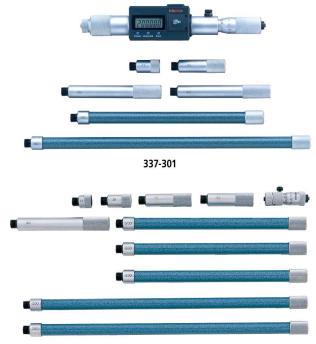
Inside Micrometers

For easy and accurate measurement of inside size and diameter

Tubular Inside Micrometers SERIES 137, 337 — Extension Rod Type



- Wide range of inside measurements possible An inside length standard is required for by combining extension rods and anvils with the micrometer head.
- Two types of measuring faces are available; with or without carbide tip. (Order No. 337-101/301/302/102/303/304 only available with carbide tip)
- The sleeve is rotated to adjust the reference point adjustment when setting to a length standard.
- 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.



137-205

SPECIFICATIONS

Metric	L.						
Order No.	Range (mm)	Resolution	Resolution Micrometer		Extension rods	Display unit	
Order No.	Range (mm)	(mm)	head stroke (mm)	Qty	Size (mm)	(mm)	
Digimatic (LCD)							
337-101	200 - 225			_	_		
337-301	200 - 1000	0.001	25	6	25, 50, 100 (2 pcs.), 200, 300	200 - 225	
337-302	200 - 1500			7	25, 50, 100, 200, 300 (3 pcs.)		
Metric -							
Order No.	Range (mm)	Graduation	Micrometer		Extension rods	Main unit	

Metric	ı.							
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)	Qty	Extension rods Size (mm)	Main unit (mm)		
Analog								
137-201	50 - 150			3	13, 25, 50			
137-202	50 - 300			5	13, 25, 50 (2 pcs.), 100			
137-203	50 - 500		01 13	6	13, 25, 50 (2 pcs.), 100, 200			
137-204	50 - 1000	0.01		13	13	8	13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300	50 - 63
137-205	50 - 1500			10	13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.)			
Analog (With carbide measuring face)								
137-206	50 - 150			3	13, 25, 50			
137-207	50 - 300			5	13, 25, 50 (2 pcs.), 100			
137-208	50 - 500		0.01 13	6	13, 25, 50 (2 pcs.), 100, 200			
137-209	50 - 1000	0.01		8	13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300	50 - 63		
137-210	50 - 1500			10	13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.)			

MeasurLink ENABLED

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

• Spindle feed error 3 µm/0.00015 in

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



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

Technical Data

- Battery and Scale Type (for 337-101/301/302/102/303/304) 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-27 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

Inch / Metric		
	Τ	

Order No.	Range (in)	Resolution	Micrometer head stroke (in)	Qty	Extension rods Size (in)	Display unit (in)
Digimatic (LCD)	Digimatic (LCD)					
337-102	8 - 9	0.0001:-/		_	_	
337-303	8 - 40	0.0001 in/		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 (in)	Graduation (in)	ion Micrometer Extension rods head stroke (in) Oty Size (in)		Main unit (in)			
Analog								
137-211	2 - 6			3	0.5, 1, 2			
137-212	2 - 12				0.5, 1, 2 (2 pcs.), 4			
137-213	2 - 20	0.004	0.5	6	0.5, 1, 2 (2 pcs.), 4, 8	2 25		
137-214	2 - 40	0.001		8	0.5, 1, 2 (2 pcs.), 4, 8 (2 pcs.), 12	2 - 2.5		
137-215	2 - 60			10	0.5, 1, 2 (2 pcs.), 4, 8 (3 pcs.), 12 (2 pcs.)			
Analog (With carbide measuring face)								
137-216	2 - 6			3	0.5, 1, 2			
137-217	2 - 12			5	0.5, 1, 2 (2 pcs.), 4			
137-218	2 - 20	0.001	0.5		0.5, 1, 2 (2 pcs.), 4, 8			
137-219	2 - 40			8	0.5, 1, 2 (2 pcs.), 4, 8 (2 pcs.), 12	2 - 2.5		
137-220	2 - 60			10	0.5, 1, 2 (2 pcs.), 4, 8 (3 pcs.), 12 (2 pcs.)			

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 reference point adjustment when setting to a length standard.
- Optional Setting Rings and Gauge Block Accessory Sets are available as reference gages for datum adjustment. (Refer to pages C-47 and E-17 to E-20 for details)



SPECIFICATIONS

Technical Data

micrometer head

Spindle feed error 3 µm/0.00015 in
Note: "Spindle feed error" refers to the difference between the maximum and minimum indication."

error values within the specification range of the

Metric	ı		
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)
137-011			
Carbide-tipped	50 - 63	0.01	13
137-013			

Inch	(
Order No.	Range (in)	Graduation (in)	Micrometer head stroke (in)
137-012			
Carbide-tipped	2 - 2.5	0.001	0.5
137-014			

DIMENSIONS

