

Starrett +/NS/ZE+

For more information on Precision Measuring Instruments, see page

IP65 Digital 3-Point Inside Micrometers for Harsh & Washdown Environments

- 0.0005 in/ 0.001 mm Resolution SPC Output
- Ratchet-stop thimble
- Curved contact point shape
- For SPC processors and accessories see page 2221

| D | | Maximum Measuring | | Doord | Item |
|--|-------------------------------|----------------------|-------------------------------------|----------|--------|
| Range Carbide Contact P | Accuracy Point Material | Depth | Data Output Type | Brand | No. |
| 0.25 in to 0.3125 in, 6 mm to 8 mm | +/-0.00015 in; +/-0.004 mm | 2.25 in | Cable, Wireless with Transmitter | Starrett | 53VE40 |
| 1 in to 11 in, 250 mm to 275 mm | +/-0.00035 in; +/-0.009 mm | 4.625 in | Cable, Wireless with Transmitter | Starrett | 53VE31 |
| 3.25 in to 4 in, 80 mm to 100 mm | +/-0.0002 in | 4 in | Cable, Wireless with Transmitter | Starrett | 53VE43 |
| 11 in to 12 in, 275 mm to 300 mm | +/-0.00035 in; +/-0.009 mm | 4.625 in | Cable, Wireless with Transmitter | Starrett | 53VE32 |
| 16 mm to 20 mm, 0.625 in to 0.75 in | +/-0.00015 in; +/-0.004 mm | 2.625 in | Cable, Wireless with Transmitter | Starrett | 53VE49 |
| 101 mm to 127 mm, 4 in to 5 in | +/-0.00025 in; +/-0.006 mm | 6 in | Cable | Insize | 54XH72 |
| 127 mm to 152 mm, 5 in to 6 in | +/-0.00025 in; +/-0.006 mm | 6 in | Cable | Insize | 54XH73 |
| Steel Contact Point Material | | | | | |
| 0.425 in to 0.5 in, 11 mm to 13 mm | +/-0.00015 in; +/-0.004 mm | 2.18 in | Cable | Insize | 55VM84 |





+///SIZE+ Mitutoyo Starrett

IP65 & IP67 Digital Outside Micrometers without SPC for Harsh & Washdown Environments

■ 0.00005 in./0.001 mm Resolution

Ratchet thimble except where noted

| Range | Accuracy | Brand | No. | | | |
|---|-------------|----------|----------|--|--|--|
| Carbide Anvil | Accuracy | Diana | 140. | | | |
| IP65 Rating | | | | | | |
| 0 in to 1 in, 0 to 25 mm | ±2 μm | Insize | 54XH93 | | | |
| Flat Anvil | | | | | | |
| IP65 Rating | | | | | | |
| 0 in to 1 in, 0 to 25 mm | ±0.00005 in | Mitutoyo | 2NXD5 | | | |
| 0 in to 1 in, 0 to 25 mm | ±0.00005 in | Mitutovo | 2NXD3 | | | |
| 0 in to 1 in, 0 to 25 mm | ±0.0001 in | Mitutoyo | 4CGG2 | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 1ARB6 | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 4LA70 | | | |
| 0 to 25 mm | ±1 μm | Mitutoyo | 16X239 | | | |
| 1 in to 2 in | ±0.00005 in | Mitutoyo | 2NXD6 | | | |
| 1 in to 2 in, 25.4 to 50.8 mm | ±0.00005 in | Mitutoyo | 6NPY6 | | | |
| 1 in to 2 in, 25.4 to 50.8 mm | ±0.00005 in | Mitutoyo | 4CGF8 * | | | |
| 1 in to 2 in, 25.4 to 50.8 mm | ±0.00005 in | Mitutoyo | 4LA71 | | | |
| 2 in to 3 in, 50.8 to 76.2 mm | ±0.00005 in | Mitutoyo | 6NPY7 | | | |
| 3 in to 4 in, 76.2 to 101.6 mm | ±0.0001 in | Mitutoyo | 4CGG1 | | | |
| IP67 Rating | | | | | | |
| 0 in to 1 in, 0 to 25 mm | ±0.00005 in | Starrett | 2ZTX2 * | | | |
| 0 in to 1 in, 0 to 25 mm | ±0.00005 in | Starrett | 2ZTX6 | | | |
| 1 in to 2 in | ±0.0001 in | Starrett | 53VD16 * | | | |
| 1 in to 2 in, 25 to 50 mm | ±0.0001 in | Starrett | 53VD19 | | | |
| Long Form Calibration Certificate Long Form Calibration | | | | | | |
| Certificate Traceable to NIST, II | | | | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 1ARD4 † | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 1ARB5 † | | | |
| Flat Carbide Tipped Anvil | | | | | | |
| IP65 Rating | 0.00005 | 8.871 | F40F00 | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 54GF36 † | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 4LA73 | | | |
| 1 in to 2 in, 25.4 to 50.8 mm | ±0.00005 in | Mitutoyo | 1ARD5 | | | |
| 2 in to 3 in, 50.8 to 76.2 mm | ±0.00005 in | Mitutoyo | 4CGF9 | | | |
| Long Form Calibration Certificate Long Form Calibration | | | | | | |
| Certificate Traceable to NIST, II | | | | | | |
| 0 in to 1 in, 0 to 25.4 mm | ±0.00005 in | Mitutoyo | 36J712 | | | |
| 1 in to 2 in, 25.4 to 50.8 mm | ±0.00005 in | Mitutoyo | 36J711 | | | |
| 2 in to 3 in, 50.8 to 76.2 mm | ±0.00005 in | Mitutoyo | 36J714 | | | |







Flat Carbide 1ARD5

Ratchet 462U26

Mitutovo

Starrett

WESTWARD







Outside Micrometers with Direct-Reading Vernier Scale

Ratchet thimble type

These carbide-tipped mechanical micrometers are the standard/classic micrometer design for most high-precision outside dimension measurements when higher resolution

| than a caliper | is required. | D-4-4i | | |
|-------------------------|---------------|----------|---------------------|----------|
| Donne | A | Rotating | Duand | Item |
| Range 0.0001 in Reso | Accuracy | Spindle | Brand | No. |
| 0.0001 III NGSU | +/-0.001 in | No | Mitutoyo | 5C688 * |
| | +/-0.0011iii | Yes | Westward | 4KU90 |
| | +/-0.00016 in | Yes | Insize | 462U15 |
| | +/-0.00016 in | Yes | Insize | 462U16 * |
| | +/-0.0001 in | No | Starrett | 2ZTZ7 |
| 0 in to 1 in | +/-0.0001 in | No | Starrett | 2ZTX8 |
| | +/-0.0001 in | No | Starrett | 3DZR6 |
| | +/-0.0001 in | No | Starrett | 30A474 |
| | +/-0.0001 in | No | Starrett | 3DZR5 |
| | +/-0.0001 in | Yes | Starrett | 53VC94 |
| | +/- 0.001 in | No | Mitutovo | 5C677 * |
| 0 in to 3 in | +/-0.00020 in | Yes | Insize | 462U26 |
| 0 in to 4 in | +/-0.00020 in | Yes | Insize | 462U28 |
| | +/-0.001 in | No | Mitutoyo | 5C689 * |
| | +/-0.0001 in | No | Starrett | 2ZTZ9 |
| 1 in to 2 in | +/-0.0001 in | No | Starrett | 30A476 |
| | +/-0.0001 in | No | Mitutovo | 4CGA4 |
| | +/-0.0001 in | Yes | Starrett | 53VC95 |
| | +/-0.001 in | No | Mitutovo | 5C683 * |
| 2 in to 3 in | +/-0.0001 in | No | Starrett | 2ZUA2 |
| | +/-0.0001 in | Yes | Starrett | 53VC96 |
| | +/-0.0015 in | No | Mitutoyo | 5C684 * |
| 3 in to 4 in | +/-0.0001 in | Yes | Tesa Brown & Sharpe | 499K43 * |
| 3 111 10 4 111 | +/-0.0001 in | Yes | Starrett | 53VC97 |
| | +/-0.00005 in | Yes | Starrett | 30A467 |
| 4 in to 5 in | +/-0.0015 in | No | Mitutovo | 5C685 * |
| 4 111 10 5 111 | +/-0.0001 in | Yes | Starrett | 53VC98 |
| 5 in to 6 in | +/-0.0015 in | No | Mitutoyo | 5C686 * |
| 5 111 10 6 111 | +/-0.0001 in | Yes | Starrett | 53VC99 |
| 6 in to 7 in | +/-0.0001 in | Yes | Starrett | 53VC91 |
| 7 in to 8 in | +/-0.0001 in | Yes | Starrett | 53VC92 |
| 8 in to 9 in | +/-0.0001 in | Yes | Starrett | 53VC93 |
| 9 in to 10 in | +/-0.0001 in | Yes | Starrett | 53VC88 |
| 11 in to 12 in | +/-0.0001 in | Yes | Starrett | 53VC90 |
| 0.001 in Resolu | | | | |
| | +/-0.001 in | No | Mitutoyo | 5C687 * |
| 0 in to 1 in | +/-0.001 in | Yes | Westward | 2YNA1 |
| 0 111 10 1 111 | +/-0.0001 in | No | Starrett | 2ZTZ6 |
| | +/-0.0001 in | No | Mitutoyo | 4CGC4 |
| 0 mm to 25 mm | | Yes | Starrett | 53VD01 |
| | +/-0.001 in | No | Mitutoyo | 5C681 * |
| 1 in to 2 in | +/-0.0001 in | No | Starrett | 2ZTZ8 |
| 1 111 10 2 111 | +/-0.0001 in | No | Mitutoyo | 4CGC6 |
| | +/-0.00005 in | No | Starrett | 6NAYO * |
| 2 in to 3 in | +/-0.001 in | No | Mitutoyo | 5C682 * |
| 2 111 10 3 111 | +/-0.0001 in | No | Starrett | 2ZUA1 |
| 3 in to 4 in | +/-0.00015 in | No | Mitutoyo | 4CGC7 |
| | +/-0.0001 in | No | Starrett | 2ZUA3 |
| 4 in to 5 in | +/-0.0001 in | No | Starrett | 2ZUA4 |
| 5 in to 6 in | +/-0.0001 in | No | Starrett | 2ZUA5 |
| 6 in to 7 in | +/-0.0002 in | No | Mitutoyo | 4CGC8 |
| 0.01 mm Resolu | | | | |
| 0 mm to 25 mm | | Yes | Starrett | 53VC85 |
| *Friction/Ratche | et Thimble | | | |

Mahr

Digital Outside Micrometer Sets Milluloyo Starrett +///SIZE+

■ For SPC processors and accessories see page 2221

*Friction Thimble † Rotating Thimble

These digital outside micrometer sets contain individual micrometers in measuring range increments of 1 inch or 25mm. They have the same construction, finish, graduation, and thimble type, so users get the same style and feel across a broad range of measurements.

| Number of Micrometers | Res. | Accuracy | Thimble Type | IP Rating | Data Output Type | Brand | Item No. |
|--------------------------|---------------------|-----------------------------|-----------------|-----------|------------------|----------|-------------|
| 0 in to 3 in | | | | | | | |
| 3 | 0.00005 in | +/-0.00005 in | Ratchet | IP65 | Cable | Mitutoyo | 4LA77 |
| 0 in to 4 in | | | | | | | |
| 4 | 0.00005 in | +/-0.00005 in, +/-0.0001 in | Ratchet | IP65 | Cable | Mitutoyo | 4CGG3 |
| 4 | 0.0001 in | +/-0.0001 in | Ratchet | Not Rated | No Output | Starrett | 53VD24 |
| | 0.00005 in/0.001 mm | +/-0.00012 in, +/-0.0008 in | Ratchet | IP65 | Cable, Wireless | Insize | 462T90 |
| _ | 0.00005 in/0.001 mm | ±0.002 mm | Ratchet | IP65 | Wireless | Mahr | 446F09 |
| 0 in to 6 in | | | | | | | |
| 6 | 0.00005 in | +/-0.0001 in | Friction | Not Rated | No Output | Starrett | 30A542 |
| 6 | 0.0001 in | +/-0.0001 in | Ratchet | Not Rated | No Output | Starrett | 53VD25 |
| _ | 0.00005 in/0.001 mm | +/-0.00012 in, +/-0.0008 in | Ratchet | IP65 | Cable, Wireless | Insize | 462T92 |



