

Inside Micrometers

For easy and accurate measurement of inside size and diameter

Tubular Inside Micrometers SERIES 139, 339, 140 — Extension Pipe Type

- Wide range of inside measurements possible by combining Extension Pipes and anvils with the micrometer head.
- Carbide measuring faces are available.
- The sleeve is rotated to adjust the index line position when setting to a length standard.
- An inside length standard is required for accurately setting the micrometer.
- Order Nos. 339-101/301/302/102/303/304 features:
 - IP65 (water-proof) protection level that enables use in the presence of cutting fluid.
 - A large-character LCD display.
 - Storage of 2 preset values for use when setting to an inside length standard.
 - A function lock that prevents accidental changing of the reference setting during measurement.



SPECIFICATIONS

Metric						
Order No.	Range (mm)	Resolution (mm)	Micrometer head stroke (mm)	Extension pipes		Display unit (mm)
				Qty	Size (mm)	
Digimatic (LCD)						
339-101	200 - 225	0.001	25	—	—	200 - 225
339-301	200 - 1000			5	25, 50, 100, 200, 400	
339-302	200 - 2000			8	25, 50, 100, 200 (2 pcs.), 400 (3 pcs.)	
Metric						
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)	Extension pipes		Main unit (mm)
				Qty	Size (mm)	
Analog						
139-173	100 - 500	0.01	25	4	25, 50, 100, 200	100 - 125
139-174	100 - 900			5	25, 50, 100, 200, 400	
139-175	100 - 1300			6	25, 50, 100, 200, 400 (2 pcs.)	
139-176	100 - 1700			7	25, 50, 100, 200, 400 (3 pcs.)	
139-177	100 - 2100			8	25, 50, 100, 200, 400 (4 pcs.)	
140-157	1000 - 2000		50	5	50, 100 (2 pcs.), 200, 500	1000 - 1050
140-158	1000 - 3000			6	50, 100 (2 pcs.), 200, 500, 1000	
140-159	1000 - 4000			7	50, 100 (2 pcs.), 200, 500, 1000 (2 pcs.)	
140-160	1000 - 5000			8	50, 100 (2 pcs.), 200, 500, 1000 (3 pcs.)	

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

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IP 65



Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.

IP Codes

Level 6: Dust-proof.

No ingress of dust allowed.

Level 5: Protected against water jets.

Water projected in jets against the enclosure from any direction shall have no harmful effects.

Technical Data

- Accuracy
 - 339 series
 - ±(3 + number of pipes + maximum measurement length/50) μm (fraction rounded up)
 - 139 series
 - ±(3 + number of pipes + maximum measurement length/50) μm (fraction rounded up)
 - 140 series
 - ±(7 + number of pipes + maximum measurement length/50) μm (fraction rounded up)
- Excluding quantizing error (only for Digimatic)



Functions (for 339-101/301/302/102/303/304)

Zero-setting
Origin restoration
Data hold
Function lock
Automatic power ON/OFF
2-point Preset
Error alarm
Data output

Technical Data

- Battery and Scale Type
 - (for 339-101/301/302/102/303/304)
 - SR44 (1 pc), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 1.2 years under normal use
- Scale type: Electromagnetic induction-type rotary encoder

Optional Accessories

Refer to page A-25 for details.

- Connecting cables with **IT/DP/MUX**, etc.
 - 1 m: **05CZA662**
 - 2 m: **05CZA663**
- **USB Input Tool Direct** (2 m): **06AFM380B**
- Connecting cables for **U-WAVE-T**
 - For standard (160 mm): **02AZD790B**
 - For foot switch: **02AZE140B**

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Tubular Inside Micrometers **SERIES 139 — Extension Pipe Type (main unit)**

- Micrometer head for Extension Pipe Type inside micrometer.
- The sleeve is rotated to adjust the index line position when setting to a length standard.
- Optional Setting Rings, CERA Inside Micro Checker and Gauge Block Accessory Sets are available as reference gages for datum adjustment (refer to page C-47, C-26, and E-17 to E-20 for details).



139-001

SPECIFICATIONS

Metric				
Order No.	Range (mm)	Graduation (mm)	Accuracy (μm)	Micrometer head stroke (mm)
139-001	100 - 125	0.01	±3	25

Inch				
Order No.	Range (in)	Graduation (in)	Accuracy (in)	Micrometer head stroke (in)
139-002	4 - 5	0.001	±0.00015	1

DIMENSIONS

