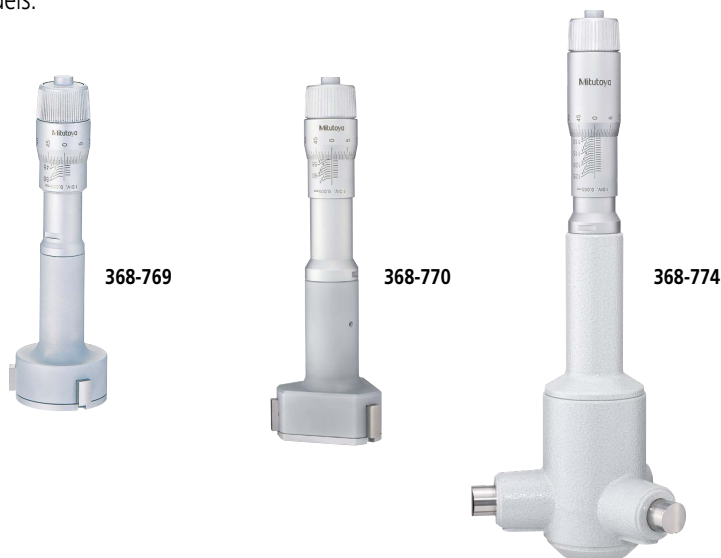


## Holtest (Type II) SERIES 368 — Three-point Bore Micrometers

- The Holtests (type II) have three contact points made of alloy steel for a more economically priced tool.
- Same accuracy as the titanium-coated Holtest models.
- Constant-force device allows stable measurement.
- Can measure deep holes using an extension rod (optional).



### SPECIFICATIONS

| Metric Individual |                          |                 |                                                        |                          | Inch Individual |                          |                 |                                                        |                          |         |  |
|-------------------|--------------------------|-----------------|--------------------------------------------------------|--------------------------|-----------------|--------------------------|-----------------|--------------------------------------------------------|--------------------------|---------|--|
| Code No.          | Range* <sup>2</sup> (mm) | Graduation (mm) | Maximum permissible error $J_{MPE}$ (μm)* <sup>1</sup> | Extension Rod (optional) | Code No.        | Range* <sup>2</sup> (in) | Graduation (in) | Maximum permissible error $J_{MPE}$ (in)* <sup>1</sup> | Extension Rod (optional) |         |  |
| 368-764           | 12 - 16                  | 0.005           | ±3<br>(maximum difference 3)                           | 952621<br>(150 mm)       | 368-864         | 0.5 - 0.65               | 0.0002          | ±0.00015<br>(maximum difference 0.00015)               | 952621<br>(150 mm)       |         |  |
| 368-765           | 16 - 20                  |                 |                                                        |                          | 368-865         | 0.65 - 0.8               |                 |                                                        |                          |         |  |
| 368-766           | 20 - 25                  |                 |                                                        |                          | 368-866         | 0.8 - 1                  |                 |                                                        |                          |         |  |
| 368-767           | 25 - 30                  |                 |                                                        |                          | 368-867         | 1 - 1.2                  |                 |                                                        | 952622<br>(150 mm)       |         |  |
| 368-768           | 30 - 40                  |                 |                                                        |                          | 368-868         | 1.2 - 1.6                |                 |                                                        |                          |         |  |
| 368-769           | 40 - 50                  |                 |                                                        |                          | 368-869         | 1.6 - 2                  |                 |                                                        |                          |         |  |
| 368-770           | 50 - 63                  |                 | ±4<br>(maximum difference 4)                           | 952623<br>(150 mm)       | 368-870         | 2 - 2.5                  |                 | ±0.0002<br>(maximum difference 0.0002)                 | 952623<br>(150 mm)       |         |  |
| 368-771           | 62 - 75                  |                 |                                                        |                          |                 | 368-871                  |                 |                                                        |                          | 2.5 - 3 |  |
| 368-772           | 75 - 88                  |                 |                                                        |                          |                 | 368-872                  |                 |                                                        |                          | 3 - 3.5 |  |
| 368-773           | 87 - 100                 |                 | ±5<br>(maximum difference 5)                           |                          | 368-873         | 3.5 - 4                  |                 | ±0.00025<br>(maximum difference 0.00025)               |                          |         |  |
| 368-774           | 100 - 125                |                 |                                                        |                          | 368-874         | 4 - 5                    |                 |                                                        |                          |         |  |
| 368-775           | 125 - 150                |                 | ±6<br>(maximum difference 6)                           |                          | 368-875         | 5 - 6                    |                 | ±0.0003<br>(maximum difference 0.0003)                 |                          |         |  |
| 368-776           | 150 - 175                |                 |                                                        |                          | 368-876         | 6 - 7                    |                 |                                                        |                          |         |  |
| 368-777           | 175 - 200                |                 |                                                        |                          | 368-877         | 7 - 8                    |                 |                                                        |                          |         |  |
| 368-778           | 200 - 225                |                 |                                                        |                          | 368-878         | 8 - 9                    |                 |                                                        |                          |         |  |
| 368-779           | 225 - 250                |                 |                                                        |                          | 368-879         | 9 - 10                   |                 |                                                        |                          |         |  |
| 368-780           | 250 - 275                |                 |                                                        |                          | 368-880         | 10 - 11                  |                 |                                                        |                          |         |  |
| 368-781           | 275 - 300                |                 |                                                        |                          |                 | 368-881                  |                 |                                                        |                          | 11 - 12 |  |

\*1 Additionally, the difference in permissible error allowable is limited to a value within this range, as given in parentheses, and is measured with the entire measuring surface in contact with the object measured.

\*2 The measurement range cannot be enlarged by measuring heads that are not standard-supplied (the accuracy is not guaranteed).

Note: Setting rings are optional.

### DIMENSIONS

Unit: mm

A technical drawing of a measuring tool, likely a depth gauge or similar. The tool consists of a long, cylindrical body with a handle on the left and a measuring head on the right. The handle has a knurled section. Two dimension lines are shown: L1, which spans the entire length of the tool from the left end to the right end of the measuring head; and L2, which spans from the left end to the start of the measuring head's body. The measuring head has a vertical scale and a horizontal measuring edge.

| Range                                      | L <sub>2</sub> | L <sub>1</sub> |
|--------------------------------------------|----------------|----------------|
| 12 - 16, 16 - 20                           | 82             | 126 - 130      |
| 20 - 25, 25 - 30                           | 94             | 137 - 142      |
| 30 - 40, 40 - 50                           | 102            | 145 - 155      |
| 50 - 63, 62 - 75, 75 - 88, 87 - 100        | 105            | 150 - 163      |
| 100 - 125, 125 - 150, 150 - 175, 175 - 200 | 161            | 227 - 252      |
| 200 - 225, 225 - 250, 250 - 275, 275 - 300 |                |                |

Note: External appearance differs depending on the measuring range.

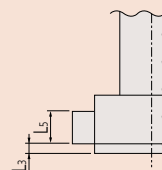


### Measurement example



### Reference dimensions when measuring a blind hole

| Range (mm) | L <sub>3</sub> (mm) | L <sub>5</sub> (mm) |
|------------|---------------------|---------------------|
| 12 - 20    | 2.6 or below        | 3.5                 |
| 20 - 30    | 3.4 or below        | 5.2                 |
| 30 - 50    |                     | 10.0                |
| 50 - 100   |                     | 14.0                |
| 100 - 300  | 19.6 or below       | 13.8                |



For details of Special-order Products, refer to page 13-16.

### Non-interchangeable Head Sets



| Metric   |             |                 |                                                                                                                                                                                                                            | Inch     |             |                 |                                                                                                                                                                                                                                     |
|----------|-------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code No. | Range* (mm) | Graduation (mm) | Content of Set                                                                                                                                                                                                             | Code No. | Range* (in) | Graduation (in) | Content of Set                                                                                                                                                                                                                      |
| 368-991  | 12 - 20     |                 | Micrometer head unit<br>12 - 16 mm 1 pc.<br>16 - 20 mm 1 pc.<br>Setting ring (ø16) 1 pc.<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc.                                                             | 368-995  | 0.5 - 0.8   |                 | Micrometer head unit<br>0.5 - 0.65 in 1 pc.<br>0.65 - 0.8 in 1 pc.<br>Setting ring (0.65 in DIA.) 1 pc.<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc.                                                       |
|          |             |                 | Micrometer head unit<br>20 - 25 mm 1 pc.<br>25 - 30 mm 1 pc.<br>30 - 40 mm 1 pc.<br>40 - 50 mm 1 pc.<br>Setting ring (ø25, ø40) 1 pc. each<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc.           |          |             |                 | Micrometer head unit<br>0.8 - 1 in 1 pc.<br>1 - 1.2 in 1 pc.<br>1.2 - 1.6 in 1 pc.<br>1.6 - 2 in 1 pc.<br>Setting ring 1 pc. each<br>(1 in DIA., 1.6 in DIA.)<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc. |
| 368-992  | 20 - 50     | 0.005           | Micrometer head unit<br>50 - 63 mm 1 pc.<br>62 - 75 mm 1 pc.<br>75 - 88 mm 1 pc.<br>87 - 100 mm 1 pc.<br>Setting ring (ø62, ø87) 1 pc. each<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc.          | 368-996  | 0.8 - 2     | 0.0002          | Micrometer head unit<br>2 - 2.5 in 1 pc.<br>2.5 - 3 in 1 pc.<br>3 - 3.5 in 1 pc.<br>3.5 - 4 in 1 pc.<br>Setting ring 1 pc. each<br>(2.5 in DIA., 3.5 in DIA.)<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc. |
|          |             |                 | Micrometer head unit<br>100 - 125 mm 1 pc.<br>125 - 150 mm 1 pc.<br>150 - 175 mm 1 pc.<br>175 - 200 mm 1 pc.<br>Setting ring (ø125, ø175) 1 pc. each<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc. |          |             |                 | Micrometer head unit<br>4 - 5 in 1 pc.<br>5 - 6 in 1 pc.<br>6 - 7 in 1 pc.<br>7 - 8 in 1 pc.<br>Setting ring 1 pc. each<br>(5 in DIA., 7 in DIA.)<br>Extension rod (150 mm) 1 pc.<br>Spanner 2 pcs.<br>Hex wrench 1 pc.             |
| 368-993  | 50 - 100    |                 |                                                                                                                                                                                                                            | 368-997  | 2 - 4       |                 |                                                                                                                                                                                                                                     |
| 368-994  | 100 - 200   |                 |                                                                                                                                                                                                                            | 368-998  | 4 - 8       |                 |                                                                                                                                                                                                                                     |

\* The measurement range cannot be enlarged by measuring heads that are not standard-supplied (the accuracy is not guaranteed).