

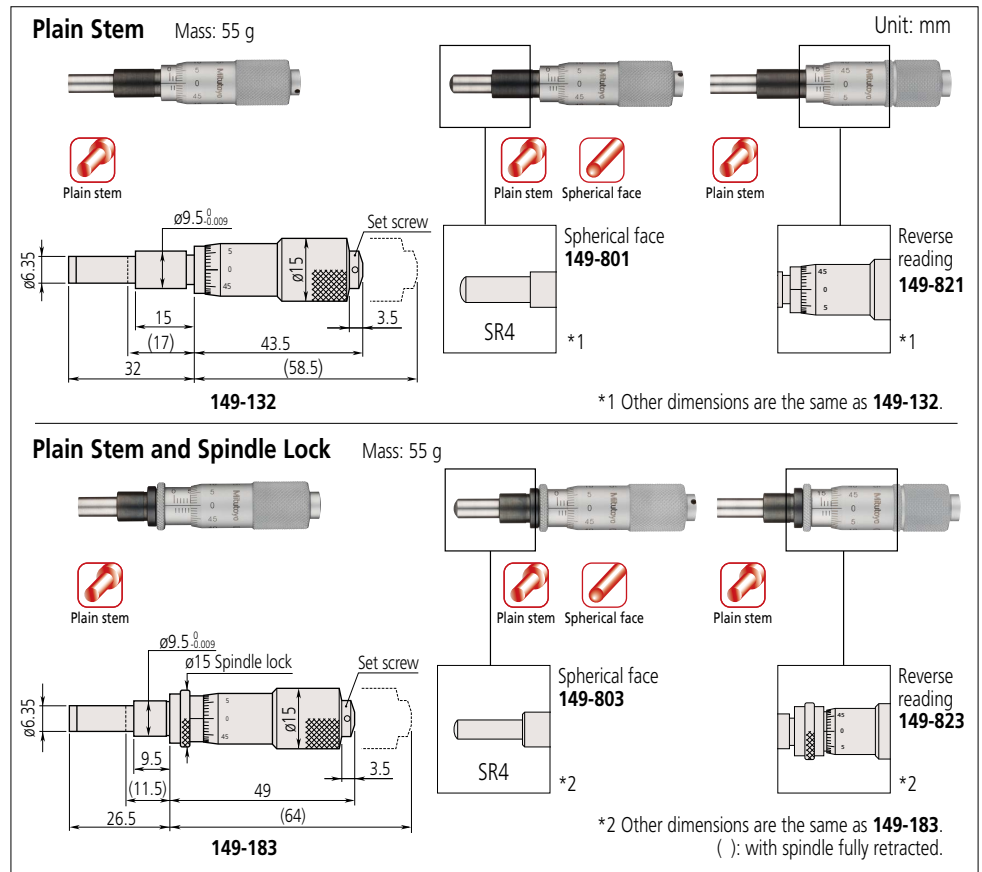
### Technical Data

- Graduation: 0.01 mm or 0.001 in
- Spindle pitch: 0.5 mm or 0.025 in
- Measuring face  
Material: Carbide  
Hardness: 90 HRA or more  
Lapped
- Scale finishing:  
Satin-chrome plated

## Micrometer Heads SERIES 149 — Small Standard Type with Carbide-Tipped Spindle

- Carbide-tipped spindle provides high abrasion resistance.

### DIMENSIONS



### SPECIFICATIONS

#### Metric

| Order No.                   | Range (mm) | Maximum permissible error $J_{MPE}$ ( $\mu\text{m}$ ) | Stem dia. (mm) | Stem                      | Spindle end                   | Graduation features |
|-----------------------------|------------|---|----------------|---------------------------|-------------------------------|---------------------|
| <b>149-132</b>              | 0 - 15     | $\pm 2$   | 9.5            | Plain                     | Flat (carbide tip)            | Standard            |
| <b>149-131</b>              |            |   |                | W/clamp nut               |                               |                     |
| <b>149-183</b>              |            |   |                | Plain* <sup>1</sup>       |                               |                     |
| <b>149-184</b>              |            |   |                | W/clamp nut* <sup>1</sup> |                               |                     |
| <b>149-801</b>              |            |   |                | Plain                     | Spherical (SR4) (carbide tip) |                     |
| <b>149-802</b>              |            |   |                | W/clamp nut               |                               |                     |
| <b>149-821</b>              |            |   |                | Plain                     | Flat (carbide tip)            | Reverse reading     |
| <b>149-822</b>              |            |   |                | W/clamp nut               |                               |                     |
| <b>149-803*<sup>2</sup></b> |            |   |                | Plain* <sup>1</sup>       | Spherical (SR4) (carbide tip) | Standard            |
| <b>149-804*<sup>2</sup></b> |            |   |                | W/clamp nut* <sup>1</sup> |                               |                     |
| <b>149-823*<sup>2</sup></b> |            |   |                | Plain* <sup>1</sup>       | Flat (carbide tip)            | Reverse reading     |
| <b>149-824*<sup>2</sup></b> |            |   |                | W/clamp nut* <sup>1</sup> |                               |                     |

\*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                   | Graduation features |
|-----------------------------|------------|--|----------------|---------------------------|-------------------------------|---------------------|
| <b>149-148</b>              | 0 - 0.5    | $\pm 0.0001$                             | 0.375          | Plain                     | Flat (carbide tip)            | Standard            |
| <b>149-147</b>              |            |  |                | W/clamp nut               |                               |                     |
| <b>149-185*<sup>3</sup></b> |            |  |                | Plain* <sup>1</sup>       |                               |                     |
| <b>149-182</b>              |            |  |                | W/clamp nut* <sup>1</sup> |                               |                     |
| <b>149-811</b>              |            |  |                | Plain                     | Spherical (SR4) (carbide tip) |                     |
| <b>149-812</b>              |            |  |                | W/clamp nut               |                               |                     |
| <b>149-831*<sup>2</sup></b> |            |  |                | Plain                     | Flat (carbide tip)            | Reverse reading     |
| <b>149-832*<sup>2</sup></b> |            |  |                | W/clamp nut               |                               |                     |
| <b>149-181*<sup>2</sup></b> |            |  |                | Plain* <sup>1</sup>       | Flat (carbide tip)            | Standard            |
|                             |            |  |                | W/clamp nut* <sup>1</sup> |                               |                     |

\*1 With spindle lock \*2 Made-to-order models \*3 W/ratchet (**149-181**) is available