

1-800-GRAINGER (472-4643)

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



## Pin Gauge Set & Libraries

- ZZ Tolerance class
- 0.001 in/0.02 mm
- Diameter increment

Go (Plus) pin gauge sets contain 240 pin gauges in a sturdy case, each with a marked slot in an insert. Gauges are used to confirm that a hole's diameter meets the minimum spec size. Each pin is a 2"-long rod of tool steel with a black-oxide coating that shows signs of wear so users know when the gauge may need to be replaced. These gauges offer mild resistance and wear recognition, with a surface finish of 10 micro inches or better.

Diameter Range	No. of Gauges	Brand	Gauge Type No-Go (Minus) Item No.	Go (Plus) Item No.
<b>Uncoated Sets</b>				
<b>Inch</b>				
0.0110 in to 0.0600 in	50	Vermont Gauge	39UF09	—
0.0110 in to 0.0600 in	50	Starrett	4CEU3	—
0.0610 in to 0.2500 in	190	Vermont Gauge	39UF10	—
0.0610 in to 0.2500 in	190	Starrett	4CEU5	—
0.2510 in to 0.5000 in	250	Vermont Gauge	39UF11	—
0.2510 in to 0.5000 in	250	Starrett	4CEU7	—
<b>Black Oxide Sets</b>				
<b>Inch</b>				
0.0110 in to 0.0600 in	50	Vermont Gauge	5VUD8	5VUD0
0.0110 in to 0.0600 in	50	Starrett	—	4CEU2
0.0110 in to 0.2500 in	240	Vermont Gauge	5VUD9	5VUD1
0.0610 in to 0.2500 in	190	Vermont Gauge	5VUE0	5VUD2
0.0610 in to 0.2500 in	190	Starrett	—	4CEU4
0.2510 in to 0.5000 in	250	Vermont Gauge	5VUE1	5VUD3
0.2510 in to 0.5000 in	250	Starrett	—	4CEU6
0.5010 in to 0.6250 in	125	Vermont Gauge	5VUE2	5VUD4
0.6260 in to 0.7500 in	125	Vermont Gauge	5VUE3	5VUD5
0.7510 in to 0.8320 in	82	Vermont Gauge	5VUE4	5VUD6
0.8330 in to 0.9160 in	84	Vermont Gauge	5MAU0	5MAT5
0.9170 in to 1.0000 in	84	Vermont Gauge	5MAU1	5MAT6
<b>Metric</b>				
1.30 to 4.98 mm	185	Vermont Gauge	—	5VUE6
1.31 to 4.99 mm	185	Vermont Gauge	5VUF5	—
5.00 to 9.98 mm	250	Vermont Gauge	5VUF0	5VUE7
<b>Black Oxide Libraries</b>				
<b>Inch</b>				
0.0110 in to 0.7500 in	740	Vermont Gauge	5MAU2	5MAT7
0.0110 in to 1.000 in	990	Vermont Gauge	5MAU3	5MAT8
0.0610 in to 0.7500 in	690	Vermont Gauge	5MAU4	5MAT9



## Radius Gauge Sets

These radius gauge sets contain various-sized loose leaves or multiple leaves that are mounted to one or more hubs on a handle. They are used to quickly check or inspect the size of the radius or fillet, confirming a known size or determining an unknown one. They are also used as a stencil on a workpiece in combination with a scribe and layout die to mark a radius that needs to be cut. These gauges are commonly used in woodworking and light and heavy manufacturing applications.



**Fixed Leaves with Handle**  
463N63



**Loose Leaves**  
30A773

No. of Leaves	Range	Accuracy	Config.	Brand	Item No.
<b>Fixed Leaves With Handle</b>					
15	1/2 in to 1/4 in	±0.0012 in	15 Concave & 15 Convex Radii	Insize	463N63
16	1/2 in to 1/64 in by 64ths	±0.002 in	Convex & Concave Radii Per Each Leaf	Starrett	30A741
32	1/64 in to 1/2 in by 64ths	±0.002 in	Concave & Convex Radii	Mitutoyo	6NRD1
34	1 mm to 7mm	±0.002 in	Concave & Convex Radii	Mitutoyo	16X229
<b>Loose Leaves</b>					
8	9/16 in to 1 in by 16ths	±0.0025 in	3 Convex & 2 Concave Radii	Insize	463N69
22	0.5 mm to 7 mm by 0.5 mm, 8 mm to 15 mm by 1 mm	±0.002 in	5 Convex & Concave Radii	Starrett	30A773
25	1/64 in to 1/64 in by 64ths, 1/32 in to 1/2 in by 32nds	±0.002 in	5 Convex & Concave Radii	Starrett	22VD3
25	1/64 in to 1/2 in	±0.002 in	3 Convex & 2 Concave Radii	Insize	463N66
26	0.01 in to 0.03 in by 0.005 in, 0.04 in to 0.1 in by 0.01 in, 0.12 in to 0.3 in by 0.02 in, 0.35 in to 0.5 in by 0.05 in	±0.0016 in/0.04 mm	5 Convex & Concave Radii	Mitutoyo	12RR2

## Starrett Shaft Alignment Tools

Shaft alignment tools check alignment of motor bearings and shafts without having to dismantle the engine or check alignment in hard-to-reach areas. Sets typically pair a roller-chain clamp with an extension clamp and posts, or include one or two clamps with accessories and dial indicators in a hard case.

4CEV9



Includes	Dial Gauge Range	Dial Reading	Graduations	Item No.
(2) 81 141J/657Y Indicator, (2) Chain Clamp, (2) Extension Plate, (2) PT18724 Snug	0.25 in	0-50-0	0.2 in	4CEW1
(2) 196B5 Indicator, (2) Chain Clamp, (2) Extension Plate, (2) PT18724 Snug	0.2 in	0-50-0	0.2 in	4CEV9
(1) Chain Clamp, (1) Extension Plate, (1) Posts (5 in, 7 1/2 in, 9 in)	—	—	—	4CEW3
(2) Chain Clamp, (2) Extension Plate	—	—	—	4CEW2



**Single End with Swivel Head**  
No 39EP70



**Double End**  
22VG8

## Pin Vises



These pin vises securely hold wires, scriber points, taps, pin gauges, drills, and other small items. These tools hold delicate and small items in place within a twist clamp. Insert the end of a workpiece into the pin vise and clamp it in place.

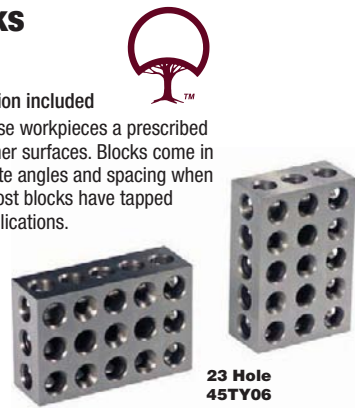
Range - Inch	Range (mm)	Brand	Item No.
<b>Single End with Swivel Head</b>			
<b>Knurled Grip Style, Round Grip Shape</b>			
0 in to 0.125 in	0 mm to 3.2 mm	General	39EP70
<b>Single End Set of 4</b>			
<b>Knurled Grip Style, Round Grip Shape</b>			
0 in to 0.187 in	0 mm to 4.8 mm	Moody Tool	6LE70
<b>PVC Coated Grip Style, Octagon Grip Shape</b>			
0.03 in to 0.187 in	0.80 mm to 4.8 mm	Starrett	22VH4
<b>Single End</b>			
<b>Knurled Grip Style, Round Grip Shape</b>			
0 in to 0.04 in	0 mm to 1 mm	Starrett	22VG3
0 in to 0.055 in	0 mm to 1.4 mm	General	3KMK7
0 in to 0.187 in	0 mm to 4.8 mm	Starrett	22VG7
0.01 in to 0.055 in	0.25 mm to 1.4 mm	Starrett	22VH5
0.01 in to 0.2 in	0.25 mm to 5.1 mm	Starrett	22VH9
0.025 in to 0.075 in	0.64 mm to 1.9 mm	Starrett	22VH6
0.03 in to 0.062 in	0.80 mm to 1.6 mm	Starrett	22VH4
0.045 in to 0.135 in	1.20 mm to 3.4 mm	Starrett	22VH7
0.05 in to 0.125 in	1.30 mm to 3.2 mm	Starrett	22VH5
0.11 in to 0.2 in	2.80 mm to 5.1 mm	Starrett	22VG8
0.115 in to 0.187 in	2.90 mm to 4.8 mm	Starrett	22VG6
<b>PVC Coated Grip Style, Octagon Grip Shape</b>			
0 in to 0.04 in	0 mm to 1 mm	Starrett	22VG9
0.03 in to 0.062 in	0.80 mm to 1.6 mm	Starrett	22VH1
0.05 in to 0.125 in	1.30 mm to 3.2 mm	Starrett	22VH2
0.115 in to 0.187 in	2.90 mm to 4.8 mm	Starrett	22VH3
<b>Double End</b>			
<b>Knurled Grip Style, Round Grip Shape</b>			
0 in to 0.125 in	0 mm to 3.2 mm	Starrett	22VG8

## 1-2-3 Setup Blocks

- Matched pair
- 0.0001" per 1" squareness
- Long- and short-form certification included

1-2-3 setup blocks are used to raise workpieces a prescribed distance off a machine table or other surfaces. Blocks come in a wooden case and ensure accurate angles and spacing when inspecting or working on items. Most blocks have tapped holes for clamping and bolting applications.

No. of Holes	Hole Style	Item No.
<b>1 in x 2 in x 3 in</b>		
1	3/16"-18 Tapped	45TY05
11	1/2" Through	45TY04
23	3/8"-16 Tapped	45TY06
<b>2 in x 3 in x 4 in</b>		
23	3/8"-16 Tapped	45TY08
<b>2 in x 4 in x 6 in</b>		
23	3/8"-16 Tapped	45TY09



**23 Hole**  
45TY06

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