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.
- Measurable range of gear pitch: 0.5 to 6 module (series 227: 0.4 to 3 module).
- Equipped with Ratchet Stop for constant measuring force.
- Supplied with a setting standard (except for 0-25mm/0-1" measuring range).



SPECIFICATIONS

Metric								
	Order No.	Range	Resolution	Accuracy*	Anvil dia.	Flatness	Parallelism	Measuring force
Digimatic (LCD)	369-250-30	0 - 25mm	0.001mm	±4µm	ø20	1µm	4	
	369-251-30	25 - 50mm					4µm	
	369-252-30	50 - 75mm		±6µm			Euro	
	369-253-30	75 - 100mm					6µm	
Quickmike type (LCD)	369-411	0 - 30mm		±4µm			4µm	
	369-412	25 - 55mm						
Quickmike type adjustable measuring force (LCD)	227-221	0 - 15mm			ø14.3		Зµm	0.5N - 2.5N
	227-223	0 - 10mm						2N - 10N
A Distance and the second								

* Excluding guantizing error Matria

	wetric								
		Order No.	Range	Graduation	Accuracy	Anvil dia.	Flatness	Parallelism	Measuring force
	Analan	169-201	0 - 25mm	0.01mm	±4µm	ø20	1um	4µm	
		169-202	25 - 50mm						
Analog	169-205	50 - 75mm	0.0111111	±6um	020	i pin	6um	_	
		169-207	75 - 100mm		±ομπ			ομπ	

Inch/Metric	I							
	Order No.	Range	Resolution	Accuracy*	Anvil dia.	Flatness	Parallelism	Measuring force
Digimatic (LCD)	369-350-30	0 - 1"	.00005"/ 0.001mm	±.0002"	ø20	.00004"	.0002 "	
	369-351-30	1" - 2"						
	369-352-30	2" - 3"		±.0003"			.0003"	
	369-353-30	3" - 4"						
Quickmike type (LCD)	369-421	0 - 1.2"		±.0002"			.0002"	
	369-422	1" - 2.2"					.0002	_

* Excluding quantizing error

Inch							
	Order No.	Range	Graduation	Accuracy	Anvil dia.	Flatness	Parallelism
Analog	169-203	0 - 1"		±.0002"	ø20	.00004"	0002"
	169-204	1" - 2"	.001"				.0002 "
	169-206	2" - 3"		±.0003"			.0003"
	169-208	3" - 4"	1				.0005

Anvil



(): 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. 1 year under normal use (for series 369-4XX) Approx. 3 years under normal use (for series 227-2XX) 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 0-10mm / 0-15mm / 0-25mm / 0-30mm (0-1"/0-1.2") models)

Spanner (301336), 1 pc (for series 169-2XX, 369-2XX, 3XX) Screwdriver (No 210183), 1pc (for series 227-2XX)

Optional accessories

- Connecting cables for 369-250-30 to 369-253-30, 369-350-30 to 369-353-30 1m: 05CZA662
- 2m: 05CZA663
- USB Input Tool Direct
- USB-ITN-B (2m): **06ADV380B** SPC cables for U-WAVE w/ data switch (160mm): 02AZD790B
- For foot switch: 02AZE140B
- (Refer to page B-68 for details.) SPC cables for Quickmike and micrometers with adjustable measuring force device 937387:SPC cable (1m)* 965013:SPC cable (2m)*
- only for Quickmike and micrometers with adjustable measuring force device 06ADV380E : USB Input Tool Direct with data switch(2m)
- 02AZD790E : SPC cable for U-WAVE (160mm) For footswitch: **02AZE140E**



Quickmike

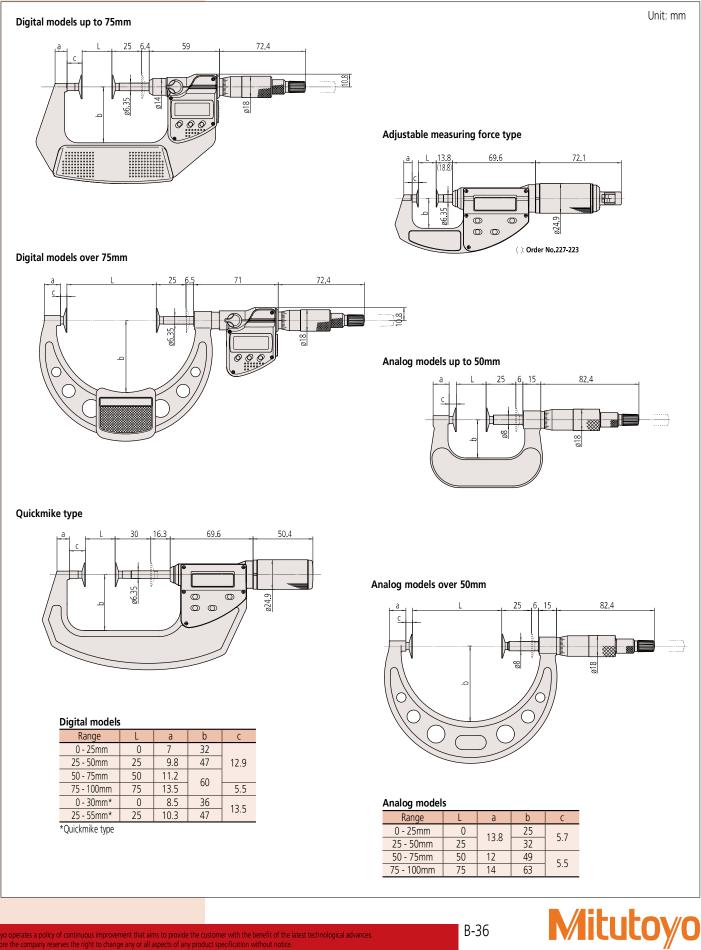
Provides a speedy spindle feed of 10mm per thimble rotation, which enables widely differently sized features to be measured quickly.

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.



DIMENSIONS



В

Mitutoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances. Therefore the company reserves the right to change any or all aspects of any product specification without notice.