

# Inside Micrometers

For easy and accurate measurement of inside size and diameter

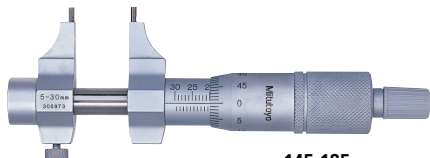
## Inside Micrometers SERIES 345, 145 — Caliper Type

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

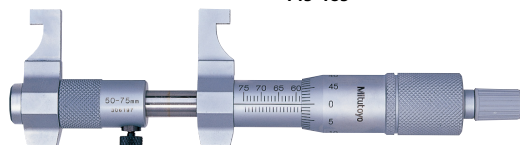
- Caliper type inside micrometer equipped with round pin or anvil type jaws, according to model.
- Carbide measuring faces.
- Equipped with a constant measuring-force device.
- Optional Setting Rings (nominal size below 300 mm), CERA Inside Micro Checker (more than 25mm) and Gauge Block Accessory Sets are available as reference gages for datum adjustment (refer to page C-47, C-26, and E-17 to E-20 for details).



345-250-30



145-185



145-187

## SPECIFICATIONS

Metric					
Order No.	Range	Resolution	Accuracy*	Jaw	Mass
Digimatic (LCD)					
345-250-30	5 - 30 mm	0.001 mm	±5 μm	Pin	320 g
345-251-30	25 - 50 mm		±6 μm	Anvil	325 g

Inch/Metric					
Order No.	Range	Resolution	Accuracy*	Jaw	Mass
Digimatic (LCD)					
345-350-30	0.2 - 1.2 in	0.00005 in/	±0.00025 in	Pin	320 g
345-351-30	1 - 2 in	0.001 mm	±0.0003 in	Anvil	325 g

\* Excluding quantizing error

Note: For the functions, refer to 293 Series with SPC data output on page B-8.

This model is NOT waterproof. Also, the origin setting is the free preset type.

Metric					
Order No.	Range	Graduation	Accuracy	Jaw	Mass
Analog					
145-185	5 - 30 mm	0.01 mm	±5 μm	Pin	130 g
145-186	25 - 50 mm		±6 μm	Anvil	140 g
145-187	50 - 75 mm		±7 μm	Anvil	160 g
145-188	75 - 100 mm		±8 μm	Anvil	180 g
145-189	100 - 125 mm		±9 μm	Anvil	210 g
145-190	125 - 150 mm		±10 μm	Anvil	230 g
145-191	150 - 175 mm		±10 μm	Anvil	250 g
145-192	175 - 200 mm		±10 μm	Anvil	270 g
145-217	200 - 225 mm		±11 μm	Anvil	310 g
145-218	225 - 250 mm		±11 μm	Anvil	330 g
145-219	250 - 275 mm		±12 μm	Anvil	350 g
145-220	275 - 300 mm		±12 μm	Anvil	370 g

Inch					
Order No.	Range	Graduation	Accuracy	Jaw	Mass
Analog					
145-193	0.2 - 1.2 in	0.001 in	±0.00025 in	Pin	130 g
145-194	1 - 2 in		±0.0003 in	Anvil	140 g
145-195	2 - 3 in		±0.00035 in	Anvil	160 g
145-196	3 - 4 in		±0.0004 in	Anvil	180 g

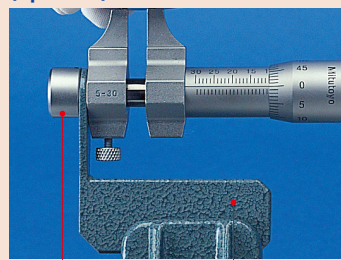
\* The minimum pitch circle measurement is ø5 mm with pin types (145-185 and 345-250-30).

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



## Accessories for 145-185/186/193/194 (optional)



Cap (300401)

Holder (300400)

\* This instrument requires the cap and the holder for mounting on a micrometer stand.

\* It may not be applicable to a custom specification.

## Battery and Scale Type (for 345-250-30/251-30/350-30/351-30)

SR44 (1 pc), **938882**, for initial operational checks (standard accessory)

Battery life: Approx. 2.4 years under normal use  
Scale type: Electromagnetic induction-type rotary encoder

## Optional Accessories

Refer to page A-25 for details

Connecting cables for Input Tool/ Digimatic Mini-Processor, etc.

1 m: **05CZA662**

2 m: **05CZA663**

**USB Input Tool Direct (2 m): 06AFM380B**

Connecting cables for **U-WAVE-T**

For standard (160 mm): **02AZD790B**

For foot switch: **02AZE140B**

## DIMENSIONS

Unit: mm

