

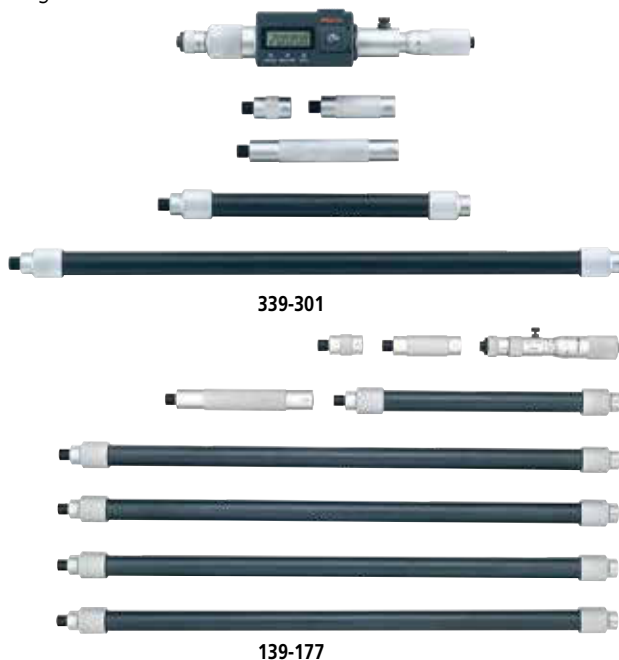
Inside Micrometers

For easy and accurate measurement of inside size and diameter

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

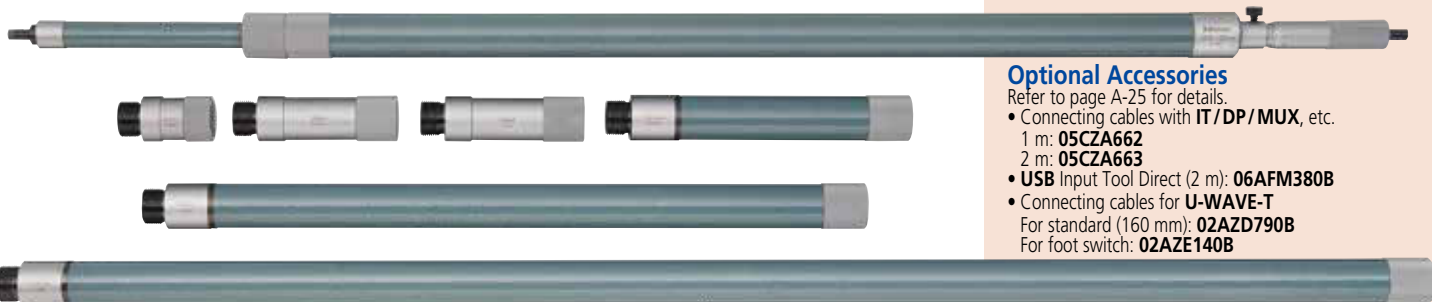
MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

- 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.



339-301

139-177



140-158

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	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.)					

Inch/Metric						
Order No.	Range (in)	Resolution	Micrometer head stroke (in)	Extension pipes		Display unit (in)
				Qty	Size (in)	
Digimatic (LCD)						
339-102	8 - 9	0.0001 in/ 0.001 mm	1	—	—	8 - 9
339-303	8 - 40			5	1, 2, 4, 8, 16	
339-304	8 - 80			8	1, 2, 4, 8 (2 pcs.), 16 (3 pcs.)	

Inch								
Order No.	Range (in)	Graduation (in)	Micrometer head stroke (in)	Extension pipes		Main unit (in)		
				Qty	Size (in)			
Analog								
139-178	4 - 20	0.001	1	4	1, 2, 4, 8	4 - 5		
139-179	4 - 36			5	1, 2, 4, 8, 16			
139-180	4 - 52			6	1, 2, 4, 8, 16 (2 pcs.)			
139-181	4 - 68			7	1, 2, 4, 8, 16 (3 pcs.)			
139-182	4 - 84			8	1, 2, 4, 8, 16 (4 pcs.)			
140-161	40 - 80			2	50	5	2, 4 (2 pcs.), 8, 20	40 - 42
140-162	40 - 120					6	2, 4 (2 pcs.), 8, 20, 40	
140-163	40 - 160					7	2, 4 (2 pcs.), 8, 20, 40 (2 pcs.)	
140-164	40 - 200	8	2, 4 (2 pcs.), 8, 20, 40 (3 pcs.)					

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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).

IP65

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
 $\pm(3 + \text{number of pipes} + \text{maximum measurement length}/50) \mu\text{m}$ (fraction rounded up)
 - 139 series
 $\pm(3 + \text{number of pipes} + \text{maximum measurement length}/50) \mu\text{m}$ (fraction rounded up)
 - 140 series
 $\pm(7 + \text{number of pipes} + \text{maximum measurement length}/50) \mu\text{m}$ (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**

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

