Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

Disk Micrometers SERIES 369, 227, 169 — Non-Rotating Spindle Type

- Measures "root tangent length" of spur gears and helical gears.
- Determination of the root tangent length: refer to "Quick Guide to Precision Measuring Instruments".
- Non-rotating spindle type.

В

• Measurable range of gear pitch: 0.5 to 6 module (series 227: 0.4 to 3 module).



Data Management Software by Mitutoyo

- Equipped with Ratchet Stop for constant measuring force.
- Supplied with a setting standard (except for 0-25 mm / 0-1 in measuring range).





SPECIFICATIONS

369-250-30 0 - 25 mm ±4 μm 4 μm Dinimatic (I CD) 369-251-30 25 - 50 mm ±4 μm 4 μm	suring force
Dinimatic (I CD) 369-251-30 25 - 50 mm ±4 μm 4 μm	
Digimatic (ICD) 309-251-30 25 - 50 mm	
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
369-253-30 75 - 100 mm ±6 μm 20 mm 6 μm	
Quickmike type (LCD) 369-411-20 0 - 30 mm 0.001 mm 1 µm 4 µm	—
369-412-20 25 - 55 mm	
Quickmike type adjustable measuring 227-221-20 0 - 15 mm ±4 μm 14.3 mm 3 μm	5 - 2.5 N
force (LCD) 227-223-20 0 - 10 mm 2 -	- 10 N

* Excluding quantizing error of ± 1 count

Motric

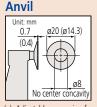
Metric								
	Order No.	Range	Graduation	Accuracy	Anvil dia.	Flatness	Parallelism	Measuring force
Analog	169-201	0 - 25 mm	0.01 mm	±4 μm	- 20 mm	1 µm	4 µm	
	169-202	25 - 50 mm						
	169-205	50 - 75 mm		±6 μm			6 um	
	169-207	75 - 100 mm					ο μπ	

Inch/Metric								
	Order No.	Range	Resolution	Accuracy*	Anvil dia.	Flatness	Parallelism	Measuring force
Digimatic (LCD)	369-350-30	0 - 1 in	0.00005 in/ 0.001 mm	±0.0002 in	20 mm	0.00004 in	0.0002 in	_
	369-351-30	1 - 2 in						
	369-352-30	2 - 3 in		±0.0003 in			0.0003 in	
	369-353-30	3 - 4 in						
Quickmike type (LCD)	369-421-20	0 - 1.2 in		±0.0002 in			0.0002 in	
	369-422-20	1-22 in						

* Excluding quantizing error of ±1 count

Inch							
	Order No.	Range	Graduation	Accuracy	Anvil dia.	Flatness	Parallelism
Analog	169-203	0 - 1 in	0.001 in	±0.0002 in	20 mm	0.00004 in	0.0002 in
	169-204	1 - 2 in					
	169-206	2 - 3 in		±0.0003 in			0.0003 in
	169-208	3 - 4 in					0.0005 111

B-35



(): Adjustable measuring force type

Battery for Series 369 and 227

SR44 (1 pc), 938882, for initial operational checks (standard accessory) Battery life: Approx. 2.4 years under normal use (for series 369-2XX, 3XX) Approx. 5 year under normal use (for series 369-4XX) Approx. 5 years under normal use (for series 227-2XX) Approx. 18,000 hours in continuous use Length standard: Electromagnetic rotary sensor (for series 369-2XX, 3XX) Electrostatic capacity absolute sensor (for series 369-4XX, 2XX) Standard accessories: Reference bar, 1 pc (except for measuring range 0-10 mm / 0-15 mm / 0-25 mm / 0-30 mm (0-1/0-1.2 in) models) Spanner (301336), 1 pc (for series 169-2XX, 369-2XX, 3XX) Screwdriver (No.210183), 1 pc (for series 227-2XX)

Optional Accessories

- Connecting cables for 369, 227 Series
- 1 m: 05CZA662
- 2 m: 05CZA662
- USB Input Tool Direct

USB-ITN-B (2 m): 06AFM380B Wireless data output U-WAVE (fift

U-WAVE-TM 264-622 (IP67 type) 264-623 (Buzzer type) Connecting unit for U-WAVE-TM

02AZF310 (IP67 type) Refer to page A-15 for details

Note: cannot be used with Quickmike type



Quickmike

Provides a speedy spindle feed of 10 mm per thimble rotation, which enables widely differently sized features to be measured quickly.

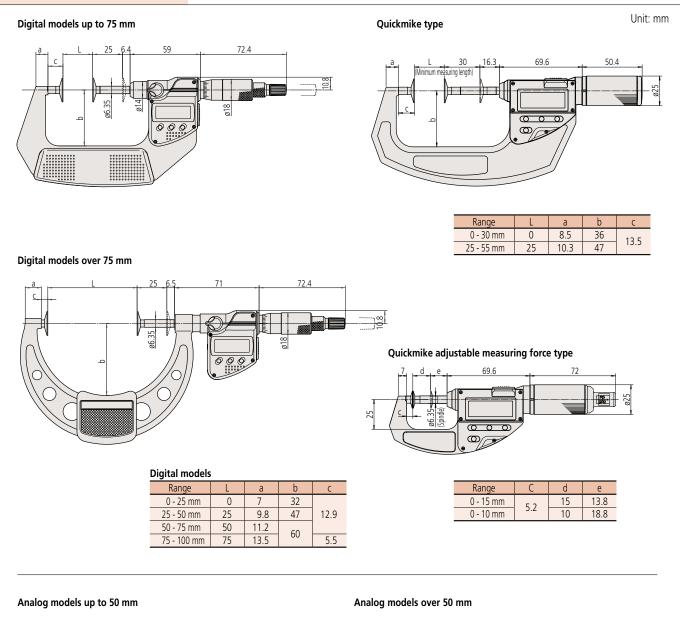
Quickmike Type with Adjustable Measuring Force

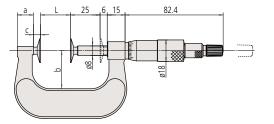
Digimatic micrometer dedicated to applications requiring a constant/low measuring force such as measuring wire, paper, and plastic/rubber parts.

Mitutoyo

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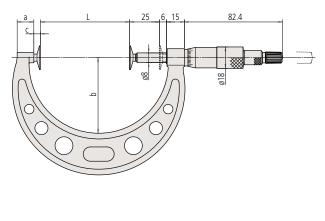
DIMENSIONS





Analog models

Range	L	а	b	С	
0 - 25 mm	0	13.8	25	5.7	
25 - 50 mm	25	15.0	32	5.7	
50 - 75 mm	50	12	49	5.5	
75 - 100 mm	75	14	63	5.5	



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