

Mitutoyo



MEASURING INSTRUMENTS CATALOG



Micrometer

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

Tube Micrometers SERIES 395, 115, 295

MeasurLink ENABLED
Data Management Software by Mitutoyo

- Measuring faces: Carbide.
(**115-101**: only the spindle is carbide tipped.)
- series 395**: IP65 digital spherical-flat anvil type micrometer.
- Equipped with Ratchet Stop for constant measuring force.



SPECIFICATIONS

Metric				
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (μ m)	ϕ D
Digimatic (LCD)				
395-251-30	0 - 25	0.001	± 2	$\phi 15$
395-252-30	25 - 50			$\phi 19$
395-253-30	50 - 75		± 3	$\phi 20$
395-254-30	75 - 100			$\phi 20$

Metric				
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μ m)	$\varnothing$ D
Analog				
115-101	0 - 15	0.01	± 3	$\varnothing 5.5$
115-115	0 - 25			$\varnothing 10$
115-116	25 - 50			$\varnothing 11$
115-117	50 - 75			$\varnothing 17$
115-118	75 - 100		± 4	$\varnothing 18$
Mechanical counter model				
295-115	0 - 25		± 3	$\varnothing 10$

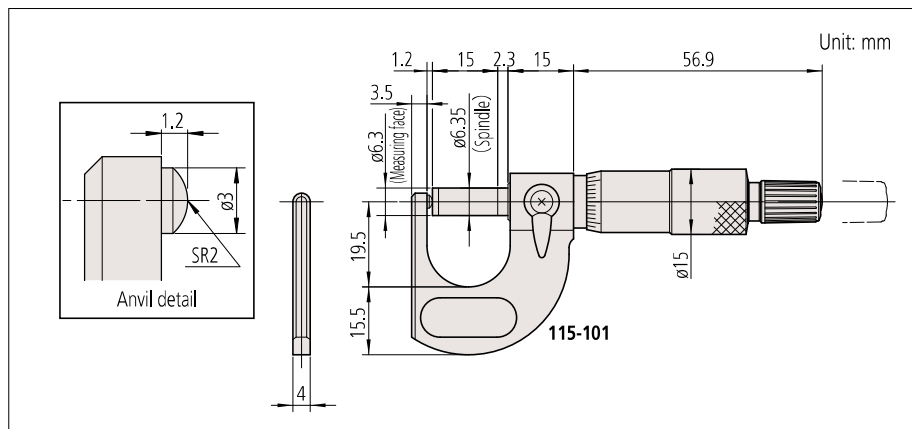
Note: For functional details of **series 395** refer to page B-8.

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

Inch / Metric				
Order No.	Range (in)	Resolution	Maximum permissible error J_{MPE} (in)	ϕ D (in)
Digimatic (LCD)				
395-351-30	0 - 1	0.00005 in/ 0.001 mm	± 0.0001	$\phi 0.59$
395-352-30	1 - 2			$\phi 0.75$
395-353-30	2 - 3		± 0.00015	$\phi 0.79$
395-354-30	3 - 4			$\phi 0.79$

Inch				
Order No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)	ϕ D (in)
Analog				
115-153	0 - 1	0.0001	± 0.00015	$\phi 0.40$
Mechanical counter model				
295-153	0 - 1	0.0001	± 0.00015	$\phi 0.40$

DIMENSIONS



MeasurLink ENABLED
Data Management Software by Mitutoyo

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 395)

Level 6: Dust-proof.

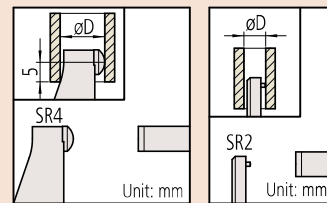
No ingress of dust allowed.

Level 5: Protected against water jets.

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

Technical Data

- Flatness: 0.6 μ m/0.000024 in (**series 115 & 295**)
0.3 μ m/0.000012 in (**series 395**)



Other than **115-101**

115-101

Technical Data

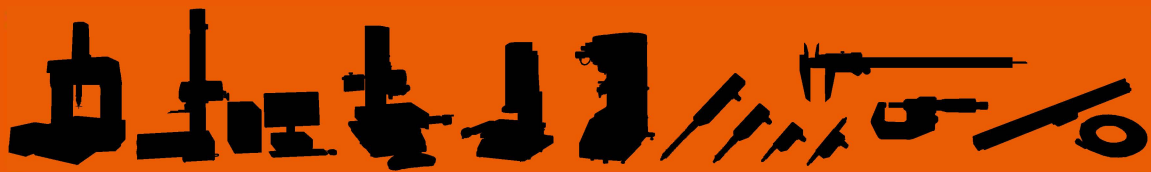
- Battery for **series 395**
SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for **series 395**)
- Length standard: Electromagnetic rotary sensor (for **series 395**)
- Standard accessories: Reference bar, 1 pc.
(except for measuring range 0 to 15 mm/0 to 25 mm (0 to 1 in) models)
Spanner (**200168**), 1 pc. (for **series 115-101**)
Spanner (**301336**), 1 pc. (for models other than **series 115-101**)

Optional Accessories

- Connecting cables for **series 395**
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**
For foot switch: **02AZE140B**

Wireless Data Output **U-WAVE** fit

- 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)
- Connecting unit for **U-WAVE-TM/TMB**
02AF310 (IP67/buzzer type common specification)



FOR MORE INFORMATION PLEASE CONTACT:



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