

1-800-GRAINGER (472-4643)

**Precision Measuring Information**

**IP Rating**

IP rating indicates the level of protection an instrument offers against water, coolants and fluids, dust, and the elements

**IP54-rated** tools withstand splashes of water and are safe from particles, debris, and dust.

**IP65-rated** tools withstand jets of water and provide protection against metalworking fluids, coolants, and dust.

**IP66-rated** tools are dust-tight and withstand water projected from powerful jets

**IP67-rated** tools are the best choice for wash-down environments or where tools are exposed to seawater, coolants, or cutting fluids.

**Resolution**—Refers to the smallest visible change in measurement.

**Long Form Calibration Certificate**—A long-form calibration certificate is issued with instruments that meet standards of accuracy and repeatability set by NIST (National Institute of Standards and Technology).

**SPC Output**—An instrument with SPC Output is capable of transmitting measurements via a cabled or wireless connector to a computer, mini-processor, or other compatible device.

**CALIPER TIP TYPES**

**Carbide-Tipped and Ceramic**—Carbide-tipped measuring faces are harder than standard steel. Carbide tips provide more reliable readings, but may chip easier than other materials. Ceramic-tipped jaw faces are wear-resistant, nonmagnetic, and nonconductive.

**Carbon Fiber and Plastic**—Carbon fiber is used in the construction of long-range calipers. It is lightweight and allows tools to be used across a broad range of measurements. Plastic is nonmagnetic, nonconductive, and typically used in lab applications.

**Stainless Steel and Steel**—Stainless steel is the most commonly used material in the construction of calipers. It is strong, durable, and rust- and corrosion- resistant. Hardened steel is harder and more wear-resistant than stainless steel.



**GENERAL**

**TESA**  
TECHNOLOGY

tesa brown & sharpe

**Mitutoyo**

**Starrett**

**WESTWARD**

**INSIZE**

**Mahr**

**Dial Calipers**

Easier to read than vernier calipers and are commonly used in light and heavy manufacturing, production and machine and wood-working shops.

Accuracy	Dial Graduation	Range per Revolution	Measurements	Dial Color	Jaw Actuation Type	Jaw Depth	Jaw Shape	Brand	Item No.
<b>Plastic Jaw Material</b>									
<b>0 in to 150 mm Range</b>									
+/-0.03 mm	0.1 mm	10 mm	4-Way	White	Thumb Wheel	1.5 in	Standard Blade Nibs For Inside/Outside Measurement	General	3YWH2
<b>0 in to 6 in Range</b>									
+/-0.001 in	0.001 in	0.1 in	4-Way	Black	Thumb Wheel	1.1875 in	Standard Blade Nibs For Inside/Outside Measurement	General	54GX50
<b>Stainless Steel Jaw Material</b>									
<b>0 in to 6 in Range</b>									
+/-0.0008 in	0.001 in	0.1 in	4-Way	White	Slide	1.5625 in	Standard Blade Nibs For Inside/Outside Measurement	Tesa Brown & Sharpe	49U606
	0.001 in	0.1 in	4-Way	Black	Slide	1.5625 in		Tesa Brown & Sharpe	49U608
	0.001 in	0.1 in	4-Way	Purple	Thumb Wheel	40 mm		Mitutoyo	4CGJ2
	0.001 in	0.1 in	4-Way	Green	Thumb Wheel	40 mm		Mitutoyo	4CGJ3
	0.001 in	0.1 in	4-Way	Orange	Thumb Wheel	40 mm		Mitutoyo	4CGJ5
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	40 mm		Mitutoyo	4LA83
	0.001 in	0.1 in	4-Way	Blue	Thumb Wheel	40 mm		Mitutoyo	1ZRR7
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.5 in		Starrett	2ZUE3
	0.001 in	0.1 in	4-Way	Black	Thumb Wheel	1.5 in		Starrett	2ZUF2
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.625 in		Westward	4KU74
<b>0 in to 8 in Range</b>									
+/-0.001 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.96875 in	Standard Blade Nibs For Inside/Outside Measurement	Westward	4KU75
+/-0.002 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	50 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	5RCG4
<b>0 in to 12 in Range</b>									
+/-0.001 in	0.001 in	0.1 in	Inside, Outside, Step	White	Thumb Wheel	2.5 in	Standard Blade Nibs For Inside/Outside Measurement	Starrett	3DR2
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	2.4375 in	Standard Blade Nibs For Inside/Outside Measurement	Westward	4KU73
	+/-0.002 in	0.001 in	4-Way	White	Thumb Wheel	64 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	1ZRR9
<b>0 in to 24 in Range</b>									
+/-0.001 in	0.001 in	0.1 in	Inside, Outside	White	Thumb Wheel	3.375 in	Standard Blade Nibs For Inside/Outside Measurement	Westward	6XU79
<b>0 in to 12 in Range, Long Form Calibration Certificate: Yes</b>									
+/-0.002 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	64 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	4LA85
<b>0 to 150 mm Range</b>									
+/-0.03 mm	0.01 mm	0.2 mm	4-Way	White	Thumb Wheel	0.375 in	Standard Blade Nibs For Inside/Outside Measurement	Insize	408P47
	0.01 mm	1 mm	4-Way	White	Thumb Wheel	1.5625 in		Mahr	5RHK3
	0.02 mm	2 mm	4-Way	Yellow	Thumb Wheel	1.5 in		Starrett	2ZUE9
<b>0 to 300 mm Range</b>									
+/-0.04 mm	0.02 mm	2 mm	4-Way	Yellow	Thumb Wheel	64 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	16X243

**WESTWARD** **INSIZE**  
**Mitutoyo** **Starrett**

**GENERAL**

**Vernier & Compact Slide Calipers**

**Vernier calipers** take inside and outside measurements. Operators read the main and vernier scales and add the values to determine the reading. **Compact slide calipers** do not have a higher-precision second scale. They are small enough to fit in shop coat pockets. These calipers are commonly graduated with fractions of an inch and often used by woodworkers and for maintenance applications.

**Vernier Caliper 408P35**



**Compact Slide 5UAU5**



Range	Graduations	Accuracy	Jaw Depth	Brand	Item No.
<b>Vernier Calipers</b>					
<b>Knife-Edge Jaw, Slide Actuation</b>					
0 in to 6 in, 0 mm to 150 mm	0.001 in		1 3/4 in	Westward	4KU77
0 in to 12 in, 0 mm to 300 mm	0.001 in	+/-0.001 in, +/-0.03 mm	2.18 in	Westward	4KU76
<b>Nib-Style Jaw, Fine Adjust Carriage Actuation</b>					
0 in to 24 in, 0 mm to 600 mm	0.001 in, 0.02 mm	+/-0.002 in	3 15/16 in	Insize	408P39
0 in to 60 in	1/512 in	+/- 0.004 in	7 in	Mitutoyo	54GF65
<b>Standard Jaw, Slide Actuation</b>					
0 in to 8 in, 0 mm to 203.2 mm	0.02 mm	+/-0.001 in (0-4 in), +/-0.0015 in (4+ in)	1 1/2 in	Starrett	2ZUF5
0 in to 12 in, 0 mm to 300 mm	0.02 mm		1 1/2 in	Starrett	2ZUF3
<b>Standard Jaw, Thumb Wheel Actuation</b>					
0 in to 5 in, 0 mm to 127 mm	0.1 mm	+/-0.001 in	2 3/16 in	General	54GX52
0 in to 6 in	0.05 mm	+/- 0.0015 in	1 3/16 in	Mitutoyo	4CGN6
0 in to 6 in, 0 mm to 150 mm	0.001 in, 0.02 mm	+/-0.0012 in	1 3/16 in	Insize	408P35
0 in to 8 in, 0 mm to 203.2 mm	0.05 mm	+/-0.03 mm	1 3/32 in	Mitutoyo	4CGN7
<b>Standard Jaw, Thumb Clamp Actuation</b>					
0 in to 6 in, 0 mm to 150 mm	0.02 mm		1 3/16 in	Mitutoyo	4CGN8
0 in to 8 in, 0 mm to 203.2 mm	0.02 mm	+/-0.03 mm	1 3/32 in	Mitutoyo	4CGN9
<b>Compact Slide Calipers</b>					
<b>Nib-Style Jaw, Slide Actuation</b>					
0 in to 4 in, 0 mm to 101.6 mm	1/64 in	+/-0.001 in, +/-0.03 mm	3/4 in	General	3YWP8
0 in to 4 3/4 in	1/32 in, 1/64 in	+/-0.003 in	1 3/8 in	Starrett	5UAU5

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