

INSPECTION BALL KITS

GRADE 25 CHROME STEEL (R/C 60 MIN.)



Inspection ball kits are available from stock in the 14 most popular English sizes from 3/32" to 1.00", individually or all in a kit. The kit for each individual size contains 7 balls. A nominal fractional ball as well as one each of a +0.002", +0.001", +0.0005", +0.0002", and -0.001", -0.002". Kit BK-14 consists of all 14 individual size kits. The inspection ball kits are also excellent for ball sizing parts. Ball sizing is basically pushing a ball through a hole or tube which produces a certain finish or size.

Part #	Nominal Size		Price
BK-14	14 Sizes From 3/32" - 1" Kit	—	\$493.07
093-BK	3/32"	2.381 mm	42.81
125-BK	1/8"	3.175 mm	42.81
156-BK	5/32"	3.969 mm	42.81
187-BK	3/16"	4.763 mm	42.81
218-BK	7/32"	5.556 mm	42.81
250-BK	1/4"	6.35 mm	42.81
312-BK	5/16"	7.938 mm	44.50
375-BK	3/8"	9.525 mm	44.50
437-BK	7/16"	11.113 mm	44.50
500-BK	1/2"	12.7 mm	41.21
625-BK	5/8"	15.875 mm	41.21
750-BK	3/4"	19.05 mm	51.04
875-BK	7/8"	22.225 mm	61.10
100-BK	1"	25.4 mm	61.10

Grade 25

BASIC DIAMETER

TOLERANCE = $\pm .0001$

DEVIATION FROM
SPHERICAL FORM
.000025

DECIMAL DIAMETER BALLS, OTHER MATERIALS AND
TOLERANCES AVAILABLE

CALL FOR PRICING & DELIVERY

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

CLASS X MEYER GAGE MG-25 SERIES



MG-25 PIN GAGE SETS

IN .0001" INCREMENTS OR .01mm INCREMENTS

Used as masters to calibrate measuring equipment and check linearity of comparators, micrometers, and calipers. These "Tenth Step" gage sets have unlimited applications, such as quality control inspection, prototype work and production layout. Inspectors select from the range of pins to find the size of a hole or slot. These round masters simulate a cylindrical part which unlike flat blocks can detect uneven wear on the tips of micrometers and calipers. The thin "line" of contact detects uneven face wear better than flat gage blocks with large contact area.

**SEE PAGE 67 FOR
MORE CLASS X GAGE SETS**

FEATURES:

- Each set contains 25 pieces of Class X tolerance (.00004") gage pins. Traceable to NIST.
- Choice of two tolerances Plus (+.00004") or Minus (-.00004").
- Sets consist of a center nominal size, and 12 gages larger in .0001" steps and 12 gages smaller in .0001" steps.
- Each gage is inspected and has a 2 micro-finish or better.
- Heat treated and through hardened to 60-62 Rockwell C.
- All pin gages over .060" or 1.51mm are laser marked with size direction of tolerance and serial number for traceability.

GAGE SET NO.	NOMINAL SIZE RANGE		SET PRICE
	<i>English</i>	<i>or</i> <i>Metric</i>	
MG1-25	.0110 to .0609	.28mm to 1.54mm	\$257.65
MG2-25	.0610 to .2509	1.55mm to 6.37mm	\$128.18
MG3-25	.2510 to .5009	6.38mm to 12.72mm	\$147.77
MG4-25	.5010 to .7499	12.73mm to 19.04mm	\$203.92
MG5-25	.7500 to .8129	19.05mm to 20.64mm	\$285.50

To order simply select your nominal size from any .0001" English or .01mm Metric increment and direction of tolerance. Then refer to the above chart to find the set price.

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PRECISION PLUG GAGE SETS



METRIC GAGE SETS

Gage Set Number	Gage Size	No. of Members	Price	Separate Member Price
WTH-0	.011 - .060	50	77.19	3.01
WTH-0-5	.0115 - .0605	50	77.19	3.01
WTH-1	.061 - .250	190	173.67	2.69
WTH-1-5	.0615 - .2505	190	173.67	2.69
WTH-10	.011 - .250	240	237.99	—
WTH-105	.0115 - .2505	240	237.99	—
WTH-2	.251 - .500	250	257.28	2.69
WTH-2-5	.2515 - .5005	250	257.28	2.69
WTH-3	.501 - .625	125	302.32	3.69
WTH-3-5	.5015 - .6255	125	302.32	3.69
WTH-4	.626 - .750	125	334.47	5.36
WTH-4-5	.6265 - .7505	125	334.47	5.36
WTH-5	.751 - .832	82	568.07	8.04
WTH-5-5	.7515 - .8325	82	568.07	8.04
WTH-6	.833 - .916	84	662.74	9.19
WTH-6-5	.8335 - .9165	84	662.74	9.19
WTH-7	.917 - 1.000	84	694.30	9.50
WTH-7-5	.9175 - 1.0005	84	694.30	9.50

IN .001 INCREMENTS

Gage Set Number	Gage Size	No. of Members	Price	Separate Member Price
WTH-0 mm	.22mm - 1.50mm	65	100.34	3.69
WTH-01 mm	.23mm - 1.51mm	65	100.34	3.69
WTH-1 mm	1.52mm - 7.70mm	310	353.76	3.35
WTH-11 mm	1.53mm - 7.71mm	310	353.76	3.35
WTH-2 mm	7.72mm - 12.70mm	250	380.78	3.35
WTH-21 mm	7.73mm - 12.71mm	250	380.78	3.35
WTH-3 mm	12.72mm - 15.30mm	130	421.95	4.22
WTH-31 mm	12.73mm - 15.31mm	130	421.95	4.22
WTH-4 mm	15.32mm - 17.80mm	125	447.68	6.62
WTH-41 mm	15.33mm - 17.81mm	125	447.68	6.62
WTH-5 mm	17.82mm - 20.36mm	128	531.46	7.96
WTH-51 mm	17.83mm - 20.37mm	128	531.46	7.96
WTH-6 mm	20.38mm - 22.04mm	84	636.23	9.32
WTH-61 mm	20.39mm - 22.05mm	84	636.23	9.32
WTH-7 mm	22.06mm - 23.72mm	84	734.70	10.44
WTH-71 mm	22.07mm - 22.73mm	84	734.70	10.44
WTH-8 mm	23.74mm - 25.40mm	84	754.90	11.74
WTH-81 mm	23.75mm - 25.41mm	84	754.90	11.74

IN .02mm INCREMENTS

IMPORTANT: SPECIFY PLUS OR MINUS TOLERANCE WHEN ORDERING GAGES

PLASTIC CASES

EACH HOLE SIZE MARKED ON INSERT.

Plastic insert for WTH-0 set	\$16.05 each
Plastic insert for WTH-1 thru WTH-8 sets	32.10 each
Plastic case for WTH-0 set	16.05 each
Plastic case for WTH-1 thru WTH-7 sets	32.10 each
Plastic case with insert for WTH-0 set	32.10 each
Plastic case with insert for WTH-1 thru WTH-7 sets	64.20 each

USES

- Checking locations.
- Measuring hole sizes and depths
- Go and No-Go gaging.
- Setting micrometers.
- Checking distances between holes.

FEATURES

- All Gages 2" long
- No sharp edges
- Boxes and Gages both marked (WTH-0 pins not etched)
- 8 Micro finish or better
- All english gages are inspected within .0001 tolerance limits
- All metric gages are inspected within .0025mm tolerance limits
- Heat treated to a hardness of Rockwell C 60-62
- Each set packaged in its own plastic case

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PRECISION PLUG GAGE SETS



CLASS X GAGE SETS .001 INCREMENTS

Gage Set	Range	Number of Members	Price	Separate Member Price
WTH-OX	.011" - .060"	50	424.19	15.41
WTH-O5X	.0115 - .0605	50	424.19	15.41
WTH-1X	.061 - .250	190	1114.69	15.41
WTH-15X	.0615 - .2505	190	1114.69	15.41
WTH-2X	.251 - .500	250	1474.46	12.45
WTH-25X	.2515 - .5005	250	1474.46	12.45
WTH-3X	.501 - .625	125	1252.16	17.70
WTH-35	.5015 - .6255	125	1252.16	17.70
WTH-4X	.626 - .750	125	1327.01	17.70
WTH-45	.6265 - .7505	125	1327.01	17.70
WTH-5X	.751 - .832	82	1114.92	21.95
WTH-55X	.7515 - .8325	82	1114.92	21.95
WTH-6X	.833 - .916	84	1173.90	21.95
WTH-65X	.8335 - .9165	84	1173.90	21.95
WTH-7X	.917 - 1.000	84	1346.30	21.95
WTH-75X	.9175 - 1.0005	84	1346.30	21.95

.000040 tolerance • Each set packaged in Plastic Case and Insert.

GAGE SET LIBRARIES: Conveniently store all your gages in one location

IMPORTANT! Specify plus or minus tolerance when ordering gages

.0001 (CLASS Z) LIBRARY SERIES

Model Number	Wt./lbs.	Range	Number of members	Price
L-S	87	.011" - .625"	(615 gages)	918.04
L-C	120	.011" - .750"	(740 gages)	1,329.70
L-1	120	.061" - .750"	(690 gages)	1,269.59
L-2	95	.061" - .5005"	(880 gages in .0005" increments)	1,077.22
L-2C	96	.011" - .5005"	(980 gages in .0005" increments)	1,197.45
L-3*	240	.061" - 1.000"	(940 gages)	3,236.47
L-4*	240	.011" - 1.000"	(990 gages)	3,296.58
L-5	140	.751" - 1.000"	(250 gages)	2,117.17

.00004 (CLASS X) LIBRARY SERIES

Model Number	Wt./lbs.	Range	Number of members	Price
L-CX	120	.011" - .750"	(740 gages)	5,528.09
L-1X	122	.061" - .750"	(690 gages)	5,126.58
L-2X	98	.061" - .5005"	(880 gages in .0005 increments)	5,039.25
L-2CX	100	.011" - .5005"	(980 gages in .0005" increments)	5,761.74
L-3X*	260	.061" - 1.000"	(940 gages)	8,660.75
L-4X*	250	.011" - 1.000"	(990 gages)	9,003.28

* Consists of one seven drawer cabinet.

METRIC LIBRARY SERIES (.0025mm)

Model Number	Wt./lbs.	Range	Number of members	Price
L-10 mm	124	1.52mm - 17.80mm	(815 gages)	1,770.92
L-11 mm	124	1.53mm - 17.81mm	(815 gages)	1,770.92
L-20 mm	183	17.82mm - 25.40mm	(380 gages)	2,802.46
L-21 mm	183	17.83mm - 25.41mm	(380 gages)	2,802.46
L-30 mm**	305	1.52mm - 25.40mm	(1195 gages)	4,573.37
L-31 mm**	305	1.53mm - 25.41mm	(1195 gages)	4,573.37

**Consists of 2 four drawer cabinets

Upgrade Existing Sets

Model Number	Wt./lbs.	Description	Price
L-E 4	38	four drawer cabinet empty	318.59
L-IN 4	46	four drawer cabinet with four inserts of your choice	390.73

WILLIAM T. HUTCHINSON CO.

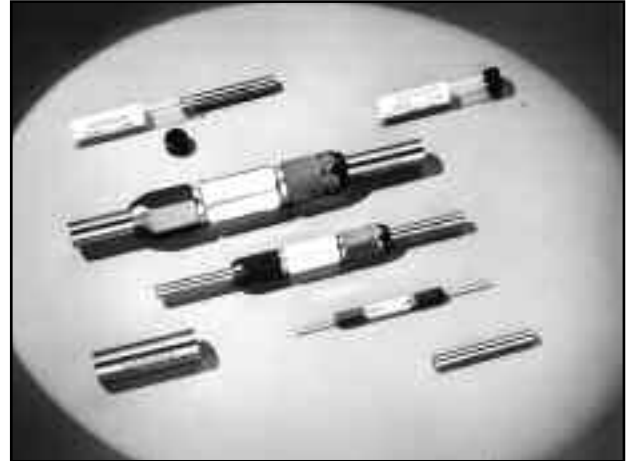
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REVERSIBLE PLUG GAGES

Hutchinson HSS gages are an ideal low cost solution to a variety of dimensioning problems.

All gage members are made of M2 high speed steel hardness "C" 62-64.



YOUR CHOICE OF THREE TOLERANCES

+ .0002	+ .0000	+ .0001
- .0000	• - .0002	• - .0001

2" LONG HSS GAGE MEMBER PRICES

<p>.0100-.0200 3.56 .254 MM - .508 MM</p> <p>.0201-.0312 3.36 .511 MM - .793 MM</p> <p>.0313-.0625 3.24 .795 MM - 1.588MM</p> <p>.0626 - .0938..... 3.30 1.590 MM - 2.383 MM</p> <p>.0939 - .1250 3.54 2.385MM - 3.175 MM</p> <p>.1251 - .1875..... 4.57 3.178 MM - 4.763 MM</p> <p>.1876 - .2500 4.98 4.765 MM - 6.350 MM</p> <p>.2501-.3125 5.43 6.353 MM - 7.938 MM</p> <p>.3126 - .3750.....5.73 7.940 MM - 9.525 MM</p>	<p>.3751-.4375 6.21 9.528. MM - 11.113 MM</p> <p>.4376-.5000 6.45 11.115 MM - 12.700 MM</p> <p>.5001 - .5625 7.69 12.703 - 14.288 MM</p> <p>.5626 - .6250 8.31 14.290 MM - 15.875 MM</p> <p>.6251 - .6875 9.32 15.878 MM - 17.463 MM</p> <p>.6876 - .7500 10.11 17.465 MM - 19.050 MM</p> <p>.7501 - .8125 11.33 19.053 MM - 20.638 MM</p> <p>.8126 - .8750 12.34 20.640 MM - 22.225 MM</p> <p>.8751 - .9375 14.49 22.228 MM - 23.813 MM</p>	<p>.9376-1.0000 15.82 23.815 MM - 25.400 MM</p> <p>1.0001-1.0625 19.54 25.403 MM - 26.988 MM</p> <p>1.0626-1.1250. 21.77 26.990 MM - 28.575 MM</p> <p>1.1251 - 1.1875..... 25.35 28.578 MM - 30.163 MM</p> <p>1.1876 - .1.2500 25.89 30.165 MM - 31.750 MM</p> <p>1.2501 - 1.3125..... 27.61 31.753 MM - 33.338 MM</p> <p>1.3126 - 1.3750 30.20 33.340 MM - 34.925 MM</p> <p>1.3751 - 1.4375..... 33.71 34.928 MM - 36.513 MM</p> <p>1.4376 - 1.5000..... 37.08 36.515 MM - 38.100 MM</p>
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Standard Plug Gage Classes For Product Tolerances

Normal practice for product gage tolerance is to allow 10% of the product to be equally divided between "go" and "no-go". In the case of plug gages, "go" is normally a plus tolerance and "no-go" is normally a minus tolerance.

Standard Gagemakers' Tolerance Chart

Size Range	CLASS XXXX	CLASS XXX	CLASS XX	CLASS X	CLASS Y	CLASS Z
Above						
.0009 - .010	.000005	.00001	.00002	.00004	.00007	.00010
.010 - .029	.000005	.00001	.00002	.00004	.00007	.00010
.029 - .825	.000005	.00001	.00002	.00004	.00007	.00010
.825 - 1.510	.000008	.000015	.00003	.00006	.00009	.00012
1.510 - 2.510	.00001	.00002	.00004	.00008	.00012	.00016
2.510 - 4.510	.000013	.000025	.00005	.00010	.00015	.00020
4.510 - 6.510	.000017	.000033	.000065	.00013	.00019	.00025
6.510 - 9.010	.00002	.00004	.00008	.00016	.00024	.00032
9.010 - 12.260	.000025	.00005	.00010	.00020	.00030	.00040

PLEASE USE THIS CHART FOR GAGES
ON THE FOLLOWING PAGES

Single or Double End Handles for above gages

Handle Number	Size Range	Price Each
1W	.000 - .075	7.85
2W	.075 - .180	8.10
3W	.180 - .281	9.30
4W	.281 - .406	11.50
5W	.406 - .510	13.80
6W	.510 - .635	17.20
7W	.635 - .760	19.85
8W	.760 - 1.010	29.60

All handles supplied complete with bushings.

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TRILOCKS - STEEL AND CHROME

SIZE RANGE Above - Through	CLASS	STD GO MEMBER ONLY			STD NO GO MEMBER ONLY			HANDLE					
		Length	Steel	Chrome	Length	Steel	Chrome	No.	Price				
.760 IN - .947 IN 19.30 MM - 24.05 MM	XX		70.00	98.00	3/4 in.	62.40	96.00	2 1/2	9.55				
	X	1 1/4 IN	58.39	76.00	19.1MM	53.70	76.00						
	Y	31.8 MM	52.00	73.00		46.09	73.00						
	Z		50.00	70.00		39.19	70.00						
.947 IN - 1.135 IN 24.05 MM - 28.83 MM	XX		72.00	101.00	3/4 in.	63.09	97.00	3 1/2	10.40				
	X	1 3/8 IN	59.97	80.00	19.1 MM	54.86	76.00						
	Y	34.9 MM	55.00	77.00		47.12	73.00						
	Z		53.00	75.00		41.67	70.00						
1.135 IN - 1.510 IN 28.83 MM - 38.35 MM	XX		77.00	108.00	3/4 IN.	67.44	103.00	4 1/2	11.95				
	X	1 1/2 IN.	65.58	85.26	19.1 MM	59.84	79.00						
	Y	38.1 MM	54.39	76.00		49.62	75.00						
	Z		52.00	73.00		42.78	70.00						
1.510 IN - 2.010 IN 38.35 MM - 51.05 MM	XX		111.18	144.54		100.74	130.97	5 1/2	14.80				
	X	1 7/8 IN	93.97	122.17	7/8 IN	81.96	106.54						
	Y	47.8 MM	84.44	109.77	22.2 MM	73.64	95.73						
	Z		68.82	98.00		64.40	91.00						
2.010 IN - 2.510 IN 51.05 MM - 63.75 MM	XX		133.50	173.55		121.48	157.92	6	15.50				
	X	2 IN	111.18	144.54	7/8 IN	100.74	130.97						
	Y	50.8 MM	98.40	127.91	22.2 MM	86.04	112.00						
	Z		82.71	112.00		73.24	107.00						
2.510 IN - 3.010 IN 63.75 MM - 76.45 MM	XX		151.49	196.94		133.16	173.11	7	19.75				
	X	2 IN	129.16	167.90	1 IN	108.01	140.41						
	Y	50.8 MM	111.18	144.54	25.4MM	96.82	126.00						
	Z		92.12	119.75		83.41	110.00						
3.010 IN - 3.510 IN 76.45 MM - 89.15 MM	XX		202.00	283.00		159.48	223.00	7	19.75				
	X	2 IN	174.00	244.00	1 IN	131.64	201.00						
	Y	50.8 MM	145.00	203.00	25.4 MM	126.23	182.00						
	Z		140.00	196.00		99.23	159.00						
3.510 IN - 4.010 IN 89.15 MM - 101.85 MM	XX		Prices on Application	Prices on Application	1 IN	Prices on Application	Prices on Application	7	19.75				
	X	2 1/8 IN			25.4 MM								
	Y	54.0 MM											
	Z												
4.010 IN - 4.510 IN 101.85 MM - 114.55 MM	XX								1 IN			7	19.75
	X	2 1/8 IN							25.4 MM				
	Y	50.8 MM											
	Z												
4.510 IN - 5.010 IN 114.55MM - 127.25 MM	XX								1 IN			7	19.75
	X	2 1/8 IN							25.4 MM				
	Y	54.0 MM											
	Z												
5.010 IN - 5.510 IN 127.25 MM - 139.95 MM	XX								1 IN			7	19.75
	X	2 1/8 IN							25.4 MM				
	Y	54.0 MM											
	Z												
5.510 IN - 6.010 IN 139.95 MM - 152.65 MM	XX				1 IN			7	19.75				
	X	2 1/8 IN			25.4 MM								
	Y	54.0 MM											
	Z												
6.010 IN - 6.510 IN 152.65 MM - 165.35 MM	XX				1 IN			7	19.75				
	X	2 1/8 IN			25.4 MM								
	Y	54.0 MM											
	Z												
6.510 IN - 7.010 IN 165.35MM - 178.05MM	XX				1 IN			7	19.75				
	X	2 1/8 IN			25.4 MM								
	Y	54.0 MM											
	Z												

Additional sizes available through 8.010 in.

See page 74 for Progressive Trilocks

**Trilocks are also available in Carbide.
Call for pricing and delivery**



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REVERSIBLE PLUG GAGES

Size / Range		Class	Tolerance in inches	Member Length	Reversible Go or No Go			AGD Handle single or double end	
Above	To and Including				Steel	Chrome	Carbide	No.	Price
.011 IN - .020 IN .279 MM - .508 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	47.00 39.00 33.00 32.00	— — — —	— — — —	1 W	7.85
.020 IN - .030 IN .508 MM - .762 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	44.00 36.00 33.00 29.00	— — — —	— — — —	1 W	7.85
.030 IN - .040 IN .762 MM - 1.02 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	25.00 19.00 17.00 14.00	39.00 31.25 26.00 22.25	— — — —	1 W	7.85
.040 IN - .075 IN 1.02 MM - 1.91 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	25.00 19.00 17.00 14.00	39.00 31.25 26.00 22.25	85.00 80.15 75.30 70.40	1 W	7.85
.075 IN - .116 IN 1.91 MM - 2.92 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	27.00 22.00 21.00 17.00	48.25 36.50 31.25 26.00	85.00 80.15 75.30 70.40	2 W	8.10
.116 IN - .130 IN 2.92 MM - 3.30 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	27.00 22.00 21.00 17.00	48.25 36.50 31.25 26.00	54.65 51.00 47.35 44.95	2 W	8.10
.130 IN - .180 IN 3.30 MM - 4.57 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	27.00 22.00 21.00 17.00	48.25 36.50 31.25 26.00	57.05 53.40 49.80 47.35	2 W	8.10
.180 IN - .230 IN 4.57 MM - 5.84 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	28.00 22.00 21.00 18.00	45.50 36.50 32.50 26.00	60.70 57.05 53.40 49.80	3 W	9.30
.230 IN - .281 IN 5.84 MM - 7.14 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	28.00 22.00 21.00 18.00	45.50 36.50 32.50 26.00	69.20 65.55 61.90 58.25	3 W	9.30
.281 IN - .344 IN 7.14 MM - 8.74 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	32.00 26.00 23.00 18.00	50.75 41.75 36.50 26.00	71.65 66.75 63.15 59.50	4 W	11.50
.344 IN - .406 IN 8.74 MM - 10.31 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	32.00 26.00 23.00 18.00	50.75 41.75 36.50 26.00	78.90 75.25 72.85 70.40	4 W	11.50
.406 IN - .460 IN 10.31 MM - 11.68 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	32.00 27.00 24.00 20.00	52.00 44.25 39.00 32.50	85.00 81.35 77.70 74.05	5 W	13.80
.460 IN - .510 IN 11.68 MM - 12.95 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	32.00 27.00 24.00 20.00	52.00 44.25 39.00 32.50	88.65 85.00 81.35 77.70	5 W	13.80

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REVERSIBLE PLUG GAGES

Size / Range		Class	Tolerance in inches	Member Length	Reversible Go or No Go			AGD Handle single or double end	
Above	To and Including				Steel	Chrome	Carbide	No.	Price
.510 IN - .560 IN 12.95 MM - 14.22 MM	XX	.00002	2 IN 50.8 MM	34.00	54.50	127.50	6 W	17.20	
	X	.00004		29.00	47.00	122.60			
	Y	.00007		26.00	44.25	117.75			
	Z	.00010		22.00	35.25	112.90			
.560 IN - .635 IN 14.22 MM - 16.13 MM	XX	.00002	2 IN 50.8 MM	34.00	54.50	139.60	6 W	17.20	
	X	.00004		29.00	47.00	133.55			
	Y	.00007		26.00	44.25	128.70			
	Z	.00010		22.00	35.25	123.85			
.635 IN - .700 IN 16.13 MM - 17.78 MM	XX	.00002	2 IN 50.8 MM	37.00	60.00	150.55	7 W	19.85	
	X	.00004		32.00	50.75	144.45			
	Y	.00007		28.00	47.00	138.40			
	Z	.00010		22.00	36.50	132.35			
.700 IN - .760 IN 17.78 MM - 19.30 MM	XX	.00002	2 IN 50.8 MM	37.00	60.00	186.95	7 W	19.85	
	X	.00004		32.00	50.75	179.70			
	Y	.00007		28.00	47.00	172.40			
	Z	.00010		22.00	36.50	165.10			
.760 IN - .825 IN 19.30 MM - 20.95 MM	XX	.00002	2 IN 50.8 MM	37.00	60.00	—	8 W	29.60	
	X	.00004		32.00	50.75	—			
	Y	.00007		28.00	47.00	—			
	Z	.00010		22.00	36.50	—			
.825 IN - 1.000 IN 20.95 MM - 25.40 MM	XX	.00003	2 IN 50.8 MM	56.00	91.00	—	8 W	29.60	
	X	.00006		47.00	76.70	—			
	Y	.00009		42.00	71.50	—			
	Z	.00012		38.00	59.80	—			

- Go gages supplied with plus tolerance
- No go gages supplied with minus tolerance
- Bi-lateral (Split) tolerances also available at above listed prices
- Extra long gages in steel and chrome are available up to 6 in (152.4mm) for diameters above .075
- Quantity discounts available - Call for quotation
- Certification of calibration available for additional charge
- All handles supplied complete with bushings
- For larger gauges - see trilocks on page 69.
- For class "X" gauges up to 6" long - see page 74.



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RING GAGES

Size / Range Above To and Including	Class	Tolerance in inches	Standard A.G.D Blank size		Price Each		
			Length	O.D.	Steel	Chrome	Carbide
.015 IN - .050 IN 0.381 MM - 1.27 MM	XX	.00002	BLANK #000		PRICES ON APPLICATION	—	—
	X	.00004	$\frac{3}{32}$ IN	$\frac{15}{16}$ IN		—	—
	Y	.00007	2.37 MM	23.8 MM		—	—
	Z	.00010				—	—
.050 IN - .100 IN 1.27 MM - 2.54 MM	XX	.00002	BLANK #00		182.75	—	291.99
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	164.48	—	262.80
	Y	.00007	4.8 MM	23.8 MM	146.20	—	233.60
	Z	.00010			146.20	—	233.60
.100 IN - .150 IN 2.54 MM - 3.81 MM	XX	.00002	BLANK #00		158.92	—	265.45
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	143.02	—	238.90
	Y	.00007	4.8 MM	23.8 MM	127.14	—	212.35
	Z	.00010			127.14	—	212.35
.150 IN - .185 IN 3.81 MM - 4.70 MM	XX	.00002	BLANK #00		155.00	193.47	241.32
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	130.00	174.12	217.18
	Y	.00007	4.8 MM	23.8 MM	125.00	154.77	193.05
	Z	.00010			120.00	154.77	193.05
.185 IN - .230 IN 4.70 MM - 5.84 MM	XX	.00002	BLANK #0		131.61	184.25	234.28
	X	.00004	$\frac{3}{8}$ IN	$\frac{15}{16}$ IN	118.45	165.83	210.86
	Y	.00007	9.5 MM	23.8 MM	105.28	147.40	187.43
	Z	.00010			105.28	147.40	187.43
.230 IN - .365 IN 5.84 MM - 9.27 MM	XX	.00002	BLANK #1		125.34	180.85	227.46
	X	.00004	$\frac{5}{16}$ IN	1 IN	112.81	162.75	204.71
	Y	.00007	14.3 MM	28.6 MM	110.27	140.38	181.97
	Z	.00010			110.27	140.38	181.97
.365 IN - .510 IN 9.27 MM - 12.95 MM	XX	.00002	BLANK #2		119.37	167.12	220.84
	X	.00004	$\frac{3}{4}$ IN	1 3/8 IN	107.44	150.41	198.76
	Y	.00007	19.1 MM	34.9 MM	95.50	133.70	176.67
	Z	.00010			95.50	133.70	176.67
.510 IN - .825 IN 12.95 MM - 20.95 MM	XX	.00002	BLANK # 3		125.34	175.48	287.09
	X	.00004	$\frac{15}{16}$ IN	1 1/4 IN	112.81	157.93	258.38
	Y	.00007	23.8 MM	44.4MM	100.27	140.38	229.68
	Z	.00010			100.27	140.38	229.68
.825 IN - 1.135 IN 20.95 MM - 28.83 MM	XX	.00003	BLANK # 4		131.61	184.25	373.22
	X	.00006	1 1/8 IN	2 1/8 IN	118.45	165.83	335.89
	Y	.00009	28.6 MM	54.0 MM	105.28	147.40	298.57
	Z	.00012			105.28	147.40	298.57

- Choice of three tolerances: Go - Unilateral minus
No Go - Unilateral plus
Master - Bilateral (split)
- Carbide rings have tungsten carbide inserts and steel jackets
- All ring gages are lapped to size and polished
- Roundness and taper of all gages will not exceed 50% of the applicable gagemakers size tolerance and are non-accumulative.

Also Available: Aluminum Ring Gage Holders —SEE PAGE 73



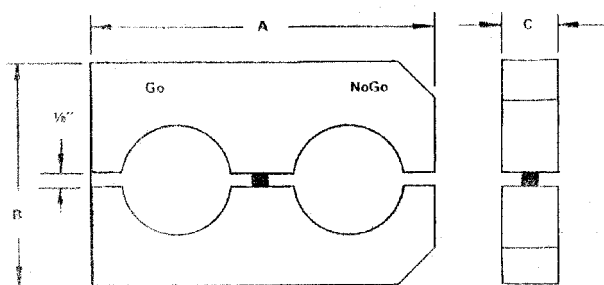
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RING GAGES

Size / Range Above To and Including	Class	Tolerance in inches	Standard A.G.D Blank size		Price Each		
			Length	O.D.	Steel	Chrome	Carbide
1.135 IN - 1.510 IN 28.83 MM - 38.35 MM	XX	.00004	BLANK # 5		164.51	211.89	503.84
	X	.00006	1 1/16 IN	2 1/2 IN	148.05	190.70	453.46
	Y	.00009	33.3MM	63.5 MM	131.61	169.51	403.08
	Z	.00012			131.61	169.51	403.08
1.510 IN - 2.010 IN 38.35 MM - 51.05 MM	XX	.00004	BLANK #6		189.19	243.68	680.19
	X	.00008	1 1/2 IN	4 IN	170.27	219.31	612.17
	Y	.00012	38.1 MM	101.6MM	151.35	194.94	544.14
	Z	.00016			151.35	194.94	544.14
2.010 IN - 2.510 IN 51.05 MM - 63.75 MM	XX	.00004	BLANK #7		223.24	304.59	884.24
	X	.00008	1 1/2 IN	4 1/2 IN	200.92	274.13	795.82
	Y	.00012	38.1 MM	101.6 MM	178.59	243.68	707.39
	Z	.00016			178.59	243.68	707.39
2.510 IN - 3.010 IN 63.75 MM - 76.45 MM	XX	.00005	BLANK #8		263.43	380.73	1015.30
	X	.00010	1 1/2 IN	5 IN	237.08	342.67	994.77
	Y	.00015	38.1 MM	127.0 MM	210.73	304.59	884.24
	Z	.00020			210.73	304.59	884.24
3.010 IN - 3.510 IN 76.45 MM - 89.15 MM	XX	.00005	#9		310.84	437.85	1384.62
	X	.00010	1 1/2 IN	5 1/2 IN	279.75	394.07	1243.47
	Y	.00015	38.1 MM	139.7 MM	248.68	350.27	1105.30
	Z	.00020			248.68	350.27	1105.30
3.510 IN - 4.010 IN 89.15 MM - 101.85 MM	XX	.00005	#10		366.79	503.52	1727.03
	X	.00010	1 1/2 IN	6 IN	330.11	453.17	1554.34
	Y	.00015	38.1 MM	161.9 MM	293.44	402.82	1381.62
	Z	.00020			293.44	402.82	1381.62

Ring Gage Holders



Black Anodized Aluminum

FOR RING BLANK NO.	A	B	C	PRICE EACH
000	2-7/8	1-3/4	3/16	44.71
00	2-7/8	1-3/4	3/16	44.71
0	2-7/8	1-3/4	3/8	44.71
1	3-1/2	2-1/4	9/16	44.71
2	4-1/4	2-1/2	3/4	44.71
3	5	2-7/8	15/16	57.71
4	5-3/4	3-1/4	1-1/8	57.71
5	6-1/2	3-5/8	1-15/16	81.86

Chrome ring gages available in sizes up to 12.260 in (311.40 mm)

Steel ring gages available in sizes up to 16.010 in (406.65 mm)

Call for pricing and delivery

Quantity discounts available on all ring gages

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EXTRA LENGTH CLASS "X" GAGES

Reversible pin gages in English and Metric up to 6" lengths. Ideal for deep and hard to reach holes or slots.

- Centerless lapped to a 5 microfinish
- Up to 6" long
- NIST Traceable
- Stabilized and heat treated to 60-62 RC
- Plus, Minus or Bilateral tolerance

Inch Size	Millimeter Size	3" Price	4" Price	5" Price	6" Price
.0100 IN - .0299 IN	.254 MM - .759 MM	129.71	177.33	323.07	418.04
.0300 IN - .0599 IN	.762 MM - 1.52 MM	69.76	95.06	173.27	232.81
.0600 IN - .2009 IN	1.52 MM - 5.10 MM	47.53	65.18	89.70	102.66
.2010 IN - .3749 IN	5.11 MM - 9.52 MM	49.98	66.39	92.00	104.20
.3750 IN - .6349 IN	9.53 MM - 16.13 MM	53.29	70.38	96.60	105.80
.6350 IN - .7500 IN	16.13 MM - 19.05 MM	53.29	72.44	104.26	114.99
.7501 IN - .8750 IN	19.05 MM - 22.23 MM	93.54	125.10	166.05	206.53
.8751 IN - 1.000 IN	22.23 MM - 40 MM	104.87	137.55	190.90	233.52

No guarantee of straightness, due to Centerless Grinding process on these products

PROGRESSIVE TRILOCK GAGES

When you need to check parts quickly, Progressive plug gages are the best choice. Both the GO and NOGO diameters are stepped on a single gage member. All members are securely attached to a Trilock handle. All handles are marked with sizes and direction of tolerance.

- Class XX, X, Y, Z
- NIST traceable
- GO, NOGO tolerances
- Tool Steel 60/62 Rockwell C

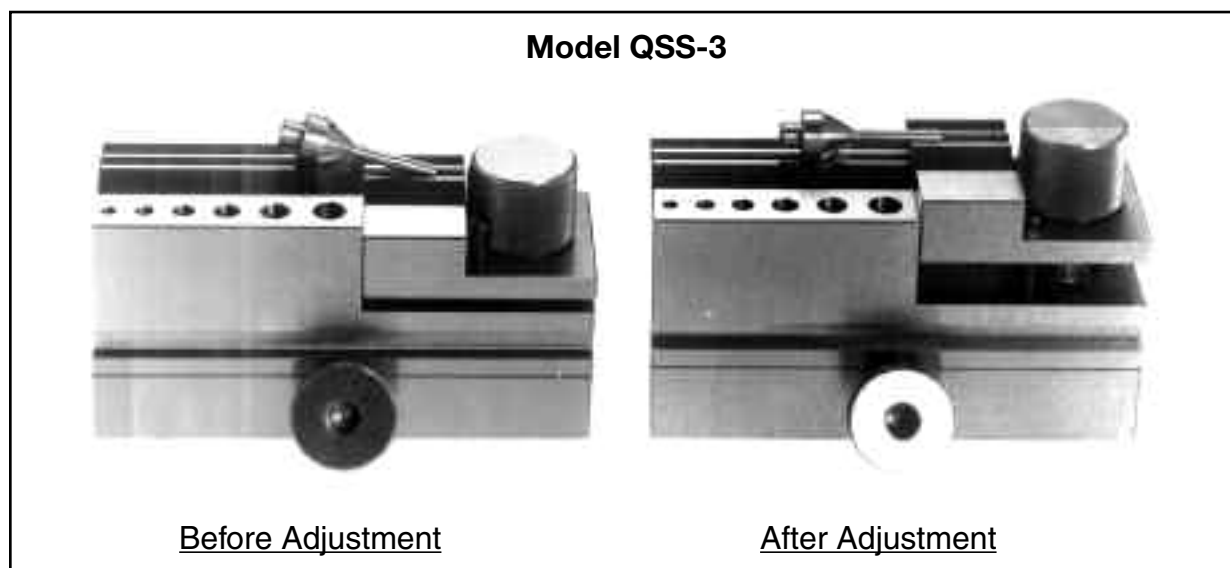
Size / Range	Class	Tolerance Inches	Member Length	GO Portion	NOGO Portion	Steel	Chrome	Handle	
								#	Price
1.5101 IN - 2.010 IN 38.35 MM - 51.05 MM	XX	.00004	2 7/8 IN 73.0 MM	1 7/8 IN 47.6 MM	7/8 IN 22.2 MM	208.56	271.13	5 1/2	18.80
	X	.00008				167.14	217.29		
	Y	.00012				146.44	190.38		
	Z	.00016				118.33	153.83		
2.0101 IN - 2.510 IN 51.05 MM - 63.75 MM	XX	.00004	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM	261.81	340.36	6	19.50
	X	.00008				211.51	274.97		
	Y	.00012				178.98	232.68		
	Z	.00016				147.91	192.29		
2.5101 IN - 3.010 IN 63.75 MM - 76.45 MM	XX	.00005	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM	284.55	369.92	7	21.00
	X	.00010				244.06	317.28		
	Y	.00015				210.04	273.06		
	Z	.00020				173.06	224.98		
3.0101 IN - 3.510 IN 76.45 MM - 89.15 MM	XX	.00005	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM	353.50	459.56	7	21.00
	X	.00010				272.16	353.81		
	Y	.00015				242.57	315.35		
	Z	.00020				202.64	263.44		
3.5101 IN - 4.010 IN 89.15 MM - 101.85 MM	XX	.00005	3 1/8 IN 79.4 MM	2 1/8 IN 54.0 MM	7/8 IN 22.2 MM	411.20	534.57	7	21.00
	X	.00010				332.80	432.65		
	Y	.00015				285.47	371.12		
	Z	.00020				239.62	311.51		
4.0101 IN - 4.510 IN 101.85 MM - 114.55 MM	XX	.00005	3 1/8 IN 79.4 MM	2 1/8 IN 54.0 MM	7/8 IN 22.2 MM	465.92	605.70	7	21.00
	X	.00010				374.22	486.49		
	Y	.00015				325.40	423.03		
	Z	.00020				267.72	348.04		

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RING GAGES

ADJUSTABLE V-BLOCK FOR COMPARATOR USE



SPECIFICATIONS:

Height:	2-1/2"
Height/ Float Capacity:	9/32
Width:	1-1/2"
Length:	4-1/4"
Weight:	2 lbs.
Material:	Carbon Steel
Finish:	Natural

Groove Dimensions:

1. .172 Wide X .078 Deep
2. .123 Wide X .054 Deep
3. Center Groove .430 Wide X .212 Deep

QSS-3

\$293.25

2-1/2" High

T-base and base lock to fit most comparator tables.

Six Holes:

1/8, 5/32, 3/16, 7/32, 1/4, 9/32

Depth of Hole: 13/16

OPTIONAL CLAMP

\$9.25

U.S. Patent #5,220,730
Granted June 22, 1993.

- QUICK ADJUST allows machinists and inspectors to quickly line up components.
 - QUICK ADJUST eliminates shimming time, and maximizes inspection time.
 - QUICK ADJUST speeds up the inspection of parts that are unbalanced or top heavy.
 - QUICK ADJUST actually encourages operators to measure because of the easy set up of components.
- RESULT:* More inspection, improved quality
- Fine and smooth adjustment with large adjusting screw.
 - 2-pins in floating V assures smooth adjustment and accuracy.
 - Can be customized to your specifications.

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