



# KMF 3

Calibrator to check the linearity  
of extensometers



P r e c i s i o n   t e s t i n g   o f   l i n e a r   s t r a i n

## Area of application

The KMF 3 is an economical and universal instrument for checking a large variety of extensometers and for setting the gain of their measurement amplifiers. A linearity test of extensometers is possible only within the system accuracy of the KMF 3. For linearity checks of extensometers with the accuracy class between 0.2 and 1 the calibrator KMF 01 or KMF 1 is necessary (according to European Norm EN ISO 9513). In the horizontal position of the KMF 3 even inductive transducers (e.g. LVDTs) can be clamped on through the base plate for testing. Its low weight and handy construction make it highly suitable for field work.

## Design and function

On a stable frame a digital micrometer is fixed having a non-rotating spindle with a stroke of 50 mm. The micrometer can be set to zero at any desired position. The spindle is extended with a measuring pin ( $\varnothing 12$  mm). Inside the frame the extensometer or inductive transducer can be affixed for testing. Holders with tungsten carbide plate for gauge heads and threaded holders (M4 x 0.5) can be attached instead of the upper measuring pin. The base supports of the instrument can be changed so that a 3 - or 4 - point support may be selected. All parts are made of corrosion resistant materials (hard-chrome plated columns, coated aluminium and stainless steel). A data interface for the printer DP - 1DX is available with the digital micrometer Mitutoyo 164 - 161.

## Delivery scope

- |   |   |
|---|---|
| 1 | Extensometer calibrator with or without digital micrometer Mitutoyo 164 - 161 |
| 2 | Measuring pins $\varnothing 12$ mm  |
| 1 | Hexagonal screw driver 4 mm   |
| 1 | Torx screw driver T10   |

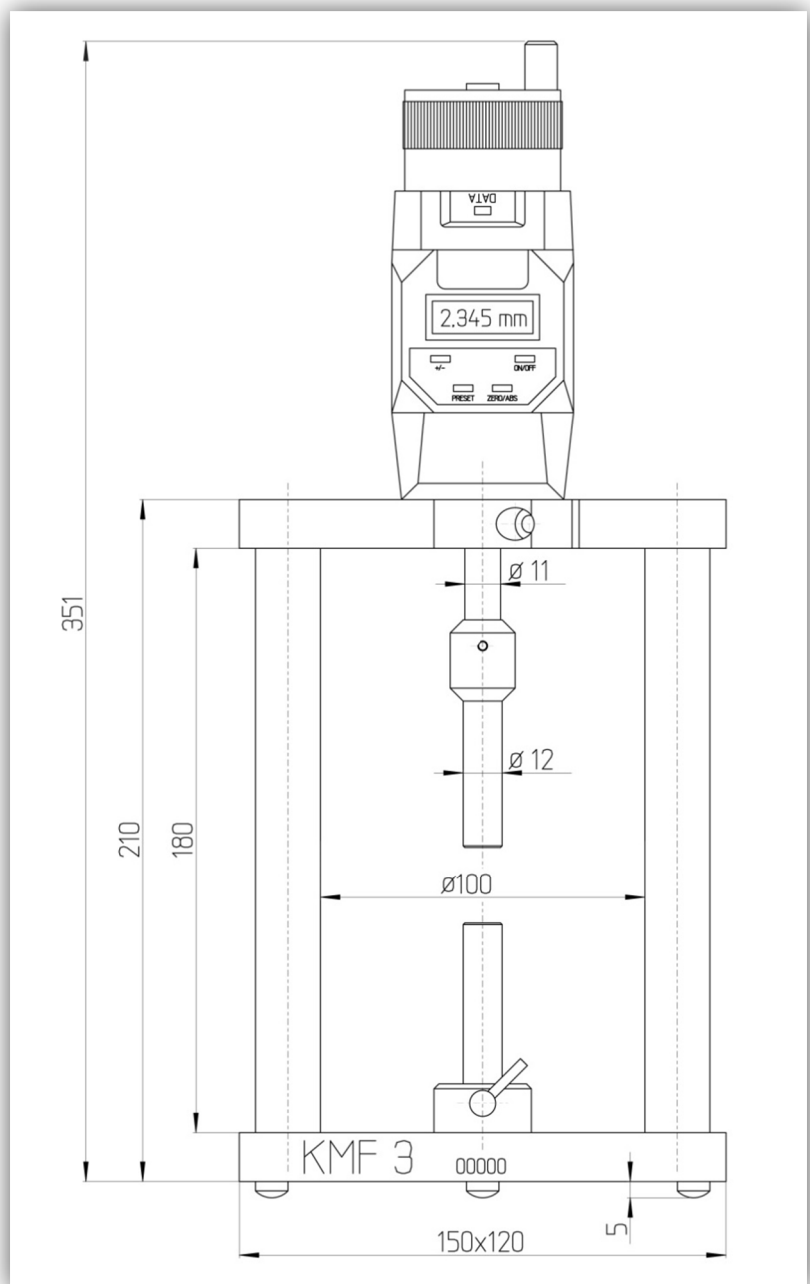
## Spare parts and accessories

- |                                    |
|------------------------------------|
| Holder with tungsten carbide plate |
| Threaded holder with M4 x 0.5      |
| Printer Mitutoyo DP - 1DX          |
| Columns extended by 50 mm          |

## Technische Daten

## KMF 3

Stroke	50 mm
System accuracy	4 $\mu$ m
Resolution	1 $\mu$ m
Measuring pin for clip on-extensometers	$\varnothing 12$ mm
Movement of one turn	0.5 mm
Digital micrometer	Mitutoyo 164-161
Weight	2.5 kg



Picture 1: KMF 3 - Dimensions