PRECISION Starrett PROTOC Mitutoyo +///S/ZE+ WESTWARD

Feeler Gauges and Sets

Individual feeler gauges have a ½" 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.

0.0040 in 12 in Inch Proto Stell 20 mm Stell 20 mm 300 mm Inch Starrett 20 mm 300 mm Inch Starrett 20 mm 300 mm Inch Starrett 20 mm 300 mm 10 mm Starrett 20 mm 300 mm 10 mm Metric Starrett 0.0050 in 12 in Inch Precision Brand SKE30 12 13 0.0015 in to 14 mm Steel ½ in +/-0.0024 in Metric Starrett Mituoyo 0.0010 in 12 in +/-0.00035 in Inch Precision Brand SKE30 12 13 0.005 mm to 1 mm 3 in Steel ½ in +/-4% Metric Starrett 0.03 mm 300 mm Metric Starrett 262282 1 20 0.05 mm 3 in Steel ½ in +/-4% Metric Starrett 0.001 in +/-0	Number															
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Stainless Steel Blade Material Precision Brand 42DJ93 Precision Brand 5XB92 Precision Brand 5XE1 Precision Brand 5XE2 Precision Brand 5XE3 Precision			Toterance	Warkings	Brand	NO.	uty.			Length	material	Blade Width	Toterance	warkings	Brand	No.
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Steel Biade Material Double into 0.02 in 4 % in Steel ½ in — Equivalent Proto 0.0010 in 12 in — Inch Precision Brand 5X892 12 Inch 0.002 in 3 in Steel ½ in — Inch with Metric Equivalent Proto 0.0020 in 12 in +/-0.00012 in Inch Precision Brand 5XE12 12 Short Blade Style 9 0.0015 in to 3 ½ in 4 ½ in +/-0.00025 in Inch Starrett 0.0040 in 12 in +/-0.00020 in Inch Precision Brand 5XE13 12 9 0.0015 in to 3 ½ in 5teel ½ in +/-0.00025 in Inch Starrett 0.0050 in 12 in +/-0.00024 in Inch Precision Brand 5XE20 12 13 0.004 mm to 14 ½ in +/-0.004 mm Metric Starrett 5.00 mm 14 mm Steel ½ in +/-0.004 mm Metric Proto 0.0020 in 12 in +/-0.0004 i				Inch	Dragicion Brand	420 102	10	DUILDI						Inch with Matria		
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0.0010 in 12 in +/-0.0012 in Inch Precision Brand SXB92 12 16 0.027 in 3 in Steel 52 in — Equivalent Proto 0.0020 in 12 in +/-0.00016 in Inch Precision Brand SXE12 2 0.0030 in 12 in +/-0.00020 in Inch Precision Brand SXE12 2 0.0030 in 12 in +/-0.00020 in Inch Precision Brand SXE14 12 0.0015 in to 3 t/a in Steel ½ in +/-0.00025 in Inch Starrett 0.0040 in 12 in +/-0.00024 in Inch Precision Brand SXE13 12 0.0015 in to 0.2 in 4 ½ in +/-0.00025 in Inch Starrett 0.0050 in 12 in +/-0.00024 in Inch Precision Brand SXE30 12 0.06 mm to 14 mm Steel ½ in +/-0.004 mm Metric Starrett 0.0200 in 12 in +/-0.0003 in Inch Metric Starrett 262278 12 0.06 mm to 3 in<				Inch	Starrett	5UAC8	1	- 10	0.009 in to	o :	01 1	44.5			D .	50500
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0.0050 in 12 in Inch Proto 3R025 1 13 0.04 mm to 114 mm Steel ½ in +/-0.004 mm Metric Starrett 0.0050 in 12 in +/-0.00025 in Inch Precision Brand 5XE30 12 13 0.05 mm to 1 mm 100 mm Steel 13 mm +/-0.004 mm Metric Starrett 0.020 in 12 in +/-0.00026 in Inch Precision Brand 5XE30 12 13 0.05 mm to 1 mm 100 mm Steel 13 mm +/-0.004 mm Metric Metric Proto 0.03 mm 30 mm - Metric Starrett 262282 1 20 0.05 mm to 1 mm 77 mm Steel ½ in +/-4% Metric Proto Straight - Herric Starrett 262282 1 20 0.05 mm to 1 mm 77 mm Steel ½ in +/-4% Metric Proto 0.0015 in - +/-0.00012 in Inch with Metric Precision Brand 5XE31 1 26							1	- 10								2ZVE1
0.0050 in 12 in +/-0.0024 in Inch Precision Brand 5K220 12 13 5.00 mm 114 mm Steel ½ in +/-0.004 mm Metric Starrett 0.001 in 12 in +/-0.00035 in Inch Precision Brand 5K230 12 13 0.05 mm to 1 mm 100 mm Steel 13 mm +/-0.004 mm Metric Mitutoyo 0.0200 in 12 in +/-0.0004 in Metric Starrett 262278 1 0.06 mm to 1 mm 70 mm Steel 13 mm +/-4.4% Metric Proto 0.03 mm 300 nm - Metric Starrett 262278 1 0.06 mm to 1 mm 77 mm Steel ½ in +/- 4.4% Metric Proto 0.001 in - +/-0.00012 in Inch with Metric Frecision Brand 5KB93 1 20 0.004 in 3 in Steel ½ in +/- 4.4% Metric Proto 0.0015 in to - +/-0.00012 in Inch with Metric Precision Brand 5KE11 25 0.04 mm to 3 in <td></td> <td></td> <td>+/-0.00020 111</td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			+/-0.00020 111				12									
0.010 in 12 in +/-0.0035 in Inch Precision Brand SXE30 12 0.0200 in 12 in +/-0.00055 in Inch Precision Brand SXE30 12 0.030 mm 300 mm -/-0.0004 mm Metric Starrett 262278 1 0.06 mm to 3 in Steel ½ in +/- 4.% Metric Proto Straight - Metric Starrett 262278 1 20 0.05 mm to 13 in Steel ½ in +/-0.004 mm Metric Starrett Starrett 0.001 in - +/-0.00012 in Inch with Metric Precision Brand SXE93 1 25 0.0015 in to 3 in Steel ½ in -/- Inch with Metric Proto 0.0015 in - +/-0.00012 in Inch with Metric Precision Brand SXE93 1 26 0.0015 in to 3 ½ in Steel ½ in +/- 4.% Metric Proto 0.0015 in - +/-0.00012 in Inch with Metric <td></td> <td></td> <td>±/-0.00024 in</td> <td></td> <td></td> <td></td> <td>12</td> <td>13</td> <td></td> <td>114 mm</td> <td>Steel</td> <td>1⁄2 in</td> <td>+/-0.004 mm</td> <td>Metric</td> <td>Starrett</td> <td>30C281</td>			±/-0.00024 in				12	13		114 mm	Steel	1⁄2 in	+/-0.004 mm	Metric	Starrett	30C281
0.0200 in 12 in 4/-0.0055 in Inch Precision Brand SXE50 12 0.03 mm 300 mm	0.010 in							13		100 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	16X228
0.03 mm 300 mm - Metric Starrett 262278 1 - 0.07 mm Steel ½ in +/-0.004 mm Metric Starrett Starrett 0.00 in - +/-0.00012 in Inch with Metric Precision Brand 5XE11 20 0.005 mm to 1 mm 7 mm Steel ½ in +/-0.004 mm Metric Proto 0.001 in - +/-0.00012 in Inch with Metric Precision Brand 5XE11 20 0.004 im 3 ¼e in Steel ½ in +/- 4% Metric Proto 0.0015 in - +/-0.00016 in Inch with Metric Precision Brand 5XE11 26 0.0015 in to 3 ¼e in Steel ½ in +/- 4% Metric Proto 0.002 in - +/-0.00016 in Inch with Metric Precision Brand 5XE11 28 0.0015 in to 3 ½e in Steel ½ in +/-0.00025 in Inch Starrett 0.002 in - +/-0.00020 in Inch with Metric Precision Brand 5XE11 28 0.0015 in to 3 ½e in Steel ½ in +/-0.00025 in								15		3 in	Stool	16 in	1/- 1%	Matric		3R014
StraightStraightStraightSteel Blade Material0.001 in -+/-0.00012 inInch with Metric EquivalentPrecision Brand 5XB93 1250.0015 in to 0.004 min to 1.00 mm3 \$\mathcal{y_6}\$ inSteel1/2 in-/-Inch with Metric EquivalentProto0.0015 in -+/-0.00012 inInch with Metric EquivalentPrecision Brand 5XE11 1260.0015 in to 0.0015 in to 0.0025 in3 \$\mathcal{y_6}\$ inSteel1/2 in+/-4.00025 inInch with Metric EquivalentProto0.001 in -+/-0.00016 inInch with Metric EquivalentPrecision Brand 5XE13 1260.0015 in to 0.0025 in3 \$\mathcal{y_6}\$ inSteel1/2 in+/-0.00025 inInchStarrett0.003 in -+/-0.00020 inInch with Metric EquivalentPrecision Brand 5XE11 1280.0015 in to 0.005 in to 3 \$\mathcal{y_6}\$ inSteel1/2 in+/-0.00025 inInchStarrett0.005 in -+/-0.00020 inInch with Metric EquivalentPrecision Brand 5XE21 1280.005 in to 0.005 in to 3 \$\mathcal{y_6}\$ inSteel1/4 in to \$\mathcal{y_6}\$ in to \$\mathcal{y_6}\$ in to 0.005 in to<																
Steel Blade Material Cound in methods Inch with Metric Equivalent Precision Brand 5XB93 23 0.04 min to 3 % in to 1 min 1 min with Metric Precision Brand 5XB93 23 0.04 min to 3 % in to 1 min 3 % in to 1 min		300 mm		Metric	Starrett	262282	1	20		// mm	Steel	1/2 IN	+/-0.004 mm		Starrett	5UAC5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		le Materia	al					25	0.04 in	3 in	Steel	1⁄2 in	_		Proto	3R002
$\frac{1}{100015 \text{ in } - \frac{1}{1000022 \text{ in } - \frac{1}{10000022 \text{ in } - \frac{1}{1000022 \text{ in }$	0.001 in	—	+/-0.00012 in		Precision Brand	5XB93	1	25	1.00 mm	3 5⁄16 in	Steel	1⁄2 in	+/- 4%	Metric	Proto	3R015
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0.0015 in	_	+/-0.00012 in		Precision Brand	5XE11	1	26		3 1⁄32 in	Steel	1⁄4 in to 1⁄2 in	+/-0.00025 in	Inch	Starrett	2ZVC7
0.003 in +/-0.0020 in Inch with Metric Precision Brand 5XE17 1 28 0.05 mm to 1 mm 150 mm Steel 13 mm +/-0.004 mm Metric Mitutoyo 0.005 in +/-0.0024 in Inch with Metric Equivalent Precision Brand 5XE17 1 28 0.05 mm to 1 mm 150 mm Steel 13 mm +/-0.0024 mm Metric Mitutoyo 0.005 in +/-0.0024 in Inch with Metric Equivalent Precision Brand 5XE21 1 0.0015 in to 0.0015 in to 3 ½ in Steel 14 in to ½ in +/-0.0024 in Inch with Metric Equivalent Inside Etched Inside Etched Inside Etched Inside Etched Mitutoyo 0.015 in to	0.002 in	_	+/-0.00016 in		Precision Brand	5XE13	1	28	0.0015 in to 0.035 in	3 1⁄32 in	Steel	1⁄2 in	+/-0.00025 in	Inch	Starrett	2ZVE4
Outrig Inch with Metric Precision Brand 5XE21 1 0.005 in +/-0.00024 in Inch with Metric Precision Brand 5XE21 1 0.006 in +/-0.00024 in Inch with Metric Precision Brand 5XE21 1 0.006 in +/-0.00024 in Inch with Metric Precision Brand 5XE21 1 0.005 in +/-0.00024 in Inch with Metric Precision Brand 5XE21 1 0.005 in - +/-0.0015 in to 0.015 in to 0.035 in 2 %/4 in Steel with 0.015 in 0.015 in to 0.002 in to 3 in Steel with %4 in 0.035 in Equivalent 0.015 in 0.005 in 0.002 in to 3 in Steel with %4 in 0.035 in Equivalent 0.015 in to 0.005 in 0.005 in to 0.005 in 3 in Steel with %4 in 0.035 in Equivalent	0.003 in		. /-0.00020 in		Precision Brand	5VE17	1	28		150 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	16X227
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0.003 111		+/-0.00020 III			JALII		31		3 1/32 in	Steel	1/4 in to 1/2 in	+/-0 00025 in	Inch	Starrett	4CFN4
0.006 in — +/-0.0024 in Inch with Metric Precision Brand 5XE23 1 Equivalent Chevith Metric Precision Brand 5XE23 1 0.01 in	0.005 in	_	+/-0.00024 in		Precision Brand	5XE21	1								otarrott	
0.005 in								32		2 ⁶¹ ⁄ ₆₄ in		3⁄64 in			Insize	463T14
0.01 in vito 0.0025 in Inch with Metric provision Proved EVE21 1 36 0.002 in 10 3 in Steel With 1/2 in -0.003 min + with SAE and Westward	0.006 in	_	+/-0.00024 in		Precision Brand	5XE23	1									
Contrin — 4/-0.0003 in Equivalent Precision Brand SACST in Brass 0.005 init Metric Size	0.01 in	_	+/-0.00035 in	Inch with Metric	Precision Brand	5XE31	1	36	0.002 in to 0.035 in	3 in	Steel with Brass	1⁄2 in	-0.003 mm + 0.005 mm		Westward	44ZE49

Long Blade

3R019

Digital Thickness Gauges

Mitutoyo Mahr Starrett

4CGW5

Cable data outputFor SPC processors and

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.

accessories	see page 2221	.	Ū.					
Range	Res.	Throat Depth	Accuracy	Contact Material	Anvil Shape	Anvil Diameter	Brand	ltem No.
SPC Output Yes								
	0.0005 in, 0.01 mm	20 mm	+/-0.001 in	Steel	Point	0.256 in	Mitutoyo	33RK40
0 in to 1/2 in, 0	0.00005 in/0.001 mm	30 mm	+/-0.00015 in	Ceramic	Flat	0.25 in	Mitutoyo	4CGW3
mm to 12 mm	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	4CGW4
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.4 in	Mitutoyo	
	0.0001 in, 0.001 mm	30 mm	+/-0.0002 in	Ceramic	Flat	—	Mitutoyo	39X538
	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
	ration Certificate: Yes							
0 in to ½ in, 0	0.0005 in, 0.01 mm	4.7 in	+/-0.001 in	Ceramic	Flat		Mitutoyo	
mm to 12 mm	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	36J718
SPC Output No								
0 in to ½ 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

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.

	(PIL)
Vermont	()

Class X Go (Plus)

available on Gra						►CHOOSE: Dia.	CHOOSE: Finish	ltem No.	►CHOOSE: Dia.	CHOOSE: Finish	ltem No.
	CHOOSE: Item					ZZ Go (Plus)			ZZ No-Go (Minus)		
CHOOSE: Dia.	Finish	No.	►CHOOSE: Dia.	CHOOSE: Finish	ltem No.	0.0040 in to 0.0105 in	Uncoated, Black Oxide	K2889	0.0110 in to 0.0605 in	Uncoated, Black Oxide	K2898
X Go (Plus) 0.0040 in to 0.0250 in		J5717	X No-Go (Minus) 0.0040 in to 0.0250 in	Uncoated	K7018	0.0110 in to 0.0605 in	Uncoated, Black Oxide	J5804	0.0610 in to 0.5005 in	Uncoated, Black Oxide	K2901
0.0251 in to 0.0750 in 0.0751 in to 0.2810 in		J5719 J5720	0.0251 in to 0.0750 in 0.0751 in to 0.2810 in	Uncoated Uncoated	K7022 K7032	0.0610 in to 0.5005 in	Upposted	J5805	0.5010 in to 0.6255 in	Uncoated Uncoated,	K6961
0.2811 in to 0.4060 in 0.4061 in to 0.5100 in		J5721 J5722	0.2811 in to 0.4060 in	Uncoated	K7074	0.5010 in to 0.6255 in	Uncoated	J5807	0.6260 in to 0.7505 in	Black Oxide	K6966
0.5101 in to 0.6350 in	Uncoated	J5723	0.4061 in to 0.5100 in 0.5101 in to 0.6350 in	Uncoated Uncoated	K7100 K7121	0.6260 in to 0.7505 in 0.7510 in to 0.8325 in		J5808 J5809	0.7510 in to 0.8325 in 0.8330 in to 0.9165 in	Uncoated Black Oxide	K6971 K6975
0.6351 in to 0.7600 in 0.7601 in to 1.0000 in		J5724 J5725	0.6351 in to 0.7600 in 0.7601 in to 1.0000 in	Uncoated Uncoated	K7146 K7171	0.8330 in to 0.9165 in 0.9170 in to 1.0005 in		J5810 J5811	1.30mm to 9.99mm 10.00mm to 13.99mm	Uncoated Uncoated	K2929 K2927
			0.7001 1110 1.0000 111	Uncoaleu	K/1/1	0.3170 111 10 1.0003 111	DIACK UNIUE	33011	10.001111110 13.3311111	Uncoaleu	KZ JZ I

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Set 463T14