

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



Starrett®

PROTO®

Mitutoyo

◀INSIZE▶

WESTWARD®

Feeler Gauges and Sets

- Individual feeler gauges have a 1/2" blade width

Steel feeler gauge sets measure gap widths by inserting the gauge into a gap. They can also be used as high-precision, durable shims. They are commonly used by engineers, machinists, and in light and heavy production, automotive, and woodworking applications.

Long Blade
3R019Set
463T14

Thickness	Blade Length	Tolerance	Markings	Brand	Item No.	Pkg. Qty.	Number of Feeler Blades	Thickness Range	Blade Length	Blade Material	Blade Width	Tolerance	Markings	Brand	Item No.
Long Blade															
Stainless Steel Blade Material															
0.0010 in	12 in	+/-10%	Inch	Precision Brand	42DJ93	12	11	0.006 in to 0.02 in	4 3/8 in	Steel	1/2 in	—	Inch with Metric Equivalent	Proto	3R011
Steel Blade Material															
0.0010 in	12 in	—	Inch	Starrett	5UAC8	1	16	0.009 in to 0.027 in	3 in	Steel	1/2 in	—	Inch with Metric Equivalent	Proto	5C588
0.0010 in	12 in	+/-0.00012 in	Inch	Precision Brand	5XB92	12	Feeler Gauge Set Bent Blade Style								
0.0020 in	12 in	—	Inch	Proto	3R019	1	Feeler Gauge Set Short Blade Style								
0.0020 in	12 in	+/-0.00016 in	Inch	Precision Brand	5XE12	12	9	0.0015 in to 0.015 in	3 1/2 in	Steel	1/2 in	+/-0.00025 in	Inch	Starrett	5UAU3
0.0030 in	12 in	+/-0.00020 in	Inch	Precision Brand	5XE16	12	13	0.0015 in to 0.2 in	4 1/2 in	Steel	1/2 in	+/-0.00025 in	Inch	Starrett	2ZVE1
0.0040 in	12 in	—	Inch	Proto	3R023	1	13	0.04 mm to 5.00 mm	114 mm	Steel	1/2 in	+/-0.004 mm	Metric	Starrett	30C281
0.0040 in	12 in	+/-0.00020 in	Inch	Precision Brand	5XE18	12	13	0.05 mm to 1 mm	100 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	16X228
0.0050 in	12 in	—	Inch	Proto	3R025	1	15	0.06 mm to 0.70 mm	3 in	Steel	1/2 in	+/- 4%	Metric	Proto	3R014
0.0050 in	12 in	+/-0.00024 in	Inch	Precision Brand	5XE20	12	20	0.05 mm to 1 mm	77 mm	Steel	1/2 in	+/-0.004 mm	Metric	Starrett	5UAC5
0.010 in	12 in	+/-0.00035 in	Inch	Precision Brand	5XE30	12	25	0.0015 in to 0.04 in	3 in	Steel	1/2 in	—	Inch with Metric Equivalent	Proto	3R002
0.0200 in	12 in	+/-0.00055 in	Inch	Precision Brand	5XE50	12	25	0.04 mm to 1.00 mm	3 5/8 in	Steel	1/2 in	+/- 4%	Metric	Proto	3R015
0.03 mm	300 mm	+/-0.00016 in	Metric	Starrett	26Z278	1	26	0.0015 in to 0.025 in	3 1/2 in	Steel	1/4 in to 1/2 in	+/-0.00025 in	Inch	Starrett	2ZVC7
0.08 mm	300 mm	—	Metric	Starrett	26Z282	1	28	0.0015 in to 0.035 in	3 1/2 in	Steel	1/2 in	+/-0.00025 in	Inch	Starrett	2ZVE4
Straight Steel Blade Material															
0.001 in	—	+/-0.00012 in	Inch with Metric Equivalent	Precision Brand	5XB93	1	28	0.05 mm to 1 mm	150 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	16X227
0.0015 in	—	+/-0.00012 in	Inch with Metric Equivalent	Precision Brand	5XE11	1	31	0.0015 in to 0.035 in	3 1/2 in	Steel	1/4 in to 1/2 in	+/-0.00025 in	Inch	Starrett	4CEN4
0.002 in	—	+/-0.00016 in	Inch with Metric Equivalent	Precision Brand	5XE13	1	32	0.0015 in to 0.035 in	2 5/8 in	Steel with Brass	3/4 in	0.015 in to .035 in	Inch with Metric Equivalent	Insizes	463T14
0.003 in	—	+/-0.00020 in	Inch with Metric Equivalent	Precision Brand	5XE17	1	36	0.002 in to 0.035 in	3 in	Steel with Brass	1/2 in	-0.003 mm + 0.005 mm	Blades Etched with SAE and Metric Size	Westward	44ZE49
0.005 in	—	+/-0.00020 in	Inch with Metric Equivalent	Precision Brand	5XE21	1									
0.006 in	—	+/-0.00024 in	Inch with Metric Equivalent	Precision Brand	5XE23	1									
0.01 in	—	+/-0.00035 in	Inch with Metric Equivalent	Precision Brand	5XE31	1									

Digital Thickness Gauges

- Cable data output
- For SPC processors and accessories see page 2221

These high-resolution digital thickness gauges are used to measure the thickness of materials like sheet metal or paper. They have decimal inch and metric readings and are commonly used in machining, engineering, and metal fabrication applications.

Range	Res.	Throat Depth	Accuracy	Contact Material	Anvil Shape	Anvil Diameter	Brand	Item No.
SPC Output Yes								
0 in to 1/2 in, 0 mm to 12 mm	0.0005 in, 0.01 mm	20 mm	+/-0.001 in	Steel	Point	0.256 in	Mitutoyo	33RK40
	0.00005 in/0.001 mm	30 mm	+/-0.00015 in	Ceramic	Flat	0.25 in	Mitutoyo	4CGW3
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	4CGW4
	0.0001 in, 0.001 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.4 in	Mitutoyo	4CGW5
	0.0001 in, 0.001 mm	30 mm	+/-0.0002 in	Ceramic	Flat	—	Mitutoyo	39X538
0 in to 1 in, 0 mm to 25 mm	0.00002 in/0.01 mm, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm	25 mm, 1 in	+/-0.002 in	Hardened Stainless Steel	Round	0.157 in	Mahr	45PG02
Long Form Calibration Certificate: Yes								
0 in to 1/2 in, 0 mm to 12 mm	0.0005 in, 0.01 mm	4.7 in	+/-0.001 in	Ceramic	Flat	0.394 in	Mitutoyo	5RCG7
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	36J718
SPC Output No								
0 in to 1/2 in, 0 mm to 12.7 mm	0.0005 in, 0.01 mm	0.75 in	+/-0.001 in/0.02 mm	—	Flat	0.195 in	Starrett	3CRE8



4CGW5

Pin Gauges

- Class X have 0.0001 in. diameter increment, Class ZZ 0.0005 in.
- Class X have a 0.00004 in. tolerance, Class ZZ 0.0005 in.
- Class X diameter ranges from 0.0040 to 1.0000 in. available on Grainger.com
- Class ZZ diameter ranges from 0.0110 to 1.0005 in. available on Grainger.com

Class X No-Go (Minus) pin gauges are unthreaded smooth rods of tool steel used to perform No-Go (Minus) tolerance tests on bores and holes. If the No-Go gauge does not fit into the hole or bore, then the hole is within the acceptable tolerance for the maximum acceptable size. They are also used to calibrate measuring equipment. These gauges are 2" long and come with a short-form certificate of accuracy stating they are traceable to NIST. **Class ZZ** gauges are for general purpose use and come unfinished or with black oxide coating to indicate signs of wear. They are also used to calibrate measuring equipment and come with a short-form certificate of accuracy that confirms they are within specs traceable to NIST.

Class X
Go (Plus)

CHOOSE: Dia.	CHOOSE: Finish	Item No.
X Go (Plus)		
0.0040 in to 0.0250 in	Uncoated	J5717
0.0251 in to 0.0750 in	Uncoated	J5719
0.0751 in to 0.2810 in	Uncoated	J5720
0.2811 in to 0.4060 in	Uncoated	J5721
0.4061 in to 0.5100 in	Uncoated	J5722
0.5101 in to 0.6350 in	Uncoated	J5723
0.6351 in to 0.7600 in	Uncoated	J5724
0.7601 in to 1.0000 in	Uncoated	J5725

CHOOSE: Dia.	CHOOSE: Finish	Item No.
X No-Go (Minus)		
0.0040 in to 0.0250 in	Uncoated	K7018
0.0251 in to 0.0750 in	Uncoated	K7022
0.0751 in to 0.2810 in	Uncoated	K7032
0.2811 in to 0.4060 in	Uncoated	K7074
0.4061 in to 0.5100 in	Uncoated	K7100
0.5101 in to 0.6350 in	Uncoated	K7121
0.6351 in to 0.7600 in	Uncoated	K7146
0.7601 in to 1.0000 in	Uncoated	K7171

CHOOSE: Dia.	CHOOSE: Finish	Item No.
ZZ Go (Plus)		
0.0040 in to 0.0105 in	Uncoated, Black Oxide	K2889
0.0110 in to 0.0605 in	Uncoated, Black Oxide	J5804
0.0610 in to 0.5005 in	Uncoated, Black Oxide	J5805
0.5010 in to 0.6255 in	Uncoated, Black Oxide	J5807
0.6260 in to 0.7505 in	Black Oxide	J5808
0.7510 in to 0.8325 in	Black Oxide	J5809
0.8330 in to 0.9165 in	Black Oxide	J5810
0.9170 in to 1.0005 in	Black Oxide	J5811

CHOOSE: Dia.	CHOOSE: Finish	Item No.
ZZ No-Go (Minus)		
0.0110 in to 0.0605 in	Uncoated, Black Oxide	K2898
0.0610 in to 0.5005 in	Uncoated, Black Oxide	K2901
0.5010 in to 0.6255 in	Uncoated, Black Oxide	K6961
0.6260 in to 0.7505 in	Uncoated, Black Oxide	K6966
0.7510 in to 0.8325 in	Uncoated, Black Oxide	K6971
0.8330 in to 0.9165 in	Black Oxide	K6975
1.30mm to 0.99mm	Uncoated	K2929
10.00mm to 13.99mm	Uncoated	K2927

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