

1-800-GRAINGER (472-4643)

For more information on Precision Measuring Instruments, see page 2210.


0 in to 6 in
462U32

WESTWARD Mitutoyo

Starrett INSIZE

Vernier Scale Outside Micrometer Sets

Vernier scale outside micrometer sets come with multiple mechanical micrometers of the same style across a span of measuring ranges. These micrometers have the same construction, finish, graduations, and thimble type, and increase in 1" or 25mm increments. These sets are commonly used in automotive service and machine shops, tool rooms, and in inspection departments.

Number of Micrometers	Micrometers Incl.	Res.	Accuracy	Thimble Type	Brand	Item No.
0 in to 3 in						
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0002 in	Friction/Ratchet	Westward	4KU86
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0002 in (6 in to 9 in), +/-0.00025 in (9 in to 12 in)	Ratchet	Mitutoyo	4CGD5
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Friction	Starrett	22UA6
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Friction/Ratchet	Mitutoyo	5C673
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	5UA52
3	1 in, 2 in, 3 in	0.001 in	+/-0.0001 in	Ratchet	Mitutoyo	4CGD1
0 in to 4 in						
4	1 in, 2 in, 3 in, 4 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	22UA7
4	1 in, 2 in, 3 in, 4 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	54GE37
4	1 in, 2 in, 3 in, 4 in	0.001 in	+/-0.0001 in	Ratchet	Westward	2YNC1
4	1 in, 2 in, 3 in, 4 in	0.001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	5C674
0 in to 6 in						
6	0 to 1 in, 1 to 2 in, 2 to 3 in, 3 to 4 in, 4 to 5 in, 5 to 6 in	0.0001 in	+/-0.00016 in (0 in to 2 in), +/-0.00020 in (2 in to 4 in), +/-0.00024 in (4 in to 6 in)	Ratchet	Insizer	462U32
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	30A568
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Friction/Ratchet	Mitutoyo	1MDW5
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0004 in	Friction/Ratchet	Westward	2YNC2
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	22UA8
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	54GF71
0 in to 12 in						
12	1 in, 2 in, 11 in, 12 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in, 10 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in), +/-0.0002 in (6 in to 9 in), +/-0.00025 in (9 in to 12 in)	Friction/Ratchet	Mitutoyo	4CGD4
12	1 in, 10 in, 11 in, 12 in, 2 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	30A570
12	1 in, 10 in, 11 in, 12 in, 2 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	5UA44
6 in to 12 in						
6	10 in, 11 in, 12 in, 7 in, 8 in, 9 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	30A569
6	10 in, 11 in, 12 in, 7 in, 8 in, 9 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	5UA45
6	10 to 11 in, 11 to 12 in, 6 to 7 in, 7 to 8 in, 8 to 9 in, 9 to 10 in	0.0001 in	+/-0.00028 in (6 in to 8 in), +/-0.00031 in (8 in to 10 in), +/-0.00035 in (10 in to 12 in)	Ratchet	Insizer	462U10
12 in to 24 in						
12	13 in, 14 in, 15 in, 16 in, 17 in, 18 in, 19 in, 20 in, 21 in, 22 in, 23 in, 24 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	5UA46


Digital
4CGG5

Mechanical
462V29

Mitutoyo Starrett INSIZE

Spherical Face Micrometers

For SPC processors and accessories see page 2221

Spherical face micrometers, also known as round or rounded face micrometers, have a standard outside micrometer body, thimble, and C-shaped jaw. Both contact faces are rounded, and they are commonly used to take measurements of rounded features.

Range	Res.	Accuracy	Thimble Type	IP Rating	Spindle	Spindle Diameter	Included Certification	SPC Output	Brand	Item No.
Digital										
IP65 Rated										
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	1ARD8
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Spherical	18 mm	—	Yes	Mitutoyo	1ARD9
0 in to 1 in, 0 mm to 25 mm	0.00005 in/0.001 mm	±0.0001 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	6NP22
0 in to 1 in, 0 mm to 25 mm	0.00005 in/0.001 mm	±0.0001 in	Ratchet	IP65	Spherical	18 mm	Certificate of Inspection	Yes	Mitutoyo	4CGG5
Mechanical										
0 in to 0.5 in	0.001 in	±0.0001 in	Ratchet	—	Flat	0.2 in	—	No	Starrett	30A448
0 in to 1 in	0.001 in	+/-0.0001 in	Plain	—	Flat	0.25 in	—	No	Starrett	22T24
0 in to 1 in	0.0001 in	±0.00016 in	Ratchet	—	Flat	0.256 in	—	No	Insizer	462V29
1 in to 2 in	0.0001 in	+/-0.00015 in	Ratchet	—	Flat	0.197 in	—	No	Insizer	462W41
1 in to 2 in	0.0001 in	±0.00016 in	Ratchet	—	Flat	0.256 in	—	No	Insizer	462V30
2 in to 3 in	0.0001 in	+/-0.00020 in	Ratchet	—	Flat	0.197 in	—	No	Insizer	462W42
2 in to 3 in	0.0001 in	±0.0002 in	Ratchet	—	Flat	0.256 in	—	No	Insizer	462V31
3 in to 4 in	0.0001 in	+/-0.00020 in	Ratchet	—	Flat	0.197 in	—	No	Insizer	462W43
IP65 Rated										
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	4CGE2
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Spherical	18 mm	Certificate of Inspection	Yes	Mitutoyo	4CGE3


Digital
462W17

Mechanical
462U43

INSIZE

Adjustable-Collar & Interchangeable-Anvil Outside Micrometers

- Ratchet thimble
- Digital Micrometers have cable, wireless w/transmitter data output
- Digital Micrometers have SPC output
- For SPC processors and accessories see page 2221

Interchangeable anvil outside micrometers have a standard micrometer C-shaped jaw and stock, but have anvils that can be changed to accommodate a range of applications.

Range	Res.	Accuracy	Item No.
Digital			
IP65 Rated			
0 in to 4 in, 0 to 100 mm	0.00005 in/0.001 mm	±0.0002 in	462W07
0 in to 6 in, 0 to 150 mm	0.00005 in/0.001 mm	+/-0.00024 in	462W08
12 in to 16 in, 300 to 400 mm	0.0001 in/0.001 mm	±0.00035 in	462W11
16 in to 20 in, 400 to 500 mm	0.0001 in/0.001 mm	+/-0.00043 in	462W12
20 in to 24 in, 500 to 600 mm	0.0001 in/0.001 mm	+/-0.00047 in	462W13
24 in to 28 in, 600 to 700 mm	0.0001 in/0.001 mm	+/-0.00051 in	462W14
28 in to 32 in, 700 to 800 mm	0.0001 in/0.001 mm	+/-0.00059 in	462W15
32 in to 36 in, 800 to 900 mm	0.0001 in/0.001 mm	+/-0.00063 in	462W16
36 in to 40 in, 900 to 1000 mm	0.0001 in/0.001 mm	+/-0.00067 in	462W17
150 to 300 mm, 6 in to 12 in	0.0001 in/0.001 mm	+/-0.00031 in	462W09
200 to 300 mm, 8 in to 12 in	0.0001 in/0.001 mm	+/-0.00031 in	462W10
Mechanical			
40 in to 48 in	0.0005 in	+/-0.00087 in	462U39
48 in to 56 in	0.0005 in	+/-0.00094 in	462U40
56 in to 64 in	0.0005 in	+/-0.00110 in	462U41
64 in to 72 in	0.0005 in	+/-0.00122 in	462U42
72 in to 80 in	0.0005 in	+/-0.00134 in	462U43

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