1·L) μm	Comparative measurement by a calibration comb and steel parallels		
19*	Contourographs	0 mm	to	100 mm		(1·L + 2.6) μm	Comparative measurement using end standards	KP D17	1
20*	Length measuring instruments	0 mm	to	1,000 mm		(2·L + 0.2) μm	Direct measurement by a laser interferometer	KP D18	1
21*	3D coordinate measuring machines	0 mm	to	600 mm		(2·L + 0.2) μm	Comparative measurement by a calibration comb	KP D19	1
		600 mm	to	1,000 mm		(2·L + 0.2) μm	Comparative measurement by a calibration comb and steel parallels		
		0 mm	to	10,000 mm		(1·L + 0.1) μm	Direct measurement by a laser interferometer		
22	Gauges, meters, jigs, templates, rules	0 mm	to	330 mm		(2·L + 3.5) μm	Direct measurement by a 2D microscope	KP D20	1
		0 mm	to	300 mm		$(2\cdot L + 3.5) \mu m$			2
23	Blade and surface rules	0 mm	to	2,000 mm		$(5 L + 2) \mu m$	Direct measurement on a plate	KP D21	1
		2,000 mm	to	3,000 mm		(5·L + 12) μm	Measurement on a bed		
		0 mm	to	1,000 mm		(5·L + 2) μm	Direct measurement on a plate		2
		1,000 mm	to	1,500 mm	000 2/	(5·L + 12) μm			
24*	Roughness meters	0.01 μm	to	6,000 μm	Situl Picon	5 %	Comparative measurement by a roughness reference standard	KP DR1	1
25	Roughness standards	0.01 μm	to	6,000 μm	\$ 50%	5%	Direct measurement by a roughness meter	KP DR1	1

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Ord.	Calibrated quantity /		N	ominal ra	ange		Parameter(s) of	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber1	Subject of calibration	min.	unit		max.	unit	the meas. quantity	uncertainty specified <sup>2</sup>	Cambration principle	identification <sup>3</sup>	place
26	Angles								Direct measurement by a 3D	KP R2	1
		(	0 °	to	180	0	Length up to 3 m	$(4.5 L + 2) \mu m$	CMM		
									Direct measurement on special		2
							Length up to 0.6 m	$(20 L + 2) \mu m$	equipment		

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

The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M, 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).

Explanatory notes: CMM - coordinate measuring machine, L - nominal length in metres, CP - calibration procedure



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Calibration Laboratory Ke Karlovu 62/10, Němčice, 664 91 Ivančice

#### CMC for the field of measured quantity:

#### Plane angle

Ord.	Calibrated quantity /		Nomi	inal rai	nge		Parameter(s) of the meas.	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber <sup>1</sup>	Subject of calibration	min.	unit		max. u	unit	quantity	uncertainty specified <sup>2</sup>	Cambración principio	identification <sup>3</sup>	place
1	Levels – builder's, liquid, machine						Division sensitivity from 0.01		Direct measurement by a small angle generator	KP R1	1,2
		-52 ° m	m/m	to	52 ° mm	n/m	mm/m	0.005 mm/m			
	Clinometers	-180 °	0	to	180 °		Division from 0.01 °	0.15 °			
2	Angle gauges								Direct measurement	KP R2	1,2
		0 9	0	to	360 °			5 ′	using angle gauges		

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Calibration Laboratory Ke Karlovu 62/10, Němčice, 664 91 Ivančice

#### CMC for the field of measured quantity:

#### Mass

Ord.	Calibrated quantity /		Nomina	al range		Parameter(s) of the meas.	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber1	Subject of calibration	min. u	nit	max.	unit	quantity	uncertainty specified <sup>2</sup>	Canto atton principle	identification <sup>3</sup>	place
1*	Electronic and mechanical scale with non-automatic							Comparative measurement using a reference weight	KP VA1	1
		0.001 g	to	2,000 g			2.7·10 -6	E2 class weight		
		2 kg	to	20 kg	g		1.4·10 -5	F2 class weight		
		20 kg	to	1,000 kg	g		5.0·10 -5	M1 class weight		

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- The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M, 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).

Explanatory notes: The lowest expanded measurement uncertainty is stated without accounting for the effect of the ealibrated meter.



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CMC for the field of measured quantity:

**Temperature** 

Ord.	Calibrated quantity /		Nomi	nal rang	ge		Parameter(s) of	Lowest expanded		Calibration procedure	Work-
ber <sup>1</sup>	Subject of calibration	min.	unit		max.	unit	the meas. quantity	measurement uncertainty specified <sup>2</sup>	Calibration principle	identification 3	place
1*	Direct-indicating thermometers	-30	°C	to	0	°C		0.06 °C	Comparison with a reference digital thermometer in a dry block calibrator	KP TE1	1
		0	°C	to	100	°C		0.05 °C	Comparison with a reference digital thermometer in a liquid bath		
		100	°C	to	200	°C		0.06 °C	Comparison with a reference digital thermometer in a dry block calibrator		
		200	°C	to	300	°C		0.09 °C			
		300	°C	to	400	°C		0.4 °C			
		400	°C	to	500	°C		0.5 °C			
		500	°C	to	650	°C		0.6 °C			
		650	°C	to	1,100	°C		1.5 °C	Comparison with a reference digital thermometer in an air oven		
	Contactless thermometers								Comparison with a reference pyrometer on target-type or cavity-		
		-10		to	200			3.0 °C	type black body		
		200		to	500			6.0 °C			
		500	°C	to	800	°C		10.0 °C			
2*	Thermoelectric temperature sensors	-30	°C	to	0	°C		0.7 °C	Comparison with a reference digital thermometer in a dry block calibrator	KP TE2	1
		0	°C	to	100	°C		0.7 °C	Comparison with a reference digital thermometer in a liquid bath		
		100	°C	to	550	°C	istut pro a	0.9 °C	Comparison with a reference digital thermometer in a dry block calibrator		4
		550	°C	to	800	°C	inski	0.9 °C 2.3 °C	Comparison with a reference digital thermometer in an air oven		

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Ord. num- ber <sup>1</sup>	Calibrated quantity / Subject of calibration	min.	Nomi unit	nal rang	max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification	Work- place
3*	Resistance temperature sensors	-30	°C	to	0 °C		0.15 °C	Comparison with a reference digital thermometer in an oven	KP TE3	1
		0	°C	to	100 °C		0.13 °C	Comparison with a reference digital thermometer in a liquid bath		
		100	°C	to	400 °C		0.45 °C	Comparison with a reference digital thermometer in an oven		

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

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Calibration Laboratory Ke Karlovu 62/10, Němčice, 664 91 Ivančice

#### CMC for the field of measured quantity:

#### **Torque**

Ord.	Calibrated quantity / Subject	No	minal	range	Parameter(s) of the	Lowest expanded measurement	Colibration principle	Calibration	Work-
ber <sup>1</sup>	of calibration	min. unit		max. unit	meas. quantity	uncertainty specified <sup>2</sup>	Calibration principle	procedure identification <sup>3</sup>	place
1*	Torque wrenches	0.1 Nm 1,100 Nm	to to	1,100 Nm 3,000 Nm		0.65 % 0.90 %	Comparative measurement by a reference torque sensor	KP S1	1
	Torque measuring devices, torque drivers, torque sensors	0.1 Nm	to	500 Nm		0.40 %			

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CMC for the field of measured quantity:

Force

Ord.	Calibrated quantity / Subject	No	Nominal range		Parameter(s) of the	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber1	of calibration	min unit.		max unit.	meas. quantity	uncertainty specified <sup>2</sup>	Canbi ation principle	identification <sup>3</sup>	place
1	Force meters and						Comparative measurement	KP S2	1
	extensometric sensors	0 N	to	5 kN		0.20 %	by a reference force sensor		
		5 kN	to	30 kN		0.30 %			
2*	Force meters and						Comparative measurement		
	extensometric sensors	0 N	to	5 kN		0.20 %	by a reference force sensor		
		5 kN	to	20 kN		0.30 %			

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#### CMC for the field of measured quantity:

#### Hardness

Ord.	Calibrated quantity / Subject of		Nom	inal ra	nge		Parameter(s) of the	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
ber <sup>1</sup>	calibration	min	unit.		max	unit.	meas. quantity	uncertainty specified <sup>2</sup>	Canaranon printipio	identification <sup>3</sup>	place
1	Rockwell hardness plates and								Direct measurement	KP TV1	1
	samples	70	HRA	to	85	HRA		0.40 HRA			
		60	HRB	to	100	HRB		0.40 HRB			
		20	HRC	to	70	HRC		0.40 HRC			
	Shore A hardness plates	0	ShA	to	100	ShA		2.0 ShA			
	Shore D hardness plates	0	ShD	to	100	ShD		2.0 ShD			
	Brinell hardness plates	8	HBW	to	650	HBW		1.0 %			
2*	Rockwell hardness meters for								Direct measurement using		
	metals	70	HRA	to	85	HRA		0.50 HRA	reference hardness plates		
		60	HRB	to	100	HRB		0.50 HRB			
		20	HRC	to	70	HRC		0.50 HRC			
	Vickers hardness meters for										
	metals	10	HV	to	2,000	HV		0.50%			
	Brinell hardness meters for										
	metals	10	HBW	to	650	HBW		0.50%			
	Shore hardness meters, type										
	A,D,E,C	1	Sh	to	100	Sh		0.50 Sh			

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#### CMC for the field of measured quantity:

#### Pressure

Ord. num- ber <sup>1</sup>	Calibrated quantity / Subject of calibration	N	ominal	range	Parameter(s) of the meas.		Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
		min. uni	t	max. unit	q	uantity	uncertainty specified <sup>2</sup>	Canoration principle	identification <sup>3</sup>	place
1*	Deformation manometers, tyre pressure gauges, electromechanical pressure gauges (digital pressure gauges, pressure transducers with digital output of the measured quantity)	-100 kPa 0 kPa 35 kPa 160 kPa	to to to	0 kPa 35 kPa 160 kPa 2,000 kPa	Gas	Overpressure/ underpressure	130 Pa 18 Pa 130 Pa 0.1%	Comparative measurement by a pressure reference standard	KP T1, KP T2	1
		25 kPa	to	600 kPa	Liquids	Overpressure	180 Pa			
		0.6 MPa 6 MPa	to	6 MPa 60 MPa			0.05 %			
		60 MPa	to	70 MPa			0.1 %			
		70 MPa	to	140 MPa			0.2 %			

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#### CMC for the field of measured quantity:

#### Humidity

Ord. num- ber <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range					Parameter(s) of the	Lowest expanded measurement	Calibration principle	Calibration procedure	Work-
		min.	unit		max.	unit	meas. quantity	uncertainty specified <sup>2</sup>	Canbration principle	identification <sup>3</sup>	place
1*	Relative humidity								Comparative measurement by a	KP VL1	1
	meters except psychrometers	10	% RH	to	95 %	% RH		2.3 % RH	reference hygrometer		

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#### CMC for the field of measured quantity:

#### Rotational speed

Ord. num- ber <sup>1</sup>	Calibrated quantity / Subject of calibration	min.	No unit	ominal ra	nge max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work- place
1*	Speed gauges	30	min <sup>-1</sup>	to	40,000	min -1		(1.1 % + 0.5d)	Direct measurement by a revolution generator	KP OT1	1

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

The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M, 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.

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).

Explanatory notes: d - division of the scale of the calibrated gauge