

Mitutoyo



MEASURING INSTRUMENTS CATALOG



Micrometer

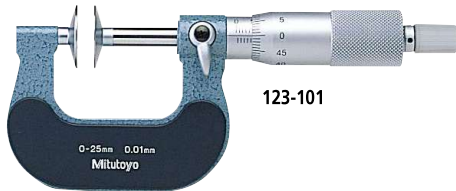
The origin of Mitutoyo's trustworthy brand of small tool instruments

Disk Micrometers SERIES 323, 223, 123

MeasurLink ENABLED
Data Management Software by Mitutoyo

- Measures "root tangent length" of spur gears and helical gears.
- Determination of the root tangent length: refer to "Quick Guide to Precision Measuring Instruments" on page B-72.

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



123-101



323-250-30



123-103

SPECIFICATIONS

Metric					
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (μm)	Anvil dia. (mm)	Measurable module
Digimatic (LCD)					
323-250-30	0 - 25	0.001	±4	ø20	0.5 - 6
323-251-30	25 - 50		±6		
323-252-30	50 - 75				
323-253-30	75 - 100				

Metric					
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μm)	Anvil dia. (mm)	Measurable module
Mechanical counter model					
223-101	0 - 25	0.01	±4	ø20	0.5 - 6
223-102	25 - 50				
Analog					
123-101	0 - 25	0.01	±4	ø20	0.5 - 6
123-113*					
123-102	25 - 50				
123-114*					
123-103	50 - 75				
123-115*					
123-104	75 - 100				
123-116*					
123-105	100 - 125		±7	ø30	0.7 - 11
123-106	125 - 150				
123-107	150 - 175	±8			
123-108	175 - 200				
123-109	200 - 225	±9			
123-110	225 - 250				
123-111	250 - 275				
123-112	275 - 300				

* The measuring disks have carbide tips.

Optional connecting cable is available only for water-proof type (Digimatic model).

Note 2: Root tangent length measurement is not available for some types of gears.

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink



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 (series 323)

Level 6: Dust-proof.

No ingress of dust allowed.

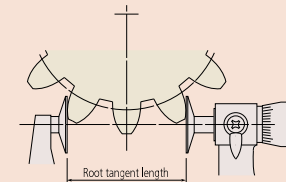
Level 5: Protected against water jets.

Water projected in jets against the enclosure from any direction shall have no harmful effects.

Technical Data

- Flatness:
 - Measuring range 0 to 100: 1 μm
 - Measuring range 100 to 300: 1.6 μm
- Parallelism:
 - Measuring range 0 to 50: 4 μm
 - Measuring range 50 to 100: 6 μm
 - Measuring range 100 to 150: 7 μm
 - Measuring range 150 to 225: 8 μm
 - Measuring range 225 to 300: 9 μm

Root Tangent Length of Gear (En)



Technical Data

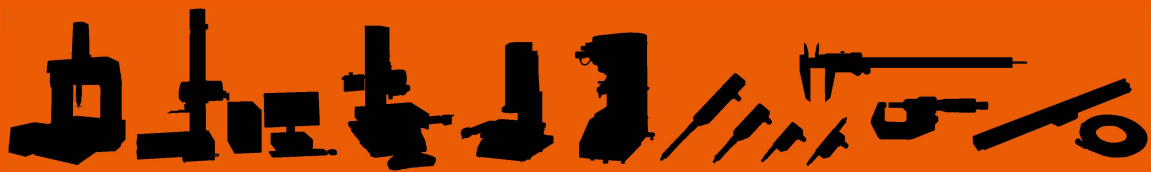
- Battery for series 323
 - SR44 (1 pc.), 938882, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for series 323)
- Length standard: Electromagnetic rotary sensor (for series 323)
- Standard accessories: Reference bar, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
- Spanner (301336), 1 pc.

Optional Accessories for Series 323

- Connecting cables
 - 1 m: 05CZA662
 - 2 m: 05CZA663
- USB Input Tool Direct
 - USB-ITN-B (2 m): 06AFM380B
- U-WAVE-T dedicated connection cable
 - 160 mm: 02AZD790B

Wireless Data Output U-WAVE

- U-WAVE-TM 264-622 (IP67 type)
 - 264-623 (Buzzer type)
- U-WAVE-TMB Transmitter
 - Mitutoyo Bluetooth® U-WAVE
 - 264-626 (IP type)
 - 264-627 (Buzzer type)
 - Refer to page A-16 for details.
- Connecting unit for U-WAVE-TM/TMB
 - 02AZF310 (IP67/buzzer type common specification)



FOR MORE INFORMATION PLEASE CONTACT:



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