



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

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

# CERTIFICATE OF ACCREDITATION

No. 162/2026

**Centrum výzkumu Řež s.r.o.**  
**with registered office Hlavní 130, Řež, 250 68 Husinec**  
**Company Registration No. 26722445**

for the Calibration Laboratory No. 2246  
VZU Calibration Laboratory

Scope of accreditation:

Calibration of meters of geometrical quantities (length and plane angle) and calibration of meters of force, torque, mechanical motion and vibrations 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 abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited 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.: 318/2023 of 15/06/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **01/02/2027**

Prague: 01/04/2026



Signed in the Czech original:  
Jan Velíšek on 01/04/2026

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

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

**Centrum výzkumu Řež s.r.o.**  
CAB number 2246, VZU Calibration Laboratory  
Tylova 1581/46, Jižní Předměstí, 301 00 Plzeň

**Calibration laboratory locations:**

1. **Length and Angle Laboratory** Domažlická 2928/3, 301 00 Plzeň  
Correspondence address: Tylova 1581/46, 301 00 Plzeň
2. **Vibration Laboratory** Orlík 266/15, Bolevec, 316 00 Plzeň  
Correspondence address: Tylova 1581/46, 301 00 Plzeň
3. **Force Laboratory** Orlík 266/15, Bolevec, 316 00 Plzeň  
Correspondence address: Tylova 1581/46, 301 00 Plzeň

**CMC for the field of measured quantity: Length**

Ord. Number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min.	unit	max.	unit					
1	Gauge blocks	0.3 mm	to	0.9 mm		0,3μm	Measurement on a comparator Comparative measurements with standards of II. order (gauge blocks) Comparative measurements with standards of III. order (gauge blocks) Measurements on a length measuring machine	KALP-KL/55/101	1	
		0.5 mm	to	100 mm		(0,9·L + 0,09) μm				
		100 mm	to	1,000 mm		(1,8·L + 0,18) μm				
		1,000 mm	to	3,000 mm		(5·L + 2) μm				
2	Setting rings	3 mm	to	300 mm	diameter	(3·D + 0,7) μm	Measurements on a length measuring machine Measurements on a roundness tester	KALP-KL/55/102	1	
		0 μm	to	100 μm	roundness	(0,06·V + 0,1) μm				
3	Inside micrometers	0 mm	to	1,000 mm		(3·L + 0,5) μm	Measurements on a length measuring machine	KALP-KL/55/103	1	
		1,000 mm	to	6,000 mm		(5·L + 2) μm				

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Ord. Number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min.	unit	max.	unit					
4	Limit gauges - plain plug gauges - thread plug gauges - thread ring gauges	0 mm	to	300 mm		(3·L+ 0,5) μm (3·L+ 1,9) μm (3·L+ 1,9) μm	Measurements on a length measuring machine	KALP-KL/55/104	1	
5*	Slide gauges Slide weld gauges Height gauges Displacement sensors	0 mm	to	3,000 mm		(13·L+ 12) μm (13·L+ 12) μm (7·L+ 2) μm (15·L + 15) μm	Comparative measurements with standards of IV. order (block gauges) Comparative measurements with standards of IV. order (block gauges) Comparative measurements with standards of IV. order (block gauges) Linear scale measurement	KALP-KL/55/105	1	
6	Micrometer gauges - internal (folding) - external (snap) - internal (inside)	0 mm	to	6,000 mm		(7·L+ 1,5) μm (7·L+ 1,5) μm (7·L+ 1,5) μm	Measurements on a length measuring machine Comparative measurements with standards of IV. order (block gauges) Comparative measurements with setting rings	KALP-KL/55/106	1	
7	Indicators	0 mm	to	100 mm	0.001 mm	(3·L+ 0,5) μm	Measurements on a length measuring machine	KALP-KL/55/107	1	
		0 mm	to	100 mm	0.01 mm	(3·L+ 2) μm				

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Ord. Number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min.	unit	max.	unit					
8	Graduated gauges  - rigid, microscopic - tape, extendable, digital, folding  - band									
		0 mm	to	3,000 mm		$(10 \cdot L + 5) \mu\text{m}$	Measurement on a microscope	KALP-KL/55/108	1	
		0 mm	to	5,000 mm		$(0,08 \cdot L + 0,15) \mu\text{m}$	Comparison with length gauge measuring machine			
		0 m	to	100 m		$(0,06 \cdot L + 0,13) \mu\text{m}$	Comparison with length gauge measuring machine			
9*	Surface plate Surface rule	100 mm	to	5,000 mm	flatness	$(2 \cdot L + 1) \mu\text{m}$	Measurements with electrical level	KALP-KL/55/110	1	
		100 mm	to	5,000 mm	straightness	$(2 \cdot L + 1) \mu\text{m}$				
10	Atypical gauges and linear length gauges	3 mm	to	300 mm	diameter	$(3 \cdot D + 0,7) \mu\text{m}$	Measurements on a length measuring machine	KALP-KL/55/111	1	
		0 mm	to	1,000 mm	length	$(3 \cdot L + 0,5) \mu\text{m}$				
11	Radius, profile and thread gauges, plain taper gauges internal and external, cone type diameter gauge, penetration needle and atypical templates	0 mm	to	1,000 mm	X-axis	$(7 \cdot L + 5,7) \mu\text{m}$	Measurement on a microscope with SW M2D	KALP-KL/55/112	1	
		0 mm	to	300 mm	Y-axis	$(7 \cdot L + 5,7) \mu\text{m}$				
12	Measuring cylinders of squareness	100 mm	to	1,000 mm	angle deviation	$(1,2 \cdot L + D/4 + 0,14) \mu\text{m}$	Measurements on a roundness tester	KALP-KL/55/201	1	
13	Angles	0 mm	to	1,000 mm		$(7 \cdot L + 5,7) \mu\text{m}$	Measurement on a microscope with SW M2D	KALP-KL/55/202	1	
14	Sine bars	0 mm	to	300 mm		$(3 \cdot L + 0,9) \mu\text{m}$	Measurements on a length measuring machine	KALP-KL/55/205	1	
15	Film thickness gauges	0 mm	to	2 mm		$(20 \cdot L + 1,7) \mu\text{m}$	Measurement by a thickness standard	KALP-KL/55/113	1	
	Ultrasonic thickness gauges	0 mm	to	50 mm		$(0,02 \cdot L + 0,03) \text{mm}$	Measurement using parallel gauge blocks			

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- <sup>1</sup> Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.
- <sup>2</sup> 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. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.
- <sup>3</sup> For dated documents identifying calibration procedures, only those specific procedures are used. For undated documents identifying calibration procedures, the most recent edition of that procedure (including any changes) is used.

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**CMC for the field of measured quantity: Plane angle**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work place
		min.	unit	max.	unit					
1	Angle gauges	0 ° -180 °	to	360 ° 180 °		1.2 ′ 1.2 ′	Comparative measurement with standard of angle gauges Measurement on a sine bar	KALP-KL/55/204	1	
2	Liquid and electronic levels Builder's level	-10 mm/m -10 mm/m	to	10 mm/m 10 mm/m		2.5 μm/m 16 μm/m	Measurement on a small angle generator	KALP-KL/55/203	1	

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<sup>2</sup> The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a 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 measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

<sup>3</sup> 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).

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

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**CMC for the field of measured quantity: Mechanical motion (vibrations)**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min.	unit	max.	unit					
1*	Acceleration of linear harmonic mechanical vibrations <sup>4</sup> / Vibrometers and control standards <sup>5</sup>	0.1 m·s <sup>-2</sup>		to	1,100 m·s <sup>-2</sup>		2 %	Comparative measurement with a vibration standard	KALP-KL/56/001 (ČSN ISO 16063-21)	2
2*	Sensitivity of vibration sensors / Vibration sensors	0.01 mV/ m·s <sup>-2</sup>		to	10,000 mV/ m·s <sup>-2</sup>	in the frequency band 3 to 5,000 Hz	2 %	Comparative measurement with a vibration standard	KALP-KL/56/002 (ČSN ISO 16063-21)	2

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<sup>2</sup> The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a 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 measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

<sup>3</sup> For dated documents identifying calibration procedures, only those specific procedures are used. For undated documents identifying calibration procedures, the most recent edition of that procedure (including any changes) is used

<sup>4</sup> By calculating the measurements, the velocities and displacements of mechanical vibrations are evaluated

<sup>5</sup> Portable vibrators intended for operational use

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**CMC for the field of measured quantity: Force, mechanical tests (torque)**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work place
		min.	unit	max.	unit					
1*	Torque / Torque wrench and other devices <sup>4</sup>	0.2 N·m		to	1,500 N·m		0.91 %	Comparative measurement with a standard torque device	KALP-KL/55/302 (ČSN EN ISO 6789)	1
2*	Force (compression, tension) / Working load cells of testing systems	10 kN		to	20 kN		0.036 %	Comparison measurement with a standard load cell	KALP-KL/54/001	3
		20 kN		to	100 kN		0.021 %			
		100 kN		to	150 kN		0.11 %			
		150 kN		to	250 kN		0.092 %			
		250 kN		to	500 kN		0.060 %			

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<sup>4</sup> Torque wrenches and screwdrivers, torque transducers, pneumatic and electric tighteners, tightening systems

*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*