

Gear Tooth Micrometers

SERIES 324, 124 — Interchangeable Ball Anvil-Spindle Tip Type



FEATURES

- IP65 water/dust protection (324 series).
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces.
- With a standard bar except 0 - 25mm and 0 - 1" model
- Interchangeable ball anvil-spindle tips for various gear modules (0.5 - 5.25) are optional.
- With Ratchet Stop for constant force.
- With SPC output (Series 324).
- Supplied in fitted plastic case (0 - 150mm / 4" model 008 150mm model are wooden case).



324-351-10
Shown with optional ball anvils



124-173
Shown with optional ball anvils

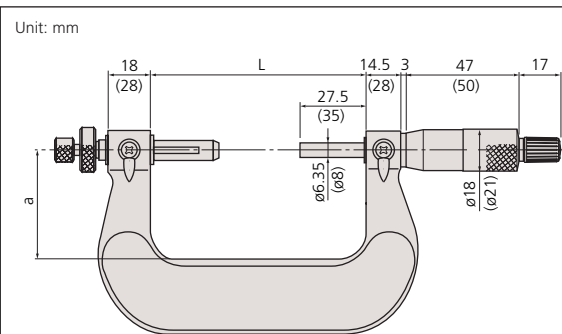
SPECIFICATIONS

| Metric | | Digital model | | |
|------------|------------|-------------------|----------|----------|
| Range | Resolution | Order No. | Accuracy | Mass (g) |
| 0 - 25mm | 0.001mm | 324-251-10 | ±4µm | 400 |
| 25 - 50mm | 0.001mm | 324-252-10 | ±4µm | 490 |
| 50 - 75mm | 0.001mm | 324-253-10 | ±4µm | 530 |
| 75 - 100mm | 0.001mm | 324-254-10 | ±5µm | 600 |

| Inch/Metric | | Digital model | | |
|---------------------|-----------------|-------------------|----------|----------|
| Range | Resolution | Order No. | Accuracy | Mass (g) |
| 0 - 1" / 0 - 25mm | .00005"/0.001mm | 324-351-10 | ±.0002" | 400 |
| 1 - 2" / 25 - 50mm | .00005"/0.001mm | 324-352-10 | ±.0002" | 490 |
| 2 - 3" / 50 - 75mm | .00005"/0.001mm | 324-353-10 | ±.0002" | 530 |
| 3 - 4" / 75 - 100mm | .00005"/0.001mm | 324-354-10 | ±.00025" | 600 |

| Metric | | | | |
|-------------|------------|----------------|----------|----------|
| Range | Graduation | Order No. | Accuracy | Mass (g) |
| 0 - 25mm | 0.01mm | 124-173 | ±4µm | 295 |
| 25 - 50mm | 0.01mm | 124-174 | ±4µm | 400 |
| 50 - 75mm | 0.01mm | 124-175 | ±4µm | 460 |
| 75 - 100mm | 0.01mm | 124-176 | ±5µm | 540 |
| 100 - 125mm | 0.01mm | 124-177 | ±5µm | 640 |
| 125 - 150mm | 0.01mm | 124-178 | ±5µm | 760 |
| 150 - 175mm | 0.01mm | 124-179 | ±6µm | 900 |
| 175 - 200mm | 0.01mm | 124-180 | ±6µm | 1060 |
| 200 - 225mm | 0.01mm | 124-181 | ±6µm | 1230 |
| 225 - 250mm | 0.01mm | 124-182 | ±7µm | 1430 |
| 250 - 275mm | 0.01mm | 124-183 | ±7µm | 1620 |
| 275 - 300mm | 0.01mm | 124-195 | ±7µm | 2070 |

DIMENSIONS AND MASS



(): 275-300mm model

| Range | L | a | Mass (g) |
|-------------|-------|-----|----------|
| 0 - 25mm | 64.5 | 32 | 295 |
| 25 - 50mm | 90 | 45 | 400 |
| 50 - 75mm | 115.6 | 65 | 460 |
| 75 - 100mm | 140.6 | 79 | 540 |
| 100 - 125mm | 165.6 | 93 | 640 |
| 125 - 150mm | 190.5 | 105 | 760 |
| 150 - 175mm | 215.5 | 120 | 900 |
| 175 - 200mm | 240.5 | 130 | 1060 |
| 200 - 225mm | 265.5 | 147 | 1230 |
| 225 - 250mm | 290.5 | 165 | 1430 |
| 250 - 275mm | 315.5 | 171 | 1620 |
| 275 - 300mm | 353 | 187 | 2070 |

Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.001mm or .00005"/0.001mm
Graduation**: 0.01mm
Display*: LCD
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 1.2 years under normal use
Dust/Water protection level*: IP65
*Digital models **Analog models

Function of Digital Model

Zero / ABS, Data hold, Data output, Preset, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error
Function Lock
2 Presets

Optional Accessories

- 05CZA662**: SPC cable with data switch (1m / 40")*
 - 05CZA663**: SPC cable with data switch (2m / 80")*
- *Only for digital models

Interchangeable ball anvil-spindle tip set:



| Diameter of ball anvil | Order No. | Gear module | Diametral pitch |
|------------------------|-----------------|-------------|-----------------|
| 0.8mm | 124-801* | 0.5 - 0.55 | 50 |
| 1mm | 124-802* | 0.6 - 0.65 | 45 |
| 1.191mm (3/64") | 124-803* | 0.7 - 0.8 | 35 - 30 |
| 1.5mm | 124-821* | 0.9 - 1 | 28 - 26 |
| 1.588mm (1/16") | 124-804* | 0.9 - 1 | 28 - 26 |
| 2mm | 124-805* | 1.25 | 22 |
| 2.381mm (3/32") | 124-806 | 1.5 | 17 |
| 2.5mm | 124-822 | 1.5 | 17 |
| 3mm | 124-807 | 1.75 | 15 |
| 3.175mm (1/8") | 124-808 | — | 14 |
| 3.5mm | 124-823 | 2 | 13 |
| 3.969mm (5/32") | 124-809 | 2 | 13 |
| 4mm | 124-810 | 2.25 | 11 |
| 4.5mm | 124-824 | 2.5 | 10 |
| 4.763mm (3/16") | 124-811 | 2.5 | 10 |
| 5mm | 124-812 | 2.75 | 9 |
| 5.556mm (7/32") | 124-813 | 3.0 - 3.25 | 8 |
| 6mm | 124-814 | 3.5 | 7 |
| 6.35mm (1/4") | 124-815 | 3.75 | 7 |
| 7mm | 124-816 | 4.0 | 6.5 |
| 7.144mm (9/32") | 124-817 | 4.25 | 6 |
| 7.938mm (5/16") | 124-818 | 4.5 | 5.5 |
| 8mm | 124-819 | 4.75 | 5.5 |
| 8.731mm (11/32") | 124-820 | 5.0 - 5.25 | 5 |

*Carbide-tipped type