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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. 506/2021

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.: 785/2020 of 22. 12. 2020, or any administrative acts building upon it.

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

Prague: 24. 9. 2021

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Lukáš Burda
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

The Appendix is an integral part of
Certificate of Accreditation No. 506/2021 of 24/09/2021

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. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-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	to	2	m		60 µm	Comparative measurement using steel parallels	KP D2	1,2
		2	m	to	5	m		180 µm			
	Steel tape measures	0	m	to	2	m		0.14 mm	Comparative measurement on a reference track		
		2	m	to	3	m		0.28 mm			
		3	m	to	5	m		0.42 mm			
		5	m	to	8	m		0.70 mm			
		8	m	to	10	m		0.98 mm			
3	Tape measures	0	m	to	10	m		0.4 mm	Comparative measurement on a reference track	KP D3	1,2
		10	m	to	20	m		0.6 mm			
		20	m	to	50	m		1.0 mm			
		50	m	to	100	m		2.2 mm			
	Laser distance meters	0	m	to	5	m		0.2 mm			
4	Limit and end measuring rings	1	mm	to	100	mm		(2·L + 0.5) µm	Direct and comparative measurement by a distance meter	KP D4	1
		100	mm	to	500	mm		(2·L + 2.4) µm			
		1	mm	to	200	mm		(4·L + 1.3) µm			2

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Ke Karlovu 62/10, Němčice, 664 91 Ivančice

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
	Limit snap gauges	1 mm	to		100 mm			(2·L + 0.5) µm			1,2
		100 mm	to		500 mm			(2·L + 2.4) µm			
	Feeler gauges	0.02 mm	to		100 mm			(2·L + 0.5) µm			
	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
	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		
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			
9*	Micrometer gauges: micrometers, pasameters, micropasameters, micrometer heads, micrometer depth gauges	0 mm	to		100 mm			1.4 µm	Comparative measurement using steel parallels	KP D7	1,2
		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 gauges	2 mm	to		100 mm			2.0 µm	Comparative measurement using setting rings	KP D8	1

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		100 mm		to	300 mm			4.0 µm			
		2 mm		to	100 mm			2,0 µm			2
		100 mm		to	200 mm			4,0 µm			
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						2
12*	Electromagnetic, ultrasonic thickness gauges	0 mm		to	1.5 mm			(1·L + 1.3) µm	Comparative measurement by a thickness reference standard	KP D10	1
		1.5 mm		to	500 mm			(1·L + 2.3) µm			
13	Direct and lever dial indicators	0 mm		to	100 mm			0.3 µm	Direct measurement by a special measuring device	KP D11	1,2
	Two-contact internal gauges	2 mm		to	205 mm						
		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 Measuring microscopes	0 mm		to	300 mm			(1·L + 2.6) µm	Comparative measurement using a rule	KP D13	1
16*	Measurement of straightness, linear sensing, measurement of flatness	0 m		to	20 m			(1·L + 0.1) µm	Direct measurement by a laser interferometer	KP D14	1
		0 m		to	20 m			1.5 µm/m²			
17	Gauges, jigs, templates, meters	0 mm		to	600 mm			(2.5·L + 1.2) µm	Measurement by a linear height gauge	KP D15	1
18*	Linear height gauges	0 mm		to	600 mm			(0.8·L + 0.5) µm	Comparative measurement by a calibration comb	KP D16	1

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Ord. num-ber[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		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
23	Blade and surface rules	0	mm	to	1,000	mm		(5·L µm + 2)	Direct measurement on a plate	KP D21	2
		1,000	mm	to	1,500	mm		(5·L µm + 12)			
24*	Roughness meters	0.01	µm	to	6,000	µm		5 %	Comparative measurement by a roughness reference standard	KP DR1	1
25	Roughness standards	0.01	µm	to	6,000	µm		5 %	Direct measurement by a roughness meter	KP DR1	1
26	Angles	0	°	to	180	°	Length up to 3 m	(4.5·L + 2) µm	Direct measurement by a 3D CMM	KP R2	1
							Length up to 0.6 m	(20·L + 2) µm	Direct measurement on special equipment		2

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[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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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	Levels – builder's, liquid, machine	-3 °	to	3 °		Division of the scale from	0.01 mm/m	0.005 mm/m	Direct measurement by a small angle generator	KP R1	1,2
	Clinometers	-180 °	to	180 °		Division from	0.01 °	0.15 °			
2	Angle gauges	0 °	to	360 °				5 ′	Direct measurement using angle gauges	KP R2	1,2

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Explanatory notes:
L - Nominal length in metres

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CMC for the field of measured quantity: Mass

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*	Electronic and mechanical scale with non-automatic							Comparative measurement using a reference weight	KP VA1	1
		0.001 g	to	2,000 g			$2.7 \cdot 10^{-6}$	E2 class weight		
		2 kg	to	20 kg			$1.4 \cdot 10^{-5}$	F2 class weight		
		20 kg	to	1,000 kg			$5.0 \cdot 10^{-5}$	M1 class weight		

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[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 calibrated meter.

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CMC for the field of measured quantity: Temperature

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-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	-10	°C	to	200	°C		3.0 °C	Comparison with a reference pyrometer on target-type or cavity-type black body		
		200	°C	to	500	°C		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		0.9 °C	Comparison with a reference digital thermometer in a dry block calibrator		
		550	°C	to	800	°C		2.3 °C	Comparison with a reference digital thermometer in an air oven		

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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					
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		

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[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: Torque

Ord. num-ber[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*	Torque wrenches	0.1 Nm	to	1,100 Nm			0.65 %	Comparative measurement by a reference torque sensor	KP S1	1
		1,100 Nm	to	3,000 Nm			0.90 %			
	Torque measuring devices, torque drivers, torque sensors	0.1 Nm	to	500 Nm			0.40 %			

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[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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Calibration Laboratory
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CMC for the field of measured quantity: **Force**

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	jedn.	max	jedn.					
1	Force meters and extensometric sensors	0 N 5,000 N	to to	5,000 N 30,000 N			0.20 % 0.30 %	Comparative measurement by a reference force sensor	KP S2	1
2*	Force meters and extensometric sensors	0 N 5000 N	to to	5,000 N 20,000 N			0.20 % 0.30 %	Comparative measurement by a reference force sensor		

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CMC for the field of measured quantity: Hardness

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min	jedn.		max	jedn.	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
1	Rockwell hardness plates and samples	70 HRA 60 HRB 20 HRC		to to to	85 HRA 100 HRB 70 HRC			0.40 HR	Direct measurement	KP TV1	1
	Shore A hardness plates	0 ShA		to	100 ShA			2.0 Sh			
	Shore D hardness plates	0 ShD		to	100 ShD			2.0 Sh			
	Brinell hardness plates	8 HBW		to	650 HBW			1.0 %			
2*	Rockwell hardness meters for metals	70 HRA 60 HRB 20 HRC		to to to	85 HRA 100 HRB 70 HRC			0.50 HR	Direct measurement using reference hardness plates		
	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. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
1*	Deformation manometers, tyre pressure gauges Electromechanical pressure gauges (digital pressure gauges, pressure transducers with digital output of the measured quantity)	-100 kPa	to		0 kPa		Gas	Overpressure/ underpressure	130 Pa	Comparative measurement by a pressure reference standard	KP T1, KP T2	1
		0 kPa	to		35 kPa				18 Pa			
		35 kPa	to		160 kPa				130 Pa			
		160 kPa	to		2,000 kPa				0.1%			
		25 kPa	to		600 kPa		Liquids	Overpressure	180 Pa			
		0.6 MPa	to		6 MPa				0.03 %			
		6 MPa	to		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. 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*	Relative humidity meters except psychrometers	10 % RH	to	95 % RH			2.3 % RH	Comparative measurement by a reference hygrometer	KP VL1	1

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[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: Rotational speed

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*	rpm meters	30	min^{-1}	40,000	min^{-1}		(1.1 % + 0.5d)	Direct measurement by a revolution generator	KP OT1	1

[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).

Explanatory notes: d - division

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