

# Micrometer

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

## Caliper Type Micrometers SERIES 343, 143

- Effective for measuring workpiece features where access is difficult.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force.



### SPECIFICATIONS

Metric			
Order No.	Range	Resolution	Accuracy*
Digimatic (LCD)			
343-250-30	0 - 25mm	0.001mm	±5μm
343-251-30	25 - 50mm		±6μm
343-252-30	50 - 75mm		±7μm
343-253-30	75 - 100mm		±8μm

\* Excluding quantizing error

Metric			
Order No.	Range	Graduation	Accuracy
Analog			
143-101	0 - 25mm	0.01mm	±5μm
143-102	25 - 50mm		±6μm
143-103	50 - 75mm		±7μm
143-104	75 - 100mm		±8μm
143-105	100 - 125mm		±9μm
143-106	125 - 150mm		±10μm
143-107	150 - 175mm		±10μm
143-108	175 - 200mm		±11μm
143-109	200 - 225mm		±11μm
143-110	225 - 250mm		±12μm
143-111	250 - 275mm		±12μm
143-112	275 - 300mm	±12μm	

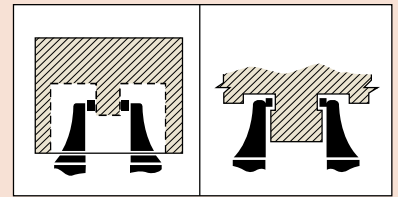
Inch/Metric			
Order No.	Range	Resolution	Accuracy*
Digimatic (LCD)			
343-350-30	0 - 1"	.00005" / 0.001mm	±0.0025"
343-351-30	1" - 2"		±0.003"
343-352-30	2" - 3"		±0.0035"
343-353-30	3" - 4"		±0.004"

\* Excluding quantizing error

Inch			
Order No.	Range	Graduation	Accuracy
Analog			
143-121	0 - 1"	.001"	±0.0025"
143-122	1" - 2"		±0.003"
143-123	2" - 3"		±0.0035"

### Technical Data

Flatness: 0.3μm/0.00012"  
 Parallelism: (3+R/75)μm, R = max. range (mm)  
 [.00012"+.00004(R/3)]" R = max. range (inch)  
 fraction rounded down



### Battery for series 343

SR44 (1 pc), 938882, for initial operational checks (standard accessory)  
 Battery life: Approx. 2.4 years under normal use (for series 343)  
 Length standard: Electromagnetic rotary sensor (for series 343)  
 Standard accessories: Reference bar, 1 pc  
 (except for measuring range 0-25mm (0-1") models)  
 Spanner (301336), 1 pc

### Optional accessories for series 343

Connecting cables  
 1m: 05CZA662  
 2m: 05CZA663  
**USB Input Tool Direct**  
**USB-ITN-B (2m): 06ADV380B**  
 Connecting cables for **U-WAVE-T**  
**02AZD790B** 160mm  
 For foot switch: **02AZE140B**  
 Refer to page B-68 for details.

### DIMENSIONS

