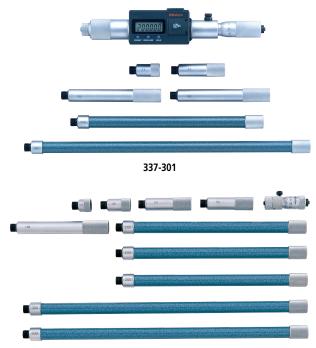
Inside Micrometers

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

- 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	ı							
Order No.	Range (mm)	Resolution		Extension rods		Display unit		
Order No.	Narige (IIIII)	(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.)			
Martin								

Metric	ı								
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)	Qty	Extension rods Size (mm)	Main unit (mm)			
Analog	Analog								
137-201	50 - 150			3	13, 25, 50				
137-202	50 - 300			5	13, 25, 50 (2 pcs.), 100				
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	50 - 63			
137-205	50 - 1500			10	13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.)				
Analog (With carbid	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.



www.tuv.com ID 0000021605

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

incn/ivietric						
Order No.	Range	Resolution	Micrometer		Extension rods	Display unit
Order No.	(in)	Nesolution	head stroke (in)	Qty	Size (in)	(in)
Digimatic (LCD)						
337-102	8 - 9	0.0001:-/		$\left - \right $	_	
337-303	8 - 40	0.0001 in/ 0.001 mm		6	1, 2, 4 (2 pcs.), 8, 12	8 - 9
337-304	8 - 60	0.001 111111		7	1. 2. 4. 8. 12 (3 pcs.)	1

331-304	0 00			_ /	1, 2, 4, 0, 12 (5 pcs.)		
Inch	ı						
Order No.	Range (in)	Graduation (in)	Micrometer head stroke (in)	Qty	Extension rods Size (in)	Main unit (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		
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		`					
(With carbide mea	, ,)	I	١٠	10 5 4 2	ı	
137-216	2 - 6				0.5, 1, 2		
137-217	2 - 12			5	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	0.5	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

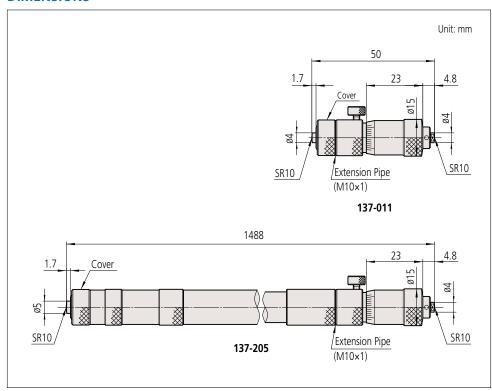
micrometer head

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

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

DIMENSIONS





Inside Micrometers

For easy and accurate measurement of inside size and diameter

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

MeasurLink® ENABLED Data Management Software by Mitutoyo

• Wide range of inside measurements possible by combining Extension Pipes and anvils with the micrometer head.

Carbide measuring faces.

micrometer.

- 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

• 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.

Inch / Motric



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 Ger man certification organization TÜV Rheinland.



www.tuv.com ID 0000021605

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 (139, 339 Series) 6 µm/0.0003 in (**140** Series)

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 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

- Technical Data

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



339-301

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

SPECIFICATIONS

140-158

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

333 30E	200 2000				25, 50, 100, 200 (2 pcs.), 400 (5 pcs.)	
Metric	ı					
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)	Qty	Extension pipes Size (mm)	Main uni (mm)
Analog						
139-173	100 - 500			4	25, 50, 100, 200	
139-174	100 - 900			5	25, 50, 100, 200, 400	100 -
139-175	100 - 1300		25	6	25, 50, 100, 200, 400 (2 pcs.)	125
139-176	100 - 1700			7	25, 50, 100, 200, 400 (3 pcs.)	123
139-177	100 - 2100	0.01		8	25, 50, 100, 200, 400 (4 pcs.)	
140-157	1000 - 2000			5	50, 100 (2 pcs.), 200, 500	
140-158	1000 - 3000		50	6	50, 100 (2 pcs.), 200, 500, 1000	1000 -
140-159	1000 - 4000		50	7	50, 100 (2 pcs.), 200, 500, 1000 (2 pcs.)	1050
140-160	1000 - 5000			Ω	50 100 (2 pcs.) 200 500 1000 (3 pcs.)	

inch/ivietric -						
Order No.	r No. Range (in) Resolutio		Micrometer	licrometer Extension pipes		Display unit
Oraci ito.	nunge (iii)	ricoolation	head stroke (in)	Qty	Size (in)	(in)
Digimatic (LCI))					
339-102	8-9	0 0001 :- /			_	
339-303	8 - 40	0.0001 in/ 0.001 mm		5	1, 2, 4, 8, 16	8-9
339-304	8 - 80	0.001 111111		8	1, 2, 4, 8 (2 pcs.), 16 (3 pcs.)	
Inch						

Inch	ı								
Order No.	Range (in)	Graduation (in)	Micrometer head stroke (in)	Qty	Extension pipes Size (in)	Main unit (in)			
Analog									
139-178	4 - 20			4	1, 2, 4, 8				
139-179	4 - 36			5	1, 2, 4, 8, 16]			
139-180	4 - 52]	1	6	1, 2, 4, 8, 16 (2 pcs.)	4 - 5			
139-181	4 - 68]		7	1, 2, 4, 8, 16 (3 pcs.)				
139-182	4 - 84	0.001		8	1, 2, 4, 8, 16 (4 pcs.)				
140-161	40 - 80			5	2, 4 (2 pcs.), 8, 20				
140-162	40 - 120		2	6	2, 4 (2 pcs.), 8, 20, 40	40 - 42			
140-163	40 - 160		_ Z	7	2, 4 (2 pcs.), 8, 20, 40 (2 pcs.)	40 - 42			
140-164	40 - 200			8	2. 4 (2 pcs.), 8. 20. 40 (3 pcs.)				



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-47, C-26, and E-17 to E-20 for details)



139-001

SPECIFICATIONS

SPECIFICATION	3		
Metric	L		
Order No.	Range (mm)	Graduation (mm)	Micrometer head stroke (mm)
139-001	100 - 125	0.01	25
Inch	ı		
Order No.	Range (in)	Graduation (in)	Micrometer head stroke (in)
139-002	4 - 5	0.001	1

DIMENSIONS

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

