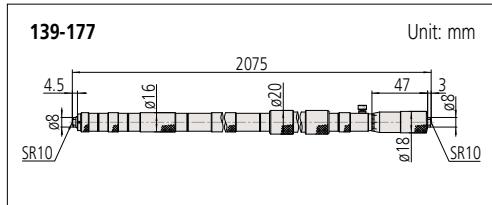


## Tubular Inside Micrometers SERIES 139, 140 — Extension-Pipe Type

- Wide range of inside measurements possible by combining Extension Pipes and anvils with the micrometer head.
- The sleeve is rotated to adjust the reference point adjustment when setting to a length standard.
- An inside length standard is required for accurately setting the micrometer.



### DIMENSIONS



### SPECIFICATIONS

#### Metric

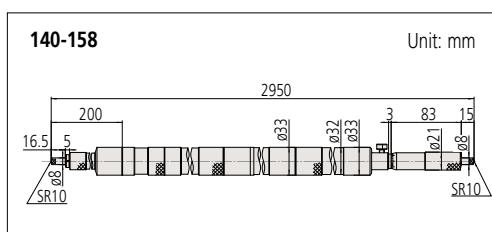
Order No.	Range (mm)	Graduation (mm)	Spindle feed error* (µm)	Micrometer head stroke (mm)	Extension pipes		Main unit (mm)
					Qty	Size (mm)	
139-173	100 - 500	0.01	3	25	4	25, 50, 100, 200	100 - 125
139-174	100 - 900				5	25, 50, 100, 200, 400	
139-175	100 - 1300				6	25, 50, 100, 200, 400 (2 pcs.)	
139-176	100 - 1700				7	25, 50, 100, 200, 400 (3 pcs.)	
139-177	100 - 2100				8	25, 50, 100, 200, 400 (4 pcs.)	

#### Inch

Order No.	Range (in)	Graduation (in)	Spindle feed error* (in)	Micrometer head stroke (in)	Extension pipes		Main unit (in)
					Qty	Size (in)	
139-178	4 - 20	0.001	0.00015	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.)	

\* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the measuring range of the micrometer head

### DIMENSIONS



### SPECIFICATIONS

#### Metric

Order No.	Range (mm)	Graduation (mm)	Spindle feed error* (µm)	Micrometer head stroke (mm)	Extension pipes		Main unit (mm)
					Qty	Size (mm)	
140-157	1000 - 2000	0.01	6	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

Order No.	Range (in)	Graduation (in)	Spindle feed error* (in)	Micrometer head stroke (in)	Extension pipes		Main unit (in)
					Qty	Size (in)	
140-161	40 - 80	0.001	0.0003	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.)	

\* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the measuring range of the micrometer head

## 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 reference point adjustment 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 pages C-28, C-52, and E-17 to E-20 for details)



139-001

#### SPECIFICATIONS

##### Metric

Order No.	Range (mm)	Spindle feed error* ( $\mu\text{m}$ )	Graduation (mm)	Micrometer head stroke (mm)
139-001	100 - 125	3	0.01	25

##### Inch

Order No.	Range (in)	Spindle feed error* (in)	Graduation (in)	Micrometer head stroke (in)
139-002	4 - 5	0.00015	0.001	1

\* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the specification range of the micrometer head

#### DIMENSIONS

