

**The Appendix is an integral part of  
Certificate of Accreditation No. 229/2022 of 12/05/2022**

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

**TM Technik s.r.o.**  
Calibration Laboratory  
Kaštanová 530/125b, Brněnské Ivanovice, 620 00 Brno

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

| Ord. number<br>1 | 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<br>3 | Work-place |
|------------------|---|---------------|----------------|------------------------------------|--|---|---|------------|
|                  |   | min. unit     | max. unit      |                                    |  |   |   |            |
| 1*               | Slide gauges analogue and digital                 | 0 mm          | up to 1,000 mm |                                    | $(9 \cdot L + 10) \mu\text{m}$                                 | Measurement with parallel gauge blocks      | KP-001                                    |            |
| 2*               | Micrometer gauges analogue and digital            | 0 mm          | up to 1,000 mm |                                    | $(6.4 \cdot L + 1.3) \mu\text{m}$                              | Measurement with parallel gauge blocks      | KP-002                                    |            |
| 3                | Dial, lever and digital indicators                | 0 mm          | up to 25 mm    |                                    | 0.5 $\mu\text{m}$  | Measurements on special measuring equipment | KP-003                                    |            |
|                  |   | 0 mm          | up to 100 mm   |                                    | $(4.1 \cdot L + 1.2) \mu\text{m}$                              | Measurement on a length gauge               |   |            |
| 4                | Pasameters  | 0 mm          | up to 300 mm   |                                    | $(4.8 \cdot L + 2.2) \mu\text{m}$                              | Measurement with parallel gauge blocks      | KP-004                                    |            |
| 5                | Limit and end measuring rings - diameter          | 0.5 mm        | up to 300 mm   |                                    | $(5.4 \cdot L + 0.8) \mu\text{m}$                              | Measurement on a length gauge               | KP-005                                    |            |
| 6                | Feeler gauges                                     | 0.02 mm       | up to 5 mm     |                                    | 0.5 $\mu\text{m}$  | Measurement on a length gauge               | KP-006                                    |            |
| 7                | Parallel gauge blocks                             | 0.5 mm        | up to 100 mm   | 4th order                          | $(2 \cdot L + 0.2) \mu\text{m}$                                | Comparison with parallel gauge blocks       | KP-007                                    |            |
|                  |   |               |                | 5th order                          | $(5 \cdot L + 0.5) \mu\text{m}$                                |   |   |            |
| 8                | Plain gauges for holes and shafts - diameter      | 0 mm          | up to 300 mm   |                                    | $(5.8 \cdot L + 0.7) \mu\text{m}$                              | Measurement on a length gauge               | KP-008                                    |            |
| 9                | Measuring wires and cylindrical gauges - diameter | 0 mm          | up to 20 mm    |                                    | $(5.1 \cdot L + 0.7) \mu\text{m}$                              | Measurement on a length gauge               | KP-009                                    |            |
| 10               | Blade measuring rules and check rules             | 0 mm          | up to 500 mm   |                                    | $(3.8 \cdot L + 1.2) \mu\text{m}$                              | Measurement on a microscope                 | KP-011                                    |            |
| 11               | Internal gauge with dial indicator                | 1 mm          | up to 400 mm   |                                    | $(11 \cdot L + 1.2) \mu\text{m}$                               | Measurement with measuring rings            | KP-014                                    |            |
| 12               | Tape measures                                     | 0 m           | up to 10 m     |                                    | $(2 \cdot L + 110) \mu\text{m}$                                | Comparison with a standard line scale       | KP-015                                    |            |
| 13               | Steel rules                                       | 0 mm          | up to 1,000 mm |                                    | $(4.9 \cdot L + 22) \mu\text{m}$                               | Measurement on a microscope                 | KP-016                                    |            |
| 14               | Thread gauges (male and female)                   | 0 mm          | up to 500 mm   |                                    | $(1.3 \cdot L + 0.7) \mu\text{m}$                              | Measurement on a length gauge               | KP-017                                    |            |

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|                  |  | min. unit     | max. unit      |                                    |  |   |   |            |
| 15*              | Optical measuring systems                    | 0 mm          | up to 600 mm   |                                    | (1·L +2.6) μm  | Measurement with a glass gauge                                  | KP-028                                    |            |
| 16               | Gauges, measuring jigs and special gauges    | 0 mm          | up to 300 mm   |                                    | (1·L +2) μm  | Measurement on a 3D coordinate measuring machine                | KP-030                                    |            |
| 17*              | Height gauges                                | 0 mm          | up to 1,000 mm |                                    | (1.1·L +2.6) μm  | Measurement with a standard comb gauge or parallel gauge blocks | KP-031                                    |            |
| 18               | 90° angles (arm up to 600 mm)                | 0 mm          | up to 12 mm    |                                    | 0.006 mm   | Measurement with a standard height gauge                        | KP-012                                    |            |

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<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. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

<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).

Explanatory notes:

L ... measured length in metres

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

| Ord. number <sub>1</sub> | 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   |                                    |  |                             |   |            |
| 2                        | Angle gauges                                 | 0 °           | up to 360 ° |                                    | 5' 46"   | Measurement of angle gauges | KP-010  |            |

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

| Ord. number <sub>1</sub> | 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 <sub>3</sub> | Work-place |
|--------------------------|--|---------------|-------|-----------|------|------------------------------------|--|-----------------------|---|------------|
|                          |  | min.          | unit  | max.      | unit |                                    |  |                       |   |            |
| 1*                       | Air mass flow meters                         | 0 l/min       | up to | 0.5 l/min | air  | 0.04 l/min                         | Direct comparison with a standard flow meter                   | KP-033                |   |            |
|                          |  | 0.5 l/min     | up to | 5 l/min   |      | 0.05 l/min                         |  |                       |   |            |
|                          |  | 5 l/min       | up to | 50 l/min  |      | 0.45 l/min                         |  |                       |   |            |

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**CMC for the field of measured quantity: 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  |                                    |  |   |   |            |
| 1                        | Torque wrenches and screwdrivers             | 0.2 Nm        | up to | 1,100 Nm                           | 0.5 %  | Measurement with a standard torque sensor | KP-025  |            |

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

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|------------------|--|-------------------|-------|---------------------|--------------------|------------------------------------|--|-----------------------|---|------------|
|                  |  | min.              | unit  | max.                | unit               |                                    |  |                       |   |            |
| 1*               | Digital pressure gauges, digital pressure gauges as a part of tightness gauges | -100 kPa<br>0 kPa | up to | 2,000 kPa<br>10 kPa | air gauge pressure | 0.03 % + 0.3 kPa<br>0.03 % + 3 Pa  | Comparison with a standard pressure gauge                      | KP-032                |   |            |

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