Micrometer

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

Disk Micrometers SERIES 323, 223, 123

- Measures "root tangent length" of spur gears and helical gears.
- Determination of the root tangent length: refer to "Quick Guide to Precision Measuring Instruments".
- Equipped with Ratchet Stop for constant measuring force.
- Supplied with a setting standard (except for 0-25mm/0-1" measuring range).



323-250-30

.00005"/

.001"

Order No. Range Resolution Accuracy* Anvil dia. Measurable module

±.0002

±.0003

Order No. Range Graduation Accuracy Anvil dia. Measurable module

±.0002"

±.0002

±.0003'

.787"

.787"

.787"

0.5 - 6

0.5 - 6

0.5 - 6

Inch/Metric

Digimatic (LCD) 323-350-30 0 - 1 "

323-351-30 1" - 2"

323-353-30 3" - 4"

123-126 1" - 2"

123-127 2" - 3"

123-128 3" - 4"

Inch

Analog 123-125 0 - 1"

323-352-30 2" - 3" 0.001mm

* Excluding quantizing error

Mechanical counter model

223-125 0 - 1" .001"

SPECIFICATIONS

Metric								
Order No.	Range	Resolution	Accuracy*	Anvil dia.	Measurable module			
Digimatic (LCD)								
323-250-30	0 - 25mm	0.001mm	±4µm	ø20mm	0.5 - 6			
	25 - 50mm							
323-252-30	50 - 75mm		±6µm					
	75 - 100mm							

* Excluding quantizing error

Motric

wetric									
Order No.	Range	Graduation	Accuracy	Anvil dia.	Measurable module				
Mechanical counter model									
223-101	0 - 25mm	0.01mm	±4µm	ø20mm	0.5 - 6				
223-102	25 - 50mm	0.0111111							
Analog									
123-101	0 - 25mm	0.01mm	±4µm	ø20mm	0.5 - 6				
123-113*									
123-102	25 - 50mm								
123-114*									
123-103	50 - 75mm		±6µm						
123-115*									
123-104	75 - 100mm								
123-116*									
123-105	100 - 125mm		±7µm	ø30mm	0.7 - 11				
123-106	125 - 150mm								
123-107	150 - 175mm		±8µm						
123-108	175 - 200mm								
123-109	200 - 225mm								
123-110	225 - 250mm		±9µm						
123-111	250 - 275mm								
123-112	275 - 300mm								

* The measuring disks have carbide tips.



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.



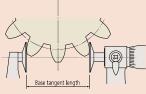
IP Codes (series 323)

- 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: 1µm/.00004" for models up to 100mm/4" 1.6µm/.000063" for models over 100mm/4" Parallelism: 4µm for models up to 50mm .0002" for models up to 2" 6µm for models up to 2" 6µm for models up to 4" .0003" for models up to 4" (5+R/75)µm for models over 100mm, R = max. range (mm) fraction rounded up

Root tangent length of gear (En)





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 0-25mm (0-1") models) Spanner (301336), 1 pc

Optional accessories for series 323

Connecting cables 1m: 05CZA662 2m: 05CZA663 USB Input Tool Direct USB-ITN-B (2m): 06ADV380B Connecting cables for U-WAVE-T 02AZD790B 160mm

02AZD790B 160mm For foot switch: 02AZE140B Refer to page B-68 for details.

DIMENSIONS

