

# Inside Micrometers

For easy and accurate measurement of inside size and diameter

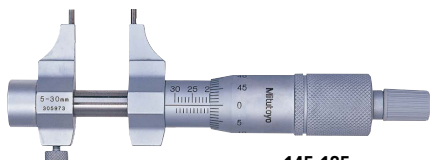
## Inside Micrometers SERIES 345, 145 — Caliper Type

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

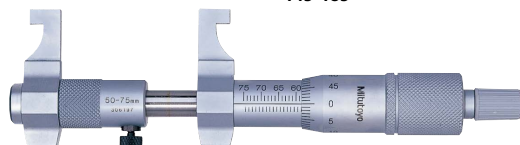
- Caliper type inside micrometer equipped with round pin or anvil type jaws, according to model.
- Carbide measuring faces.
- Equipped with a constant measuring-force device.
- Optional Setting Rings (nominal size below 300 mm), CERA Inside Micro Checker (more than 25 mm) and Gauge Block Accessory Sets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



345-250-30



145-185



145-187

### SPECIFICATIONS

Metric						
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error $J_{MPE}$ (μm)	Jaw	Mass (g)	
Digimatic (LCD)						
345-250-30	5 - 30	0.001	±5	Pin	320	
345-251-30	25 - 50		±6	Anvil	325	

Inch/Metric						
Order No.	Range (in)	Resolution	Maximum permissible error $J_{MPE}$ (in)	Jaw	Mass (g)	
Digimatic (LCD)						
345-350-30	0.2 - 1.2	0.00005 in/ 0.001 mm	±0.00025	Pin	320	
345-351-30	1 - 2		±0.0003	Anvil	325	

Note: For the functions, refer to **293** Series with SPC data output on page B-8.  
This model is NOT water-proof. Also, the origin setting is the free preset type.

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

Inch						
Order No.	Range (in)	Graduation (in)	Maximum permissible error $J_{MPE}$ (in)	Jaw	Mass (g)	
Analog						
145-193	0.2 - 1.2	0.001	±0.00025	Pin	130	
145-194	1 - 2		±0.0003	Anvil	140	
145-195	2 - 3		±0.00035	Anvil	160	
145-196	3 - 4		±0.0004	Anvil	180	

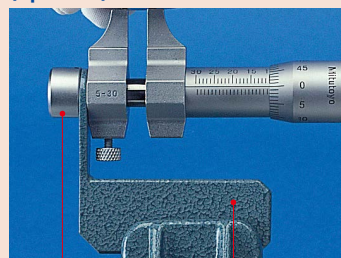
Note: The minimum pitch circle measurement is  $\varnothing 5$  mm with pin types (145-185 and 345-250-30).

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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)

Note 1: This instrument requires the cap and the holder for mounting on a micrometer stand.  
Note 2: It may not be applicable to a custom specification.

### Technical Data

- 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-27 for details.
- Connecting cables with **IT/DP/MUX**, 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

