Inside Micrometers

For easy and accurate measurement of inside diameters

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

- Wide range of inside diameter 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 No. 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.
  - An output port for measurement data that enables inclusion in a statistical process control or networked measurement system. Refer to page A-3 for details.
  - Ability to use Interface Input Tools that enable conversion of measurement data to keyboard signals that are then directly input to cells in off-the-shelf spreadsheet software such as Excel. Refer to page A-5 for details.

339-301

139-177

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.

TÜVRheinland CERTIFIED www.tuv.com ID 0000021605

(Refer to page IX for details.)

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

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

SR44 (1 pc), **938882**, for initial operational checks (standard accessory)

Optional accessories

Refer to page A-21 for details
Connecting cables with **IT/DP/MUX**, etc.
1m: **05CZA662**
2m: **05CZA663**
USB Input Tool Direct (2m): **06ADV380B**
Connecting cables for **U-WAVE-T**
For standard (160mm): **02AZD790B**
For foot switch: **02AZE140B**

SPECIFICATIONS

Metric

Order No.	Range	Resolution	Micrometer head stroke	Extension pipes Qty	Extension pipes Size	Display unit
Digimatic (LCD)						
339-101	200 - 225mm	0.001mm	25mm	—	—	200 - 225mm
339-301	200 - 1000mm			5	25,50,100,200,400mm	
339-302	200 - 2000mm			8	25,50,100,200 (2pcs),400 (3pcs)mm	

Inch/Metric

Order No.	Range	Resolution	Micrometer head stroke	Extension pipes Qty	Extension pipes Size	Display unit
Digimatic (LCD)						
339-102	8" - 9"	.0001"/ 0.001mm	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.)	

Metric

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

Inch

Order No.	Range	Graduation	Micrometer head stroke	Extension pipes Qty	Extension pipes Size	Main unit
Analog						
139-178	4" - 20"	.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"	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.)	

Mitutoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances. Therefore the company reserves the right to change any or all aspects of any product specification without notice.

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
- An inside length standard is required for accurately setting the micrometer.

139-001

SPECIFICATIONS

Metric

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

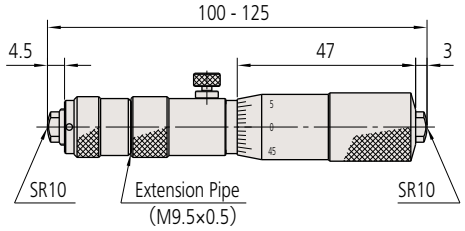
Inch

Order No.	Range	Graduation	Accuracy	Micrometer head stroke
139-002	4" - 5"	.001"	±.00015"	1"

C

DIMENSIONS

Unit: mm



Mitutoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances.
Therefore the company reserves the right to change any or all aspects of any product specification without notice.

Mitutoyo