



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

INSIZE Starrett®
Layout & Scribing
Compasses & Dividers

- Spring joint

Also known as compasses, these layout and scribing dividers have two straight, adjustable legs with solid scriber endpoints.

Maximum Measurement	Brand	Stop Item No.	Nut Type Quick-Spring Item No.	Solid Item No.
Flat Leg				
5.91 in	Insize	409F27	—	—
6 in, 150 mm	Starrett	—	2ZUZ9	2ZUZ8
8 in, 200 mm	Starrett	—	2ZVA2	2ZVA1
10.24 in	Insize	409F29	—	—
12 in, 300 mm	Starrett	—	2ZVA4	2ZVA3
12.6 in	Insize	409F30	—	—
Round Leg				
6 in, 150 mm	Starrett	—	—	2ZVA7



Flat Leg
409F27

INSIZE Starrett® WESTWARD®
Outside Spring & Firm Joint Calipers

- Steel construction

Adjusted until their legs make contact with an external diameter, groove, or other feature and lock into place. Then the distance between the legs is measured with a ruler or high-precision gauge.

Spring
GNAYS



Maximum Measurement	Range	Nut Type	Leg Style	Brand	Item No.
Spring Joint					
5.51 in	0 in to 5.51 in	Stop	Flat	Insize	409F35
6 in, 150 mm	0 in to 6 in/0 mm to 150 mm	Solid	Round	Starrett	2ZVA6
8 in, 200 mm	0 in to 8 in/0 mm to 200 mm	Solid	Flat	Starrett	6NAY8
8.27 in	0 in to 8.27 in	Stop	Flat	Insize	409F36
12 in, 300 mm	0 in to 12 in/0 mm to 300 mm	Quick-Spring	Flat	Starrett	6NAZ9
12.6 in	0 in to 12.6 in	Stop	Flat	Insize	409F38
Firm Joint					
12 in, 300 mm	0.037 to 12 in/1 to 300 mm	Solid	Flat	Westward	40L725
457 mm, 18 in	0.037 in to 24 in, 1 mm to 608 mm	Solid	Flat	Westward	40L724

Fractional-Display Digital Calipers

- LCD Display
- For SPC processors and accessories, see page 2336

Fractional-display digital calipers have a linear encoder for performing measurements and an LCD that displays measurements in 1/64" increments with inch and metric resolution.



Fractional Display
408N32



Stainless Steel
408N45



Range	Res.	Accuracy	Measurements	Jaw Depth	Brand	Item No.
Fractional-Display Digital Calipers without SPC Output						
Carbon Fiber Caliper Material						
0 in to 3 in, 0 to 76 mm	0.0005 in/0.01 mm/1/64 in	±0.005 in, ±0.10 mm	Outside, Inside, Step	1 3/8 in	General	6TFF9
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/128 in	±0.0012 in	4-Way	1 3/8 in	Insize	408N32
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/64 in	±0.001 in	4-Way	1 3/8 in	Johnson	21XK35
0 in to 8 in, 0 to 200 mm	0.0005 in/0.01 mm/1/128 in	±0.0012 in	4-Way	1 3/8 in	Insize	408N33
0 in to 12 in, 0 to 300 mm	0.0005 in/0.01 mm/1/128 in	±0.0012 in	4-Way	2 3/8 in	Insize	408N34
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/64 in	±0.03 mm, ±0.0015 in	4-Way	1 3/8 in	Westward	29AD36
Splash-Resistant IP54 Fractional-Display Digital Calipers with SPC Output						
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm	±0.001 in, ±0.02 mm	4-Way	1 1/2 in	General	54GX54
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/64 in	±0.001 in, ±0.02 mm	4-Way	1 3/8 in	Westward	2YNJ9
Splash-Resistant IP54 Fractional-Display Digital Calipers without SPC Output						
Plastic Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm	±0.008 in, ±0.16 mm	4-Way	1 1/2 in	Westward	2YNC6
Carbon Fiber Caliper Material						
0 in to 6 in, 0 to 153 mm	0.0005 in/0.01 mm/1/64 in	±0.008 in, ±0.20 mm	4-Way	1 3/8 in	General	54GX49
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/128 in	±0.001 in	4-Way	1 3/8 in	Baileigh Industrial	36HZ56

Digital Calipers without SPC Output for General Use

- 0.0005 in / 0.01 mm resolution
- Stainless Steel caliper material except where noted

Calipers are easier to read and offer higher precision than dial or vernier calipers.



Range	Accuracy	Measurements	Depth Rod Shape	Included Certification**	Jaw Depth	Jaw Shape	Jaw Actuation Type	Brand	Item No.
Plastic Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.004 in	4-Way	Rectangular	—	1 3/8 in	Standard	Slide	Insize	408N72 *
Carbide-Tipped Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.001 in	4-Way	Rectangular	A	2 3/8 in	Standard	Thumb Wheel	Mitutoyo	4CGK3
0 in to 12 in, 0 to 300 mm	±0.0015 in	4-Way	Rectangular	A	2 3/8 in	Standard	Thumb Wheel	Mitutoyo	5JK61
Stainless Steel Jaw Material									
0 in to 3 in, 0 to 75 mm	±0.0008 in	4-Way	Rectangular	—	1 1/8 in	Standard	Slide	Insize	408N45
0 in to 4 in, 0 to 100 mm	±0.001 in	4-Way	Round	A	1 3/8 in	Standard	Thumb Wheel	Mitutoyo	1ARG3
0 in to 4 in, 0 to 100 mm	±0.0008 in	4-Way	Rectangular	—	1 1/8 in	Standard	Slide	Insize	408N44
0 in to 6 in, 0 to 150 mm	±0.0012 in	4-Way	Rectangular	B	1 3/8 in	Standard	Thumb Wheel	Insize	408N46
0 in to 6 in, 0 to 150 mm	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	1 1/2 in	Standard	Thumb Wheel	Westward	1AAU4
0 in to 8 in, 0 to 200 mm	±0.005 in, ±0.20 mm	4-Way	Rectangular	A	1 3/8 in	Standard	Slide	Mitutoyo	4CGL9
0 in to 8 in, 0 to 200 mm	±0.0012 in	4-Way	Rectangular	B	1 3/8 in	Standard	Thumb Wheel	Insize	408N47
0 in to 12 in, 0 to 300 mm	±0.0012 in	4-Way	Rectangular	B	2 3/8 in	Standard	Thumb Wheel	Insize	408N48
0 in to 12 in, 0 to 300 mm	±0.0015 in	4-Way	Rectangular	A	2 3/8 in	Standard	Thumb Wheel	Mitutoyo	36J722
0 in to 18 in, 0 to 450 mm	±0.002 in	Outside, Inside, Step	—	—	3 1/8 in	Standard	Fine Adjust Carriage	Insize	408N70
0 in to 24 in, 0 to 600 mm	±0.002 in	Outside, Inside, Step	—	—	3 1/8 in	Standard	Fine Adjust Carriage	Insize	408N71
0 in to 24 in, 0 to 600 mm	±0.002 in, ±0.05 mm	Outside, Inside	—	—	4 in	Nib-Style	Thumb Wheel	Starrett	2ZUG3
0 in to 40 in, 0 to 1,000 mm	±0.0031 in	Outside, Inside, Step	—	—	5 7/8 in	Nib-Style	Fine Adjust Carriage	Insize	408N68
0 in to 40 in, 0 to 1,000 mm	±0.003 in, ±0.07 mm	Outside, Inside	—	—	6 in	Nib-Style	Thumb Wheel	Starrett	2ZUG4
Steel Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	1 3/8 in	Standard	Thumb Wheel	Westward	2ZA59
0 in to 12 in, 0 to 300 mm	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	2 3/8 in	Standard	Thumb Wheel	Westward	2ZA61
Long Form Calibration Certificate: Yes, Stainless Steel Jaw Material									
0 in to 4 in, 0 to 100 mm	±0.001 in	4-Way	Round	C	1 3/8 in	Standard	Thumb Wheel	Mitutoyo	1ARG4
0 in to 6 in, 0 to 150 mm	±0.001 in	4-Way	Rectangular	C	2 3/8 in	Standard	Thumb Wheel	Mitutoyo	5JK63
0 in to 8 in, 0 to 200 mm	±0.001 in	4-Way	Rectangular	C	1 3/8 in	Standard	Thumb Wheel	Mitutoyo	1ZRR4
0 in to 12 in, 0 to 300 mm	±0.0015 in	4-Way	Rectangular	C	2 3/8 in	Standard	Thumb Wheel	Mitutoyo	41T263

*408N72 is Plastic Caliper Material **A=Certificate of Inspection, B= Certificate of Inspection with NIST Traceability, C=Long Form Calibration Certificate Traceable to NIST