



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



Dust- and Water-Protected
www.tlv.com
ID 0000040191

Applicable models: **series 317**

IP Codes (series 317)

- 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

- Battery for **series 317**
SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for **series 317**)
- Length standard: Electromagnetic rotary sensor (for **series 317**)
- Standard accessories: Reference bar, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
Spanner (**200877**), 1 pc. (for **117-XXX**)
Spanner (**301336**), 1 pc. (for **317-XXX**)

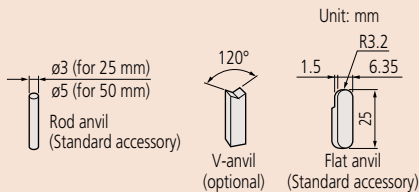
Optional Accessories

- Connecting cables (**series 317**)
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**
Refer to page A-21 for details.

Wireless Data Output U-WAVE^{BT}

- U-WAVE-TM 264-622** (IP67 type)
264-623 (Buzzer type)
- U-WAVE-TMB** Transmitter
Mitutoyo Bluetooth[®] U-WAVE 264-626 (IP67 type)
264-627 (Buzzer type)
Refer to page A-10 for details.
- Connecting unit for **U-WAVE-TM/TMB 02AZF310** (IP67/buzzer type common specification)
Refer to pages A-10 and A-12 for details.

Accessories



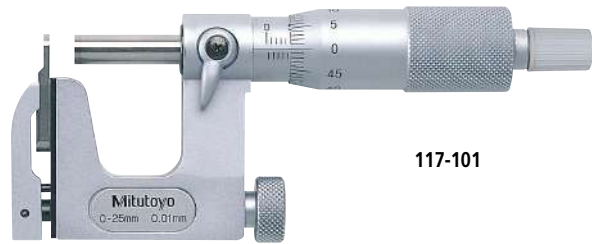
| Order No. | Item |
|---------------|--|
| 201216 | Flat anvil (standard accessory) |
| 201217 | Rod anvil (standard accessory for 117-101/117-107/317-251-30/317-351-30) |
| 201379 | Rod anvil (standard accessory for 117-102/117-108/317-252-30/317-352-30) |
| 201218 | V-anvil (optional) |
| 950758 | Round Base for series 117 , for 0-25 mm $\phi 58 \times 14.2$ mm (optional) |

"Uni-Mike" SERIES 317, 117 — Interchangeable Anvil Type

- A selection of interchangeable anvils (rod anvils and V-anvils) enables measurement of tube thickness, rivet head height and similar features just by replacing the anvil to suit.
- IP65 water/dust protection (**series 317**).
- Equipped with Ratchet Stop for constant measuring force.



317-251-30



117-101

SPECIFICATIONS

| Metric | | | | | |
|-------------------|------------|-----------------|--------------------------------------|---------------------------------------|-------------------------------|
| Order No. | Range (mm) | Resolution (mm) | Spindle feed error (μm) | Flatness (μm) | Parallelism (μm) |
| Digimatic (LCD) | | | | | |
| 317-251-30 | 0 - 25 | 0.001 | 3 | 0.6 (Spindle face)/ 2 (Anvil face) | 3 |
| 317-252-30 | 25 - 50 | | | | |

| Metric | | | | | |
|----------------|------------|-----------------|--------------------------------------|---------------------------------------|-------------------------------|
| Order No. | Range (mm) | Graduation (mm) | Spindle feed error (μm) | Flatness (μm) | Parallelism (μm) |
| Analog | | | | | |
| 117-101 | 0 - 25 | 0.01 | 3 | 0.6 (Spindle face)/ 2 (Anvil face) | 3 |
| 117-102 | 25 - 50 | | | | |

| Inch / Metric | | | | | |
|-------------------|------------|---------------------|-------------------------|--|------------------|
| Order No. | Range (in) | Resolution | Spindle feed error (in) | Flatness (in) | Parallelism (in) |
| Digimatic (LCD) | | | | | |
| 317-351-30 | 0 - 1 | 0.00005 in/0.001 mm | 0.00015 | 0.000024 (Spindle face)/ 0.00008 (Anvil face) | 0.00012 |
| 317-352-30 | 1 - 2 | | | | |

| Inch | | | | | |
|----------------|------------|-----------------|-------------------------|--|------------------|
| Order No. | Range (in) | Graduation (in) | Spindle feed error (in) | Flatness (in) | Parallelism (in) |
| Analog | | | | | |
| 117-107 | 0 - 1 | 0.0001 | 0.00015 | 0.000024 (Spindle face)/ 0.00008 (Anvil face) | 0.00012 |
| 117-108 | 1 - 2 | | | | |

Note: For functional details of **series 317** refer to page B-8.
Optional connecting cable is available only for water-proof type (Digimatic model).

DIMENSIONS

