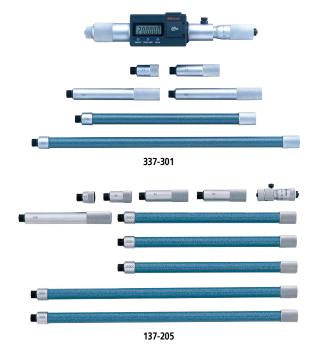
Inside Micrometers

For easy and accurate measurement of inside size and diameter

Tubular Inside Micrometers SERIES 137, 337 — Extension Rod Type

MeasurLink* ENABLED Data Management Software by Mitutoyo

- 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.
- Wide range of inside measurements possible An inside length standard is required for accurately setting the micrometer.
 - Order No. 337-101/301/302/102/303/304
 - 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.



SPECIFICATIONS

ı	Metric -								
Order No.		Range (mm)	Resolution	n Micrometer Extension rods		Extension rods	Display unit		
	order No.	Range (min)	(mm)	head stroke (mm)	Qty	Size (mm)	(mm)		
1	Digimatic (LCD)								
	337-101	200 - 225			-	_			
Ī	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	ı						
Order No. Range (mm)		Graduation		icrometer Extension rods		Main unit	
Order No.	Range (mm)	(mm)	head stroke (mm)	Qty	Size (mm)	(mm)	
Analog							
137-201	50 - 150			3	13, 25, 50		
137-202	50 - 300			5	13, 25, 50 (2 pcs.), 100	50 - 63	
137-203	50 - 500			6	13, 25, 50 (2 pcs.), 100, 200		
137-204	50 - 1000	0.01	13	8	13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300		
137-205	50 - 1500			10	13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.)		
Analog (With carbic	le measuring fa	ace)					
137-206	50 - 150			3	13, 25, 50		
137-207	50 - 300			5	13, 25, 50 (2 pcs.), 100		
137-208	50 - 500			6	13, 25, 50 (2 pcs.), 100, 200		
137-209	50 - 1000	0.01	13	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	
Oudou No	Ranc

Order No.	Range (in)	Resolution	Micrometer head stroke (in)	Extension rods Qty Size (in)		Display unit (in)	
Digimatic (LCD)							
337-102	8 - 9	0.0001 in/		-	_		
337-303	8 - 40	0.0001 III/	1 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.)		

					1, 2, 1, 0, 12 (5 (6.1)		
Inch							
Order No.	Range	Graduation	Micrometer		Extension rods	Main unit	
Order No.	(in)	(in)	head stroke (in)	Qty	Size (in)	(in)	
Analog							
137-211	2 - 6			3	0.5, 1, 2		
137-212	2 - 12			5	0.5, 1, 2 (2 pcs.), 4		
137-213	2 - 20			6 0.5, 1, 2 (2 pcs.), 4, 8	0.5, 1, 2 (2 pcs.), 4, 8	2 25	
137-214	2 - 40	0.001	0.5	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	J.				, , , , , , , , , , , , , , , , , , , ,		
(With carbide mea	suring face)					
137-216	2 - 6			3	0.5, 1, 2		
137-217	2 - 12			5 0.5, 1, 2 (2 pcs.), 4	0.5, 1, 2 (2 pcs.), 4		
137-218	2 - 20			6	0.5, 1, 2 (2 pcs.), 4, 8		
137-219	2 - 40	0.001		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)



137-011

SPECIFICATIONS

Technical Data• Spindle feed error 3 µm/0.00015 in
Note: "Spindle feed error" refers to the difference

micrometer head

between the maximum and minimum indication

error values within the specification range of the

Metric			
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

