

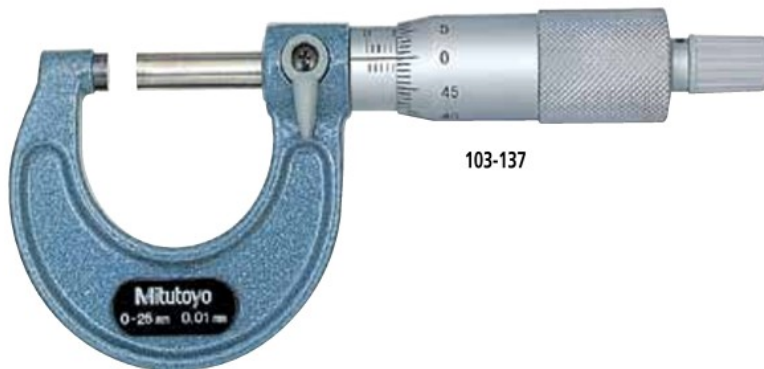
Outside Micrometers

SERIES 103



FEATURES

- Hammertone, baked-enamel-finished frame.
- Ratchet stop for exact repetitive readings.
- With a standard bar except for 0-25mm model.



103-137

Technical Data

Graduation: 0.01mm, 0.001mm
 Flatness: 0.6 μm for models up to 300mm/12"
 1 μm for models over 300mm/12"
 Parallelism: (2+R/100)μm, R=max. range (mm)
 Measuring faces: Carbide tipped

SPECIFICATIONS

Metric With ratchet stop

| Range | Order No. | Accuracy | Mass (g) |
|-------------|------------|----------|----------|
| 0 - 25mm | 103-137 | ±2μm | 175 |
| | 103-129* | ±2μm | 175 |
| 25 - 50mm | 103-138 | ±2μm | 215 |
| | 103-130* | ±2μm | 215 |
| 50 - 75mm | 103-139-10 | ±2μm | 315 |
| 75 - 100mm | 103-140-10 | ±3μm | 375 |
| 100 - 125mm | 103-141-10 | ±3μm | 515 |
| 125 - 150mm | 103-142-10 | ±3μm | 665 |
| 150 - 175mm | 103-143-10 | ±4μm | 720 |
| 175 - 200mm | 103-144-10 | ±4μm | 920 |
| 200 - 225mm | 103-145-10 | ±4μm | 1080 |
| 225 - 250mm | 103-146-10 | ±5μm | 1255 |
| 250 - 275mm | 103-147-10 | ±5μm | 1405 |
| 275 - 300mm | 103-148-10 | ±5μm | 1565 |
| 300 - 325mm | 103-149 | ±6μm | 1985 |
| 325 - 350mm | 103-150 | ±6μm | 2155 |
| 350 - 375mm | 103-151 | ±6μm | 2305 |
| 375 - 400mm | 103-152 | ±7μm | 2455 |
| 400 - 425mm | 103-153 | ±7μm | 2715 |
| 425 - 450mm | 103-154 | ±7μm | 2965 |
| 450 - 475mm | 103-155 | ±8μm | 3215 |
| 475 - 500mm | 103-156 | ±8μm | 3450 |

(Models with a range up to 1000mm are available.)

*0.001mm reading is obtained with vernier.

DIMENSIONS AND MASS

Up to 300mm / 12"

| Range | L | a | b | c |
|------------------------|-------|-----|----|-----|
| 0 - 25mm / 0 - 1" | 30.3 | 2.8 | 9 | 28 |
| 25 - 50mm / 1 - 2" | 55.3 | 2.8 | 10 | 38 |
| 50 - 75mm / 2 - 3" | 80.3 | 2.8 | 12 | 49 |
| 75 - 100mm / 3 - 4" | 105.3 | 2.8 | 14 | 60 |
| 100 - 125mm / 4 - 5" | 132.8 | 5.3 | 17 | 79 |
| 125 - 150mm / 5 - 6" | 158.2 | 5.7 | 19 | 94 |
| 150 - 175mm / 6 - 7" | 183.6 | 6.1 | 20 | 106 |
| 175 - 200mm / 7 - 8" | 208.8 | 6.3 | 19 | 118 |
| 200 - 225mm / 8 - 9" | 234.2 | 6.7 | 18 | 130 |
| 225 - 250mm / 9 - 10" | 258 | 5.5 | 18 | 143 |
| 250 - 275mm / 10 - 11" | 284 | 6.5 | 18 | 156 |
| 275 - 300mm / 11 - 12" | 309 | 6.5 | 18 | 169 |

Over 300mm / 12"

| Range | L | a | b | c |
|----------------------|-----|----|----|-----|
| 300 - 325mm / 12-13" | 353 | 18 | 28 | 187 |
| 325 - 350mm / 13-14" | 378 | 18 | 28 | 199 |
| 350 - 375mm / 14-15" | 403 | 18 | 28 | 212 |
| 375 - 400mm / 15-16" | 428 | 18 | 28 | 224 |
| 400 - 425mm / 16-17" | 453 | 18 | 28 | 236 |
| 425 - 450mm / 17-18" | 478 | 18 | 28 | 248 |
| 450 - 475mm / 18-19" | 503 | 18 | 28 | 261 |
| 475 - 500mm / 19-20" | 528 | 18 | 28 | 273 |

Metric Micrometer set

| Range | Order No. | Included in set | Mass (g) |
|-------------------------|------------|--|----------|
| 0 - 75mm (3 pc. set) | 103-927-10 | 103-137, 103-138, 103-139-10, 2 micrometer standards | 750 |
| 0 - 150mm (6 pc. set) | 103-913-50 | 103-137, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10, 5 micrometer standards | 2260 |
| 150 - 300mm (6 pc. set) | 103-915-10 | 103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10, 6 micrometer standards | 7695 |
| 0 - 300mm (12 pc. set) | 103-914-50 | All micrometers of 103-913-50 and 103-915-10 in one set, 11 micrometer standards | 9300 |