

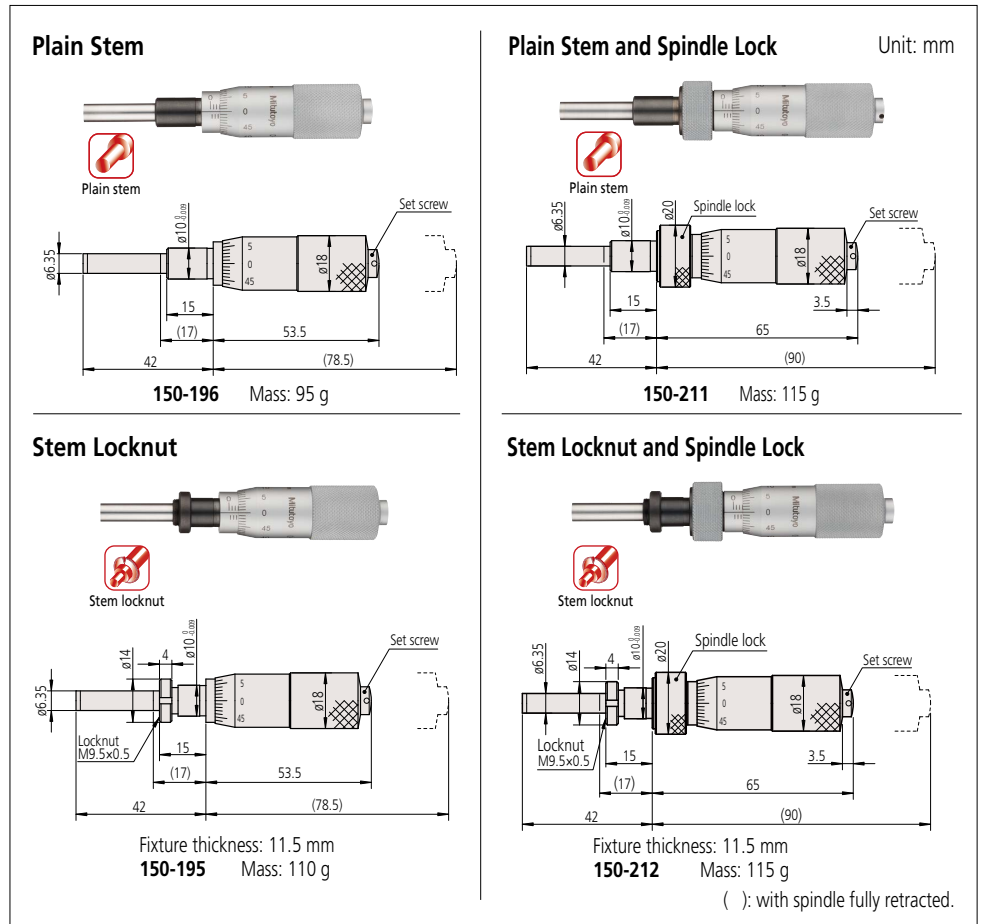
## Micrometer Heads SERIES 150 — Medium-sized Standard Type

### Technical Data

- Graduation: 0.01 mm, 0.001 mm (w/vernier), 0.001 in or 0.0001 in (w/vernier)
- Spindle pitch: 0.5 mm or 0.025 in
- Measuring face  
Material: Carbide  
(Only long spindle model is alloy tool steel)  
Hardness: 90 HRA or more  
(Only long spindle model is 60 HRC or more)
- Lapped
- Scale finishing:  
Satin-chrome plated

- Measuring range of 25 mm.

### DIMENSIONS



### SPECIFICATIONS

| Metric    |            |   |                |               |                               |                  |                               |          |
|-----------|------------|---|----------------|---------------|-------------------------------|------------------|-------------------------------|----------|
| Order No. | Range (mm) | Maximum permissible error $J_{MPE}$ ( $\mu\text{m}$ ) | Stem dia. (mm) | Stem          | Spindle end                   | Special features |                               |          |
| 150-192   | 0 - 25     | $\pm 2$   | 10             | Plain         | Flat (carbide tip)            | Standard         |                               |          |
| 150-191   |            |   |                | W/clamp nut   |                               |                  |                               |          |
| 150-209   |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-210   |            |   |                | W/clamp nut*1 |                               |                  |                               |          |
| 150-801   |            |   |                | Plain         |                               |                  | Spherical (SR4) (carbide tip) | Standard |
| 150-802   |            |   |                | W/clamp nut   |                               |                  |                               |          |
| 150-821   |            |   |                | Plain         | Flat (carbide tip)            | Reverse reading  |                               |          |
| 150-822   |            |   |                | W/clamp nut   |                               |                  |                               |          |
| 150-190   |            |   |                | Plain         |                               |                  | W/vernier (0.001 mm)          |          |
| 150-189   |            |   |                | W/clamp nut   |                               |                  |                               |          |
| 150-183*2 |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-184   |            |   |                | W/clamp nut*1 |                               |                  |                               |          |
| 150-196   |            |   |                | Plain         | W/o ratchet stop              |                  |                               |          |
| 150-195   |            |   |                | W/clamp nut   |                               |                  |                               |          |
| 150-211   |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-212   |            |   |                | W/clamp nut*1 | Flat                          | Long spindle     |                               |          |
| 150-219   |            |   |                | Plain         |                               |                  |                               |          |
| 150-220   |            |   |                | W/clamp nut   | Spherical (SR4) (carbide tip) | Standard         |                               |          |
| 150-803*2 |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-804*2 |            |   |                | W/clamp nut*1 | Flat (carbide tip)            | Reverse reading  |                               |          |
| 150-823*2 |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-824*2 |            |   |                | W/clamp nut*1 | Flat                          | Long spindle     |                               |          |
| 150-223*2 |            |   |                | Plain*1       |                               |                  |                               |          |
| 150-224*2 |            |   |                | W/clamp nut*1 |                               |                  |                               |          |

\*1 With spindle lock \*2 Made-to-order models

| Inch      |            |  |                |               |                    |                    |                               |          |
|-----------|------------|--|----------------|---------------|--------------------|--------------------|-------------------------------|----------|
| Order No. | Range (in) | Maximum permissible error $J_{MPE}$ (in) | Stem dia. (in) | Stem          | Spindle end        | Special features   |                               |          |
| 150-208   | 0 - 1      | $\pm 0.0001$                             | 0.375          | Plain         | Flat (carbide tip) | Standard           |                               |          |
| 150-207   |            |  |                | W/clamp nut   |                    |                    |                               |          |
| 150-213*2 |            |  |                | Plain*1       |                    |                    |                               |          |
| 150-214*2 |            |  |                | W/clamp nut*1 |                    |                    |                               |          |
| 150-811   |            |  |                | Plain         |                    |                    | Spherical (SR4) (carbide tip) | Standard |
| 150-812   |            |  |                | W/clamp nut   |                    |                    |                               |          |
| 150-831   |            |  |                | Plain         | Flat (carbide tip) | Reverse graduation |                               |          |
| 150-832   |            |  |                | W/clamp nut   |                    |                    |                               |          |
| 150-206   |            |  |                | Plain         |                    |                    | W/vernier (0.0001 in)         |          |
| 150-205*2 |            |  |                | W/clamp nut   |                    |                    |                               |          |
| 150-215*2 |            |  |                | Plain*1       |                    |                    |                               |          |
| 150-216*2 |            |  |                | W/clamp nut*1 |                    |                    |                               |          |
| 150-198   |            |  |                | Plain         | W/o ratchet stop   |                    |                               |          |
| 150-197   |            |  |                | W/clamp nut   |                    |                    |                               |          |
| 150-217*2 |            |  |                | Plain*1       |                    |                    |                               |          |
| 150-218*2 |            |  |                | W/clamp nut*1 | Flat               | Long spindle       |                               |          |
| 150-221*2 |            |  |                | Plain         |                    |                    |                               |          |
| 150-222*2 |            |  |                | W/clamp nut   |                    |                    |                               |          |

\*1 With spindle lock \*2 Made-to-order models