



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



**ESCHENBACH OPTIK**  
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**CONTROL COMPANY**  
Digital, Traceable, and Unique Products
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**Magnifiers**



Item	Power	Focal Distance	Lens Dia.	Diopter	Case	Brand	Item No.
Aspheric Stand Magnifier	10X	0.8 in	23 mm	40D	Chrome	Eschenbach Optik Gmbh	45PF38
Bifocal Magnifier	3X	—	3 in	—	Plastic	Dmi	36ED35
Coddington Magnifier	10X	1 in, 2.5 cm	19.8 mm	40D	Nickel Plated, Swing Away	Bausch & Lomb	3H427
Double Lens Magnifier	20X	0.5 in, 1.3 cm	12.5 mm	80D	Nickel Plated, Swing Away	Bausch & Lomb	3H429
	3.5X	3 in, 7.3 cm	1.63 in	14D	Nickel Plated, Swing Away	Bausch & Lomb	2RW29
	4X	2.5 in	38 mm	16D	Plastic	Bausch & Lomb	3G977
Folding Pocket Magnifier	4X to 9X	1.1 in, 2.5 in	23 mm	16D to 36D	Plastic	Bausch & Lomb	3G981
	5X to 20X	0.5 in, 2 in	(2) 20.3 mm, (1) 15.2 mm	20D to 80D	Plastic	Bausch & Lomb	3G983
	8X	—	21 mm	—	—	Insize	463C81
	3.5X	4 in	—	10D	Plastic	Eschenbach Optik Gmbh	3DUW1
Handheld LED Magnifier	7X	1.43 in	35 mm	28D	Plastic	Eschenbach Optik Gmbh	3DUW4
	10X	1.05 in	35 mm	38D	Plastic	Eschenbach Optik Gmbh	3DUV7
	12.5X	0.8 in	30 mm	50D	Plastic	Eschenbach Optik Gmbh	3DUV8
Handheld Magnifier	2X	19.2 cm, 7.6 in	3.5 in	5.2D	—	Bausch & Lomb	21U872
	10X	1 in, 2.5 cm	15.8 mm	40D	Nickel Plated, Swing Away	Bausch & Lomb	3H431
Hastings Triplet Magnifier	14X	0.8 in, 2 cm	12.5 mm	56D	Nickel Plated, Swing Away	Bausch & Lomb	2RPA4
	20X	0.5 in, 1.3 cm	8.3 mm	80D	Nickel Plated, Swing Away	Bausch & Lomb	3H433
Hastings Triplet Measuring Magnifier	7X	1.5 in, 3.9 cm	19.8 mm	28D	Transparent	Bausch & Lomb	3G995
Illuminated Coddington	10X	1 in, 2.5 cm	19.8 mm	40D	—	Bausch & Lomb	3G993
Illuminated Dual Magnifier	4X	—	1.75 in	—	—	Control Company	3LJK3
	2X	—	75 mm	—	—	Insize	463C83
	2X, 4X	—	120 mm	—	—	Insize	463C82
	4X	—	50 mm	—	—	Insize	463C84
	10X	—	21 mm	—	—	Insize	463C86
LED DC Magnifier Handle	Battery	—	—	—	Plastic	Eschenbach Optik Gmbh	3DUX4
LED Pocket Magnifier	3X	5 in	—	8D	Glass Fiber Reinforced Plastic	Eschenbach Optik Gmbh	3DUY3
Linen Tester	5X	1 in	23.37 mm	40D	Plastic	Eschenbach Optik Gmbh	45PF50
	8X	2 in	17.53 mm	24D	Chrome	Eschenbach Optik Gmbh	45PF45
Magnifier	2X	10 in	3 in	4D	Plastic	Westward	11W399
Magnifier Pocket Scope	40x	—	9 mm	—	Aluminum	Westward	6XY17
Magnifying Head	12.5X	0.8 in	1.18 in	50D	Plastic	Eschenbach Optik Gmbh	3DUX1
Metal Precision Folding Magnifier	12X	0.8 in	23 mm	48D	Chrome	Eschenbach Optik Gmbh	45PF28
Packette Magnifier	5X	2 in, 5.1 cm	37 mm	20D	Plastic	Bausch & Lomb	3G985
Telescoping Magnifier	3X	10 cm	2 in	10D	—	Westward	1VUA4



**STABILA**
**Mitutoyo**
**INSIZE**
**GENERAL**
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**Digital Protractors**

These protractors resemble digital levels and are commonly used in metalworking, machining, and light and heavy manufacturing applications.

Range	Res.	Accuracy	Functions	IP Rating	SPC Output	Brand	Item No.
-360° to 360°	0.1°	+/-0.05°	4-Modes (°, %, mm/m, inch/ft), Automatic Shut Off, Hold Function, Reference Function	IP65	Yes	Stabila	55JK53
	0.01° (0° to 9.99°), 0.1° (10° to 90°)	+/-0.05°	Hold Function,	—	Yes	Mitutoyo	1ZRVA
-360° to 360°, 90° x 4	0.05°	+/-0.05°	Absolute, Automatic Power Off., Buzzer Alarm, Hold Function, Incremental Measurement, Sea Level is Permanently Set Inside The Chip, Unit (Degrees, %, mm, m), Zero Setting is Not Needed When Batteries are Replaced	IP67	No	Insize	463C87
	0.1°	+/-0.1°	Hold Function	—	No	Mitutoyo	4LB15
	0.1°	+/-0.1°	Hold Function	Not Rated	No	Westward	2YNJ1
	0.1°	+/-0.05°	4-Modes (°, %, mm/m, Inch/ft), Automatic Shut Off, Hold Function	IP65	Yes	Stabila	55JK54
	—	+/-0.20°	Hold Function, Level,	Not Rated	No	Westward	2YNK6
0° to 180°	0.05°	+/-0.1°	Absolute and Relative Measurements, Can Invert Display, Hold Function,	—	—	General	8NC28



**GENERAL**
**WESTWARD**
**Mitutoyo**

**Manual-Reading Starrett Protractors**

0° to 180° Range

Blade Length	Accuracy	Brand	Item No.
<b>Rectangular Stainless Steel</b>			
6 in	—	General	39EP33
<b>Steel</b>			
6 in	—	Westward	4KU93
	—	Mitutoyo	1ARY7
	+/-0.5°	Starrett	2ZUY2
<b>Semi-Circular Stainless Steel</b>			
4 5/64 in	+/-0.3°	Insize	463C15
5 29/32 in	+/-0.3°	Insize	463C11
7 29/32 in	+/-0.3°	Insize	463C12
11 13/16 in	+/-0.3°	Insize	463C13
<b>Steel</b>			
6 in	—	Mitutoyo	1ARY6
	+/-0.5°	Starrett	2ZUY3
19 5/64 in	+/-0.3°	Insize	463C14

**INSIZE**
**Starrett**
**WESTWARD**

**Machinist Precision Steel Squares and Sets**

90° Angle

Outside Dimensions	Squareness - Inch	With Wide Base	Brand	Item No.
<b>Squares</b>				
<b>Stainless Steel</b>				
3 in x 2 in	0.0002 in (Inside), 0.0003 in (Outside)	No	Insize	463T74
7 29/32 in x 5 5/64 in	0.0003 in (Inside), 0.0004 in (Outside)	No	Insize	463T77
<b>Steel</b>				
2 3/32 in x 1 3/32 in	0.001 in	No	Starrett	3AER1
3 in x 2 in	0.0010 in (Inside), 0.0011 in (Outside)	Yes	Insize	463G45
3 3/32 in x 2 3/32 in	0.001 in	No	Starrett	3AER2
5 29/32 in x 3 29/32 in	0.001 in	No	Starrett	3AER3
6 in x 4 5/16 in	0.0002 in	No	Starrett	2ZUT8
6 in x 4 in	0.0013 in (Inside), 0.0014 in (Outside)	Yes	Insize	463G37
8 in x 5 in	0.0015 in (Inside), 0.0016 in (Outside)	Yes	Insize	463G38
10 in x 6 in	0.0017 in (Inside), 0.0018 in (Outside)	Yes	Insize	463G39
12 in x 7 in	0.0002 in	No	Starrett	2ZUT9
12 in x 8 in	0.0019 in (Inside), 0.0020 in (Outside)	Yes	Insize	463G40
12 1/2 in x 6 3/8 in	0.001 in	No	Starrett	3AER4
16 in x 10 in	0.0022 in (Inside), 0.0024 in (Outside)	Yes	Insize	463G41
24 in x 14 in	0.0030 in (Inside), 0.0032 in (Outside)	Yes	Insize	463G44



6XY11

No. of Pieces	Outside Dimensions	Squareness - Inch	Case Type	Brand	Item No.
<b>Sets</b>					
<b>Carbon Tool Steel</b>					
4	2 in x 1 1/2 in; 3 in x 2 1/2 in; 4 in x 3 in; 6 in x 4 in	0.0006 in to 0.0008 in	—	Westward	6XY11
4	4 in x 3 in; 6 in x 4 in; 9 in x 6 in; 12 in x 8 in	0.0006 in to 0.0012 in	—	Westward	6XY13
<b>Steel</b>					
4	2 3/32 in x 1 3/32 in; 3 3/32 in x 2 3/32 in; 5 29/32 in x 3 29/32 in; 12 1/2 in x 6 3/8 in	0.001 in	Plastic	Starrett	2ZUU1