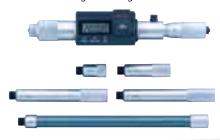
Inside Micrometers

For easy and accurate measurement of inside diameters

Tubular Inside Micrometers SERIES 137, 337 — Extension Rod Type

- Wide range of inside measurements possible by combining extension rods and anvils with the micrometer head.
- Two types of measuring faces are available; with or without carbide tip. (No. 337-101/301/302/102/303/304 only available with carbide tip.)
- 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. 337-101/301/302/102/303/304 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.





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



(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

±(3 + number of rods + maximum measurement length/50) µm (fraction rounded up) Excluding quantizing error (only for Digimatic)



Functions (for 337-101/301/302/102/303/304)

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

Battery

(for 337-101/301/302/102/303/304)

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	ı						
Order No.	Range	Resolutio	n Micrometo	er ce Qty	Extension rods Size	Disp l ay unit	
Digimatic (L	CD)						
337-101	200 - 225mm			1-	_		
337-301	200 - 1000mm	0.001mi	m 25mm	6	25,50,100 (2pcs),200,300mm	200 - 225mm	
337-302	200 - 1500mm	า		7	25, 50, 100, 200, 300 (3pcs) mm	1	
Metric L							
Order No.	Range	Graduation h	Micrometer	Ful	Extension rods	Main unit	

Metric	ı					
Order No.	Range	Graduation	Micrometer head stroke	Qty	Extension rods Size	Main unit
	50 - 150mm 50 - 300mm 50 - 500mm 50 - 1000mm 50 - 1500mm			3 5 6 8	13, 25, 50mm 13, 25, 50 (2 pcs.), 100mm 13, 25, 50 (2 pcs.), 100, 200mm 13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300 mm 13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.)mm	
137-206 137-207 137-208 137-209	measuring face) 50 - 150mm 50 - 300mm 50 - 500mm 50 - 1000mm 50 - 1500mm		13mm	3 5 6 8	13, 25, 50mm 13, 25, 50 (2 pcs.), 100mm 13, 25, 50 (2 pcs.), 100, 200mm 13, 25, 50 (2 pcs.), 100, 200 mm 13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.), 300 (2 pcs.)	50 - 63mm

Inch/Metric L					
Order No.	Danas	Decelution	Micrometer	Extension rods	Display unit
Order No.	Range	Kezolution	Micrometer head stroke	Qty Size (inch)	Disp l ay unit
Digimatic (LCD)					
337-102	8" - 9"	.0001"/		- -	
337-303	8" - 40"	0.001 / 0.001mm	1"	6 1", 2", 4" (2 pcs.), 8", 12"	8 - 9"
337-304	8" - 60"	0.001111111		7 1" 2" 4" 8" 12" (3 pcs.)	

Inch					
Order No.	Range	Graduation	Micrometer head stroke		Main unit
Analog 137-211 137-212 137-213 137-214 137-215	2" - 6" 2" - 12" 2" - 20" 2" - 40" 2" - 60"			3 .5", 1", 2" 5 .5", 1", 2" (2 pcs.), 4" 6 .5", 1", 2" (2 pcs.), 4", 8" 8 .5", 1", 2" (2 pcs.), 4", 8" (2 pcs.), 12" 10 .5", 1", 2" (2 pcs.), 4", 8" (3 pcs.), 12" (2 pcs.)	
Annalog (With carbide meast 137-216 137-217 137-218 137-219	ring face) 2" - 6" 2" - 12" 2" - 20" 2" - 40"	.001"	.5"	3 .5", 1", 2" 5 .5", 1", 2" (2 pcs.), 4" 6 .5", 1", 2" (2 pcs.), 4", 8" 8 .5", 1", 2" (2 pcs.), 4", 8" (2 pcs.), 12" 10 .5", 1", 2" (2 pcs.), 4", 8" (3 pcs.), 12" (2 pcs.), 4", 8"	2 - 2.5"

Tubular Inside Micrometers SERIES 137 — Extension Rod Type (main unit)

- Micrometer head for Extension Rod 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.



SPECIFICATIONS

137-011

Metric	l			
Order No.	Range	Graduation	Accuracy	Micrometer head stroke
137-011				
Carbide-tipped	50 - 63mm	0.01mm	±3µm	13mm

Inch L	ı			
Order No.	Range	Graduation	Accuracy	Micrometer head stroke
137-012				
Carbide-tipped 137-014	2" - 2.5"	.001"	±.00015"	.5"

DIMENSIONS

