

# alicon

## **CALIBRATION & VERIFICATION SERVICE CERTIFICATE**

IF  **EDGEMASTER**

SERIAL NUMBER: 056013311712

DATE OF CALIBRATION: 08.04.2026

ENGINEER

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Frederico Drago  
Service Technician

CALIBRATION OVERVIEW

| Calibration | Objective | Reference | Actual   | Deviation | Tolerated Deviation | Last Calibration | State |
|-------------|-----------|-----------|----------|-----------|---------------------|------------------|-------|
| Vertical    | 10x       | 1002.43µm | 1002.7µm | 0.27µm    | 1.0µm               | 08.04.2026       | OK    |
| Lateral     | 10x       | 49.999µm  | 49.999µm | 0.0µm     | 0.015µm             | 08.04.2026       | OK    |

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## LATERAL CALIBRATION

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To prove the quality of the measurement device, the following measurements were performed using the IF-CalibrationTool:

**Calibration Results**

| Objective | Description         | Value    | Uncertainty/State |
|-----------|---------------------|----------|-------------------|
| 10x       | Alicona             | 49.999µm | 0.2µm             |
|           | Alicona             | 49.999µm | 0.5µm             |
|           | Deviation           | 0.0µm    | OK                |
|           | Tolerated Deviation | 0.015µm  |                   |

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## TRACEABILITY OF THE CALIBRATION TOOL TO THE NATIONAL STANDARD

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The lateral part of this calibration was calibrated with an IFM system with the serial number 075215506515

The aforementioned IFM system was calibrated with an Alicona Calibration Tool with the serial number 002030004914

The lateral part of the calibration tool with the serial number 002030004914 and the calibration mark 019ALICONA19 was calibrated by the DAkkS calibration laboratory D-K-18737-01-00 with the calibration label 2322 D-K-18737-01-00 2019-03.

The DAkkS calibration laboratory D-K-18737-01-00 uses a position measurement system LMS IPRO4.

The position measurement system LMS IPRO4 is calibrated with a two-dimensional position standard.

## VERTICAL CALIBRATION

To prove the quality of the measurement device, the following measurements were performed using the IF-CalibrationTool:

### Calibration Results

| Description         | Value     | Uncertainty/State |
|---------------------|-----------|-------------------|
| Kolb & Baumann      | 1002.43µm | 0.15µm            |
| Alicona             | 1002.7µm  | 1.0µm             |
| Deviation           | 0.27µm    | OK                |
| Tolerated Deviation | 1.0µm     |                   |

## TRACEABILITY OF THE CALIBRATION TOOL TO THE NATIONAL STANDARD

The vertical part of this calibration tool with the serial number 002001307519 and the calibration mark 003ALICONA20 was calibrated by the DAkkS calibration laboratory D-K-15077-01-00 with the calibration label 13982 D-K-15077-01-00- 2019-09.

The traceability to national standards is guaranteed by measurement against comparison with DAkkS-calibrated gauge blocks of Calibration Certificate N° 12255 D-K-15077-01-00 2017-07.

## MEASUREMENT SETTINGS

| Objective           | 10x   |
|---------------------|-------|
| Vertical Resolution | 1.0µm |
| Lateral Resolution  | 3.9µm |
| Polarizer           | Off   |

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## MEASUREMENT UNCERTAINTY

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All stated uncertainties are expanded measurement uncertainties obtained by multiplying the standard measurement uncertainties by the coverage factor  $k=2$ . They have been determined in accordance with the "Guide to the Expression of Uncertainty in Measurement (GUM)". The measurand values lie, with a probability of approximately 95%, within the coverage interval given by the expanded uncertainties.

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## USED SOFTWARE

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The Softwareversion which was used for all adjustments and calibrations is the ServiceSoftware 6.5.3.

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## USED CALIBRATION TOOLS

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The measurement device was calibrated with standardized, tested and certified calibration tools. This guarantees the accurate, efficient and first class use of the device.

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## IF-CalibrationTool

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|---------------------------|----------------------------|
| Calibration Mark:         | 003ALICONA20               |
| Date of Last Calibration: | 22.01.2020 (lateral part)  |
|                           | 26.09.2019 (vertical part) |