

1-800-GRAINGER (472-4643)

For more information on Precision Measuring Instruments, see page 2325.

Starrett® **INSIZE**

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

- 0.0005 in/0.001 mm Resolution
- Ratchet-stop thimble
- Curved contact point shape
- SPC Output
- For SPC processors and accessories see page 2336

Range	Accuracy	Maximum Measuring Depth	Data Output Type	Brand	Item No.
Carbide Contact Point Material					
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 1.1 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



Mitutoyo Starrett WESTWARD

INSIZE

Mahr

TESA TECHNOLOGY

brown & sharpe

Outside Micrometers with Direct-Reading Vernier Scale

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.

Range	Accuracy	Rotating Spindle	Thimble Type	Brand	Item No.
0.0001 in Resolution					
0 in to 1 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	5C688
	+/-0.0001 in	Yes	Friction	Westward	4KU90
	+/-0.0001 in	No	Friction	Starrett	2ZT77
	+/-0.0001 in	No	Friction	Mitutoyo	4CGA3
	+/-0.0001 in	No	Friction	Starrett	3DR6
	+/-0.0001 in	No	Ratchet	Starrett	2ZTX8
0 in to 3 in	+/-0.00020 in	Yes	Ratchet	Insize	462U26
	+/-0.00020 in	Yes	Ratchet	Insize	462U28
1 in to 2 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	5C689
	+/-0.0001 in	No	Friction	Starrett	2ZT79
2 in to 3 in	+/-0.0001 in	Yes	Ratchet	Starrett	53VC95
	+/-0.0002 in	Yes	Friction/Ratchet	Mitutoyo	5C685
3 in to 4 in	+/-0.0002 in	No	Friction/Ratchet	Mitutoyo	5C684
	+/-0.0002 in	Yes	Ratchet	Mahr	446F06
4 in to 5 in	+/-0.0001 in	Yes	Fixed/Friction	Tesa Brown & Sharpe	499K43
	+/-0.0001 in	Yes	Ratchet	Starrett	53VC97
5 in to 6 in	+/-0.0005 in	Yes	Friction	Starrett	30A467
	+/-0.0015 in	No	Friction/Ratchet	Mitutoyo	5C685
6 in to 7 in	+/-0.0001 in	Yes	Ratchet	Starrett	53VC98
	+/-0.0015 in	No	Friction/Ratchet	Mitutoyo	5C686
0 in to 1 in	+/-0.0001 in	Yes	Ratchet	Starrett	53VC99
	+/-0.0001 in	Yes	Ratchet	Starrett	53VC91
0.001 in Resolution					
0 in to 1 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	5C687
	+/-0.001 in	Yes	Ratchet	Westward	2YNA1
0 in to 1 in	+/-0.0001 in	No	Ratchet	Starrett	2ZT76
	+/-0.0001 in	No	Ratchet	Mitutoyo	4CGC4
0 mm to 25 mm	+/-0.002 mm	Yes	Ratchet	Starrett	53VD01
1 in to 2 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	5C681
	+/-0.0001 in	No	Friction	Mitutoyo	4CGC6
2 in to 3 in	+/-0.0001 in	No	Ratchet	Starrett	2ZT78
	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	5C682
3 in to 4 in	+/-0.0001 in	No	Ratchet	Starrett	2ZUA1
	+/-0.00015 in	No	Ratchet	Mitutoyo	4CGC7
4 in to 5 in	+/-0.0001 in	No	Ratchet	Starrett	2ZUA3
	+/-0.0001 in	No	Ratchet	Starrett	2ZUA4
5 in to 6 in	+/-0.0001 in	No	Ratchet	Starrett	2ZUA5
	+/-0.0002 in	No	Ratchet	Mitutoyo	4CGC8

INSIZE 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	Item No.
Carbide Anvil 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	Mitutoyo	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	1AR86
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, IP65 Rating			
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	1AR85 †
Flat Carbide Tipped Anvil IP65 Rating			
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, IP65 Rating			
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

*Friction Thimble † Rotating Thimble



Flat Anvil 54XH93



Flat Anvil 6NPY6



Flat Carbide 1ARD5

Digital Outside Micrometer Sets Mitutoyo Starrett INSIZE Mahr

- For SPC processors and accessories see page 2336

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	+/-0.00010 in, +/-0.00015 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	+/-0.00010 in, +/-0.00015 in	Ratchet	IP65	Cable, Wireless	Insize	462T92



0 in to 6 in 30A542

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