

Specialized Measuring **MICROMETERS**

FOR OUTSIDE & INSIDE DIAMETERS MEASUREMENT

SWISS TECHNOLOGY



**High-precision 3-point measuring system -
Large measuring range and high accuracy**



A: On The Measuring
Head To Avoid
Scratches.

B: Every 2 M
For Better
Guidance.

C: On The Shaft
To Improve
Centering.

**Extensions available for
Internal Diameters Measurement, upto
15 METERS DEPTH EXTENSION**



**High
Accuracy**



**Temperature
Stable**



**Large
Measuring
Range**

3 -Point Internal Micrometer Analogue

Available measuring ranges from $\varnothing$ 30 - 1150 mm

ANALOG

3-POINT INTERNAL MICROMETER

- ✓ Innovative and easy-to-read display
- ✓ Measuring range up to 1150 mm diameter
- ✓ Diameter 30-400 mm in 6 instruments
- ✓ Extension up to 10 m without loss of accuracy
- ✓ Microtest® spindle measuring system
- ✓ Blind hole measurement down to the bottom

 **Application:** For measuring through holes and blind holes

Features

- High-precision 3-point measuring system with synchronised measuring spindles
- Central bevel gear system with high accuracy
- Self-centering for reliable positioning in the bore
- Temperature-compensating design with hand heat protection
- Parallax-free, high-contrast scale engraving for reliable reading

Advantages

- Large measuring range and high accuracy thanks to Microtest® spindle system
- Constant measuring pressure independent of the user
- Reduced wear compared to cone-based systems
- Extendable upto 15 m with depth extensions and centring devices



SIZE RANGE

3-point internal micrometer

1. 30-40 mm	4. 90-140 mm	7. 400-650 mm
2. 40-60 mm	5. 140-240 mm	8. 650-900 mm
3. 60-90 mm	6. 240-400 mm	9. 900-1150 mm

3 -Point Internal Micrometer Digital

Available measuring ranges from $\varnothing$ 30 - 315 mm

DIGITAL

3-POINT INTERNAL MICROMETER

- ✓ High-contrast display for perfect readability
- ✓ Protection class IP66, resistant to cooling water
- ✓ Double ball-bearing measuring shaft with 10,000 increments
- ✓ Data transfer via cable or wireless
- ✓ Measuring modes: Absolute (ABS)/
- ✓ Incremental (INC), Metric (mm)/Imperial (Inch)

Short description:

Precise measuring instrument for through holes and blind holes with digital display

Features

- High-precision 3-point measuring system with synchronised measuring spindles
- Ball-bearing measuring spindle with sensor (10,000 increments/rev)
- Central bevel gear system for precise force transmission, Self-centring
- Temperature-compensating design
- Robust, IP66-protected GFRP housing
- High-contrast display

Advantages

- High accuracy and large measuring range with Microtest® spindle system
- Easy operation, adjustment and extension
- Constant measuring pressure independent of the user
- Extendable up to 15 m with depth extensions and centring aids



SIZE RANGE

3-point digital internal micrometer

1. 30-40 mm	5. 140-240 mm	8. 75-115 mm
2. 40-60 mm	6. 240-400 mm	9. 115-185 mm
3. 60-90 mm	7. 50-75 mm	10. 185-315 mm
4. 90-140 mm		

3-Point External Digital Micrometer

Available measuring ranges from $\varnothing$ 28 - 391 mm

Measuring depth and carbide pins can be adjusted upon request and by agreement.

- ☑ Unit of measurement:
Metric (mm)/Imperial (inch)
- ☑ Measuring modes:
Absolute (ABS)/Incremental (INC)
- ☑ High-contrast display for error-free reading
- ☑ Resolution: 100 nm
(corresponds to 10,000 increments/mm)
- ☑ Housing: Glass fiber reinforced plastic, Impact resistant
- ☑ Protection rating: IP 66 (water-resistant)
- ☑ Data transmission: wireless or wired
- ☑ Special features:
 - ☑ Temperature-compensated construction
 - ☑ Linearly compensated wear of the measuring probes
 - ☑ Extension over 10 m possible



Slotmaster - Slot & Grove Measuring Tool

Slot and Groove Measuring Gauge

At last a gauge for measuring accurately, yet simple, the width and the distance of slots and grooves for stop rings, circlips, "O" rings, joints etc. Measuring axial lengths in a bore can be quite a problem without the SLOTMASTER

- The SLOTMASTER set is available with METRIC or INCH scales and comprises Measuring Unit with dial test Indicator (Compac)
- Shockproof device, drop- and spray-water protected, graduation 0.01 mm (0,0005")
- Attachment for measuring from zero to 30 mm (0 to 1")
- Attachment for measuring from 30 to 60 mm (1" to 2")
- Setting gauge
- Tablo stand
- Wooden box.



Slotmaster Set
0/1.2-60 mm



Slotmaster Set
0/1.2-30 mm



Slotmaster Set
30-60 mm

3 -Point Modular - Internal Micrometer Gold

Available measuring ranges from $\varnothing$ 30 - 115 mm

MODULAR

3-POINT INTERNAL MICROMETER

- ✓ Interchangeable attachments for
 - ✓ grooves, balls, bores, flanks
 - ✓ Special attachments available upon request
 - ✓ Measuring range from
 - ✓ 40-50 mm to 250-410 mm
 - ✓ Data transfer via cable or wireless
- Protection class IP66, resistant to cooling water
- Double ball-bearing measuring shaft with 10,000 increments
- Extension up to 10 m without loss of accuracy
- Microtest® Spindle Measuring System



Short description

Precise measuring instrument for through holes and blind holes with digital display



Features

- High-precision 3-point measuring system with synchronised measuring spindles
- Ball-bearing measuring spindle with sensor (10,000 increments/rev)
- Central bevel gear system for precise force transmission
- Self-centring
- Temperature-compensating design
- Robust, IP66-protected GFRP housing
- High-contrast display



Advantages

- High accuracy and large measuring range with Microtest® spindle system
- Easy operation, adjustment and extension
- Constant measuring pressure independent of the user
- Extendable up to 15 m with depth extensions and centring aids

STANDARD SIZES:

30 mm - 40 mm	90 mm - 140 mm
40 mm - 60 mm	50 mm - 75 mm
60 mm - 90 mm	75 mm - 115 mm



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- The plastic coating protects the instrument from splashing water, dirt and hand warmth
- The temperature-compensated design allows for highly accurate measurements even outside of the Standard ambient temperature of 20°C,
- This is because the material expansion of the workpiece and the measuring instrument is almost completely compensated.
- Furthermore, system is maintenance-free.
- Regular calibration and certification costs are reduced significantly.

