

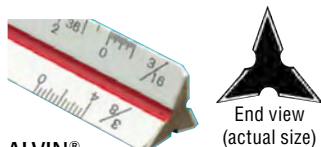
Triangular Scale Selection Chart

Hardwood	Bamboo	High Impact Plastic	Impact Plastic	Black Plastic	FAIRGATE® Aluminum	ALUMICOLOR™ Mini Aluminum	ALVIN® Aluminum	ALUMICOLOR™ Black Aluminum	Hollow Aluminum	Solid Core Aluminum	Length	Graduations
Architect Scales												
40MTS							30ATS				4"	All architect scales have the following graduations unless otherwise noted: /32, 3/16, 1/8, 1/4, 1/2, 1, 3/8, 3/4, 1½, 3" to the foot; one edge graduated to 16ths
		610A			TA6	3010-1 3010-2 3010-4 3010-5 3010-9					6" 6" 6" 6" 6"	
	240B	110P 110PC* 110PY 240P	270P	240BP	TA12		2200M-1	98/ARC	3030-1 3030-2 3030-9	3050-1	12" 12" 12" 12"	
					TA18		2200M-118				18"	
					TA24		2200M-124				24"	
					TA36						36"	With left to right reading calibrations
Engineer Scales												
41MTS							31ATS				4"	All engineer scales have the following graduations unless otherwise noted: 10, 20, 30, 40, 50, 60 parts to the inch
		610E			TE6	3210-1 3210-2 3210-4 3210-5 3210-9					6" 6" 6" 6" 6"	
	241B	111P 111PC* 111PY 241P	271P	241BP	TE12		2200M-2	98/ENG	3230-1 3230-2 3230-9	3250-1	12" 12" 12" 12"	
	245B										12"	
					TE18				3240-1		18"	
					TE24						24"	241B is double-numbered
												10, 20, 25, 30, 40, 50 parts to the inch
Mechanical Drafting Scales (Architect/Engineer)												
		110PX 110PXY 244P	270PX								12" 12" 12"	1/8, 1/4, 1/2, 1" to the foot; 1/4, 3/8, 1/2, 3/4 size; 50ths and 16ths
Combination Scales (English/Metric)												
						3610-1 3610-2 3610-4 3610-5					6" 6" 6" 6"	1/8 and 1/4 = 1 foot; 16ths full size, 10 and 50 parts to the inch 1:100 and 1:500 metric
	119PC										12"	1:100 metric, 10 and 50 parts to the inch, 1/4, 1/2 size; 50ths and 32nds full size
	120PC										12"	1:50, 1:100 metric, 50ths and 16ths full size, 1/4, 1/2 size, 1/8 and 1/4 = 1 foot
Metric Scales												
		744PM									30cm (12")	1:2.5, 1:5, 1:10, 1:20, 1:50, 1:100
		117PM 247P									30cm (12") 30cm (12")	1:20, 1:33⅓, 1:40, 1:50, 1:80, 1:100
		748PM									30cm (12")	1:20, 1:25, 1:33⅓, 1:50, 1:75, 1:100
		740PM			TM12		2200M-3				30cm (12")	1:20, 1:25, 1:50, 1:75, 1:100, 1:125
		121PM 742PM				3410-1	2200M-5		3430-1		30cm (12") 30cm (12") 15cm (6")	1:100, 1:200, 1:250, 1:300, 1:400, 1:500
47MTS		743PM					37ATS				30cm (12") 10cm (4")	1:100, 1:200, 1:300, 1:400, 1:500, 1:600
							2200M-6				30cm (12")	1:500, 1:1000, 1:1250, 1:1500, 1:2000, 1:2500

* Blister-carded

For Triangular Scale Displays, see page 58.

Triangular Scales – Please refer to scale selection chart on previous page for individual item numbers and graduations



End view
(actual size)

ALVIN® 40 Series 4" Mini Hardwood Triangular Scales

Professional-quality scales with a solid hardwood core, white, high-impact plastic laminated faces and tapered edges. Machine-engraved graduations and color-coded furrows. Supplied in plastic sleeve.

40MTS Series	BQ 1
SRP \$17.95 ea	



ALVIN® 240B Series Bamboo Professional Triangular Scales

Professional-quality scales with a bamboo core, white high-impact plastic laminated faces and tapered edges. Machine engraved divisions and color-coded furrows. Supplied in hard plastic case.

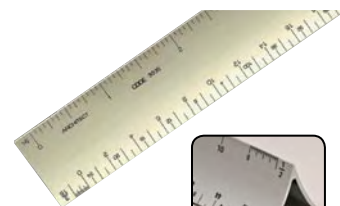
240B Series	BQ 1
SRP \$32.00 ea	



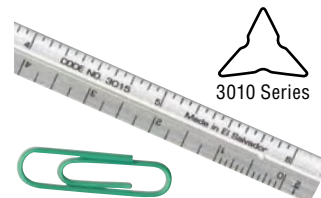
ALVIN® 740PM Series Metric Plastic Triangular Scales

Professional-quality metric scales made from high-impact plastic with white, non-reflecting, matte faces and tapered edges. Hot-stamped graduations and color-coded furrows. Supplied in hard plastic case.

740PM Series	BQ 1
SRP \$17.95 ea	



3030 Series



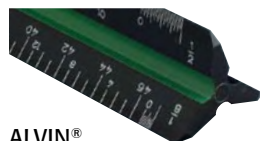
3010 Series



ALVIN® 98 Series Black Aluminum Triangular Scales

High-quality, black anodized aluminum scales have a large profile, hollow core, and tapered edges. Printed white graduations and color inlaid furrows. Supplied in hard plastic case.

No.	Description	BQ	SRP
98/ARC	Architect		
98/ENG	Engineer		
SRP \$24.00 ea		BQ 1	



ALVIN® 240BP Series Black Plastic Triangular Scales

Professional-quality scales made from high-impact plastic with black, non-reflecting, matte faces and tapered edges. Machine-engraved white graduations and color-coded furrows. Supplied in hard plastic case.

No.	Description	BQ	SRP
240BP	Architect		
241BP	Engineer		
SRP \$15.50 ea		BQ 1	



ALVIN® 2200M Series Solid Aluminum Triangular Scales

High-quality anodized aluminum scales have a large profile, solid core, and tapered edges. Printed black graduations, available in English and metric. Supplied in hard plastic case.

No.	BQ	SRP
2200M Series	1	\$20.95 ea
<i>Except</i>		
2200M-118	1	27.95 ea
2200M-124	1	40.50 ea



ALVIN® 110 Series Student/ Vocational Triangular Scales

These 12" triangular scales are ideal for scholastic and vocational use. Satin finish, high-impact plastic with tapered edges. Sharp, easy-to-read graduations resist wear. Available in white or eye-saver yellow. Architect, engineer, and mechanical draftsman graduations. English and metric. Items 110PC and 111PC are blister-carded.

No.	BQ	SRP
110P - 121PM Series	1	\$4.50 ea
<i>Except</i>		
110PC, 111PC	1	4.75 ea
110PXY, 110PY, 111PY	1	9.95 ea
120PC	1	8.95 ea



ALVIN® 240P Series Plastic Professional Triangular Scales

Professional-quality scales made from high-impact plastic with white, non-reflecting, matte faces and tapered edges. Machine-engraved graduations and color-coded furrows. Supplied in hard plastic case.

240P Series	BQ 1
SRP \$15.50 ea	



ALVIN® 4" Mini Aluminum Triangular Scales

Professional pocket scale constructed of solid aluminum for light weight and durability. Features tapered edges and color-coded furrows. Comes in vinyl sheath.

No.	Description	BQ	SRP
30ATS	Architect		
31ATS	Engineer		
37ATS	Metric		
SRP \$9.75 ea		BQ 1	



ALVIN® 270P Series Boxwood-Color Plastic Triangular Scales

High-quality scales made from high-impact, boxwood-color plastic with tapered edges. Hot foil-stamped graduations and color-coded furrows. Supplied in plastic sleeve.

270P Series	BQ 1
SRP \$15.25 ea	



ALVIN® Scale Guard

Fits most standard triangular scales. A perfect handle for lifting and maneuvering scales. Assorted colors for easy scale identification. Maintains scale orientation so graduations always face down.

No.	Description	BQ	SRP
669DZ	Bagged, 12-pack	1	\$9.00 dz
669BC	Blister-carded, 2-pack	1	1.45 pk



ALVIN® 600 Series 6" Plastic Triangular Scales

High-quality scales made from high-impact plastic with white, non-reflecting, matte faces and tapered edges. Printed graduations and color-coded furrows. Sold individually or as a set of two.

No.	Description	BQ	SRP
P600C	Set of two	1	\$10.95 st
610A	Architect	1	5.95 ea
610E	Engineer	1	5.95 ea

ALUMICOLOR™ 3000 Series Colored Aluminum Triangular Scales

Lightweight, professional-quality scales are made from color-anodized aluminum. 12" and 18" scales have hollow core and 6" minis are solid core. Both styles have printed graduations on ultra-smooth, mark-resistant surface. Available in silver (-1 suffix), gold (-2) and black (-9). English and metric. Supplied in hard plastic case.

No.	Description	BQ	SRP
6" scales			
3010 Series	Architect		
3210 Series	Engineer		
3410 Series	Metric		
3610 Series	Combo, inch/metric		
SRP \$6.25 ea		BQ 1	

12" scales			
3030 Series	Architect		
3230 Series	Engineer		
3430 Series	Metric		
SRP \$9.95 ea		BQ 1	

18" scales			
3240-1	Engineer		
SRP \$18.50 ea		BQ 1	



FAIRGATE® T Series Solid Aluminum Triangular Scales

Rugged, professional-quality scales are made from anodized aluminum with a solid core. Printed black graduations on non-glare finish and color-coded furrows. Available in English and metric. Sold individually, shrink-wrapped.

TA series = architect			
TE series = engineer			
Description	BQ	SRP	
6"	1	\$12.15 ea	
12"	1	15.50 ea	
18"	1	22.75 ea	
24"	1	24.25 ea	
36", architect only	1	36.60 ea	
30cm/metric	1	15.50 ea	

ALVIN® Professional 12" Triangular Scales Display

Size: 16¼" w x 7¼" w x 6¼" d
Contents: 36 scales: 240P, 241P, 244P, 247P

No. 6222D
SRP \$558.00 BQ 1

ALVIN® Student 12" Triangular Scales Display

Size: 16¼" w x 7¼" w x 6¼" d
Contents: 66 scales: 110P, 110PX, 111P, 117PM

No. 7222D
SRP \$297.00 BQ 1

ALUMICOLOR™ Mini 6" Triangular Scales Display

Size: 8½" w x 3" diameter
Contents: 28 scales in five colors

No. A300D
SRP \$156.95 BQ 1

ALUMICOLOR™ Series L2R™ Aluminum Scale
Architect scale has ultra-smooth edges and a slim profile. Left-to-right reading printed graduations won't rub off. 12" divided: 1/8, 1/4, 1/16, and 1/32 to the foot, 4-bevel, flat.

No. 3136-1
SRP \$13.45 ea BQ 1



ALVIN® Series 260 White Plastic Flat Scales

Four-bevel white scales made of high-impact plastic. Printed graduations. Supplied in vinyl sheath.

No.	Description	BQ	SRP
260P ♦	12" divided: 1/8", 1/4", 1/2", 1", 3/8", 3/4", 1½", and 3" to the foot	1	\$19.95 ea
261P ●	12" divided, not double-numbered: 10, 30, 40, and 50 parts to the inch	1	19.95 ea
266P ♦	6" divided: 1/8", 1/4", 1/2", 1", 1¾", 1½", and 3" to the foot	1	14.50 ea
267P ●	6" divided, double numbered: 10, 30, 40, and 50 parts to the inch	1	14.50 ea
269P ●	6" divided, double numbered: 10, 20, 30, 40, 50, and 60 parts to the inch	1	14.50 ea

KEY: ♦ Architect ● Engineer

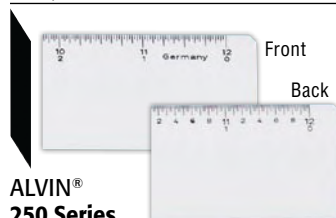


ALVIN® Series 280 White Plastic Flat Scales

12" two-bevel white architect scales made of high-impact plastic. Engine-divided graduations. Supplied in vinyl pocket sheath.

No.	Description
280P	1/8" and 1/4" to the foot
280XP	In 16ths and 32nds to represent 200' on the 16th scale; in 16ths and 32nds to represent 400' on the 32nd scale; 1/16" and 1/32" to the foot

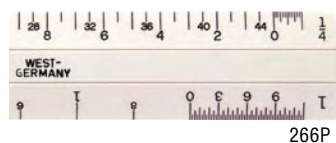
SRP \$40.25 ea BQ 1



ALVIN® 250 Series Mechanical Draftsmen White Plastic Flat Scale

12" opposite-bevel white scale made of high-impact plastic. Engine-divided graduations. Double-numbered, full size, inches reading to 32nds. Full size, inches reading to 50ths. Supplied in vinyl sheath.

No. 258P
SRP \$25.95 ea BQ 1



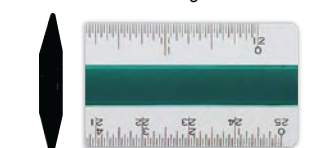
ALVIN® Series 310 White Plastic Flat Pocket Scales

6" four-bevel white scales made of high-impact lightweight plastic. Printed graduations. Supplied in vinyl sheath.

No.	Graduations
310A ♦	1/8, 1/4, 1/2, 1, 3/8, 3/4, 1½, and 3" to the foot
311E ●	10 and 50, 30, and 40 parts to the inch

SRP \$6.50 ea BQ 1

KEY: ♦ Architect ● Engineer



ALVIN® 764 Series English/Metric Mechanical Draftsmen Flat Scale

12"/30cm four-bevel white scale made of high impact plastic. All graduations are double numbered. Full size – inches to 50ths and 32nds. Half size – inches to 16ths. Metric to 1mm. Supplied in vinyl sheath.

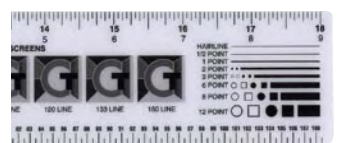
No. 764PM
SRP \$14.50 ea BQ 1



C-THRU® Proportional Scales

Provides a number of times of reduction, as well as percentage of enlargement or reduction for photos, artwork, and layouts. Fractions are printed below the inch in a second color. Consists of two circular laminated white vinyl discs.

No.	Diameter	BQ	SRP
PS69	5"	1	\$4.50 ea
PS79	6"	1	5.95 ea
PS80	8"	1	6.95 ea



C-THRU® Graphic Arts Ruler

Laminated, 2" x 18" ruler, with calibrations in inches, picas, and agate. Also includes proofreader symbols, printers' rules, hairline to 12 point, ten percentage screens ranging from 10% to solid, halftone screens, 12-pitch standard and 10-pitch elite typewriter character counters, and a simplified copy casting system.

No. GA86
SRP \$3.95 ea BQ 1



TRUE ANGLE® Adjustable Protractor Ruler

Define, measure, make, lock, and transfer any angle in seconds. Just rotate the blades and read the dial. This precision tool features a tolerance of 5/1000ths of an inch and a patented, 360° fully adjustable protractor/bevel square. Lifetime warranty.

No.	Description	BQ	SRP
Q106	7", pocket size	1	\$9.29 ea
Q112	12", folder size	1	14.99 ea
Q118	18", desk size	1	19.59 ea
Q123	23", shop size	1	25.29 ea
Q199	4-pack, 1 of each size	1	60.59 pk



TRUE ANGLE® Attachable Dial

Specially designed 4" dial has larger numbers for easier reading and larger diameter for greater accuracy. Easily attaches to the True Angle tool. Great as a layout tool for sketching, drafting, angle transfer, pattern design, etc.

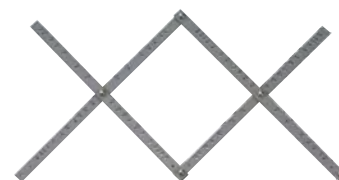
No. Q104
SRP \$4.65 ea BQ 1



ALUMICOLOR™ 6" Drafting Fan

A convenient all-in-one tool made from aluminum that has standard architect, engineer, and metric scales. Eight blades of aluminum sheet riveted together.

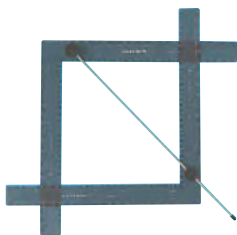
No. 3699
SRP \$17.45 ea BQ 1



ALVIN® Wood Pantographs

Create enlarged or reduced drawings up to 10x scale. Features arms made from seasoned hardwood and chromed steel hardware and components. Includes table clamp and four spare leads. Not designed for 1:1 ratio. 1/box.

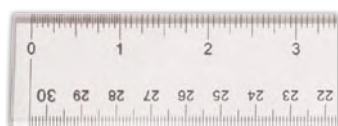
No.	Description	BQ	SRP
PA305	18", 20 ratios	1	\$30.00 ea
PA306	21", 25 ratios	1	33.00 ea
PA308	24", 30 ratios	1	40.00 ea



SCALEOGRAPH Measuring Instrument

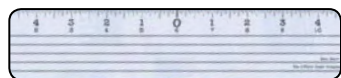
Time-saving, easy-to-use, precision plastic mechanical instrument that takes the guesswork out of scaling and cropping photographs, odd shapes, or drawings. Precise white scales on the arms give easy-to-read measurements. Scaled in picas and inches. 12" x 12".

No. SG330
SRP \$34.95 ea BQ 1



**ALVIN®
12" Ruler**
Clear plastic scaled 1/16" on one edge and metric on the other edge. Plumb line on each edge. Scale width is 1 1/4".

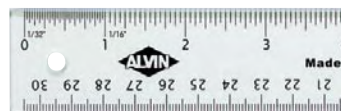
No. CP212
SRP \$4.50 ea BQ 1



DÉJÀ VIEWS® Zero Hero™

This clear zero centering ruler includes stitch and eyelet spacing holes, as well as guides for perfect placement of journaling, parallel lines, and corners. Creates beautiful, symmetrical pages.

No.	Size	BQ	SRP
ZHCR-12	12"	1	\$3.49 ea
ZHCR-18	18"	1	4.99 ea



ALVIN® Rulers

Scratch-resistant, super-clear acrylic with raised edge to prevent smearing. Scaled 1/16" on one edge, metric on opposite edge, blank spaces at ends for easier measuring, plumb line at each end.

No.	Size	BQ	SRP
T40-12	12"	1	\$2.75 ea
T40-18	18"	1	3.50 ea



HELIX® 12" Caddy Ruler Set

Ruler holds a pencil, sharpener, and eraser (all included). Extra slot for holding an additional pencil or pen.

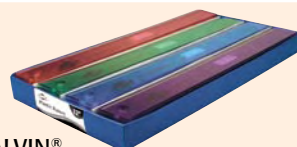
No. H12291
SRP \$3.49 st BQ 1



ALVIN® 12" Plastic Ruler

Transparent, shatter-resistant classroom ruler in assorted colors, no choice. 1 1/2" wide.

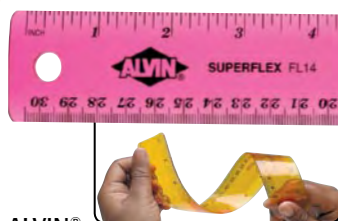
No. FL02
SRP \$1.99 ea BQ 1



ALVIN® 12" Plastic Rulers Display

Size: 5" w x 1 1/4" w x 12 1/2" D
Contents: 36 assorted rulers

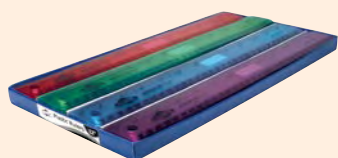
No. FL02D
SRP \$60.65 BQ 1



ALVIN® 12" Plastic Superflex Ruler

This super pliable ruler is virtually indestructible. It can be twisted or bent and always returns to its original flat position. Ideal for measuring curved surfaces. Graduated in 16ths and mm. Assorted transparent colors, no choice.

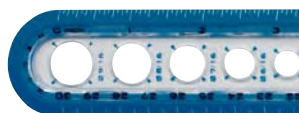
No. FL14
SRP \$2.00 ea BQ 1



ALVIN® 12" Plastic Superflex Rulers Display

Size: 6 1/2" w x 5/8" w x 12 3/4" d
Contents: 28 assorted rulers

No. FL14D
SRP \$47.99 BQ 1



HELIX® 12" Circle Ruler

Draw small circles easily by using the stencils. Larger circles are made by using the holes and rotating the ruler around the center point. Assorted colors.

No. H36001
SRP \$1.99 ea BQ 1



ALVIN® 12" Plastic Ruler

Perfect for home, school, or office. Fluorescent color makes it easy to locate. English/metric graduations. 1 1/4" wide. Assorted colors, no choice.

No. RT12
SRP \$1.69 ea BQ 1



ALVIN® 12" Fluorescent Plastic Rulers Display

Size: 5" w x 1 1/4" w x 12 1/4" d
Contents: 48 assorted rulers

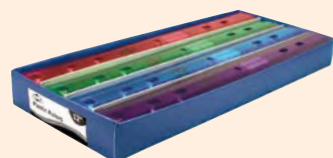
No. RT12D
SRP \$81.20 BQ 1



ALVIN® 12" Plastic 3-Ring Binder Ruler

Transparent, shatter-resistant classroom ruler in assorted colors, no choice. Fits in 3-ring binders.

No. FL01
SRP \$1.15 ea BQ 1



ALVIN® 12" Plastic 3-Ring Binder Rulers Display

Size: 7 1/2" w x 1 1/4" w x 12 1/2" d
Contents: 48 assorted rulers

No. FL01D
SRP \$48.00 BQ 1



HELIX® 12" Conversion Ruler

Unique design incorporates center conversion scale from metric to English and English to metric.

No. H37420
SRP \$1.49 ea BQ 1



C-THRU® 12" Co-Ed Plastic Ruler

1" wide with 1/16" markings on one edge and metric scale on the other.

No. 36
SRP \$0.95 ea BQ 1



C-THRU® 18" Pica Beveled Ruler

Marked with agate lines and inch graduations. Ideal for graphic arts use. 2" wide.

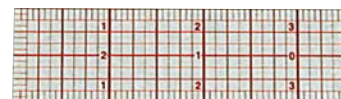
No. B90
SRP \$3.95 ea BQ 1



C-THRU® 24" English/Metric Ruler

Transparent ruler calibrated in 16ths to the inch with 8ths graph feature on one side and millimeters on the other. Each centimeter line is extended to the inch scale offering a comparison between English and metric scales. Zero centering English scale. 2" wide.

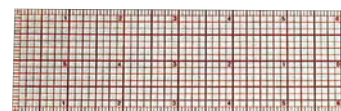
No. B97
SRP \$5.95 ea BQ 1



C-THRU® Standard Beveled Rulers

1" wide graph rulers, 1/16" calibrated with a beveled edge for ink ruling.

No.	Size	BQ	SRP
B50	6"	1	\$1.65 ea
B60	12"	1	2.00 ea



C-THRU® Beveled Graph Rulers

2" wide graph rulers with 1/16" calibration and beveled edge.

No.	Size	BQ	SRP
B70	12"	1	\$2.90 ea
B85	18"	1	3.95 ea



C-THRU® 13 3/4" Typesetting and Leading Gauge

Transparent ruler, laminated for permanence. Includes scales in picas, point sizes, and 1/16", plus a leading gauge. 3" wide.

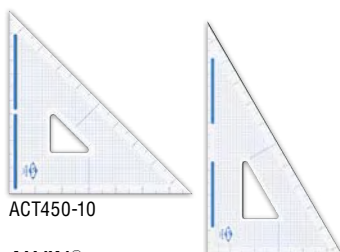
No. GA96
SRP \$4.25 ea BQ 1



ALVIN® Cutting Edge Rulers

Durable clear plastic features stainless steel cutting edge. Printed grid includes inch markings and centering lines. Ideal for both right and left-handed users. No-slip strips on one side for a stay-put grip, flip over for easy sliding.

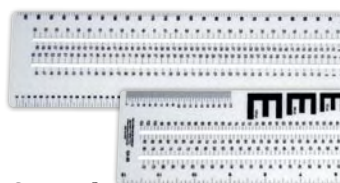
No.	Size	BQ	SRP
ACR12	12"	1	\$9.00 ea
ACR20	20"	1	12.25 ea



ALVIN® Cutting Edge Triangles

Durable clear acrylic features inset stainless steel cutting edge on one side. Printed grid includes inch markings and centering lines ideal for both right- and left-handed users. No-slip strips on one side for a stay-put grip, flip over for easy sliding.

No.	Size	BQ	SRP
30°/60°			
ACT360-10	10"	1	\$14.25 ea
ACT360-14	14"	1	15.75 ea
45°/90°			
ACT450-10	10"	1	12.25 ea
ACT450-14	14"	1	14.25 ea



C-THRU® 12" Standard and Pocket Type Gauge and Specifier

Made of durable opaque plastic with rulers and scales printed on two sides. Included are eight point sizes, agate, and E-scale, 10 line rules, pica and inch scale. 2 3/4" wide.

No. GA88
SRP \$7.50 ea BQ 1



C-THRU® 12" AccuSpec II Transparent Type Gauge and Specifier Set

Designed for the professional graphic artist. Includes E-scale, inch, pica, and metric scales, point size gauge, rules, open and solid bullets, and squares. Type gauges in 6 through 13 and 15 point sizes. Set of two scales are wrapped in protective folder and can be stored in the included resealable clear plastic bag. 4 3/8" wide.

No. AS2
SRP \$9.95 st BQ 1



ALVIN® Truflex Flexible Curves

Easily-shaped lead core construction firmly holds any curve for accurate drawings. Graduated in both inch and metric. Inch graduations in 16ths and 32nds, metric graduations in mm and cm. Convenient inking edges for pen and marker use. Also includes flat edges on both sides for pencil drawing. Used for quilting and pattern making.

This item is not available for shipment INTO CA. Please order sizes from A1044 series.

No.	Description	BQ	SRP
1043-16Y	16", yellow	1	\$9.50 ea
1043-24Y	24", yellow	1	15.95 ea



ALVIN® Lightweight Truflex II Flexible Curves

Lightweight aluminum core is easy to shape and holds any curve firmly for accurate drawings. Graduated in both English and metric. Inch graduations in 16ths and 32nds are color coded black for quick identification. Metric graduations in mm and cm are color coded red. Convenient inking edges for pen and marker use and flat edges on both sides for pencil drawing. Lead and phthalate free. Blister-carded.

No.	Description	BQ	SRP
A1044-12	12", white	1	\$7.75 ea
A1044-16	16", white	1	9.75 ea
A1044-24	24", white	1	15.95 ea
A1044-32	32", white	1	18.95 ea
A1044-40	40", white	1	20.75 ea



C-THRU® 6" Protractor Rulers

Combination protractor/scale/ruler for fast preliminary layouts. Graduations designed for civil engineers, surveyors, and general use.

No.	Scale Graduations	BQ
W37	10 and 50 parts to the inch	
W38	10 and 20 parts to the inch	
W39	20 and 40 parts to the inch	
SRP \$2.50 ea		BQ 1



LANCE® 18" Transparent Rulers

Transparent designer graph ruler. Graduations in 1/16". 2" wide. Red print.

No. M85R
SRP \$5.20 ea BQ 1



C-THRU® 12" Folding Ruler

Unique ruler folds compactly to 6" and comes in a carry pouch for easy storage and portability. It opens to a full 12" and features English and metric calibrations.

No. FOL30
SRP \$2.49 ea BQ 1



ALVIN® 12" Wood Ruler

Beechwood ruler with a natural polished finish. Scaled in centimeters and inches. Inch scale has 16ths and 32nds in first and last inch. Supplied in sheath.

No. R212
SRP \$4.00 ea BQ 1



LANCE® 8 1/2" Lightweight Shears

Stainless steel dressmaker's shears are finely honed and able to easily cut through six layers of silk. Blades can easily be adjusted for customized comfort.

No. LLS
SRP \$14.89 ea BQ 1



LANCE® Handsewing Needles

The most popular sewing needle used by dressmakers and tailors. Carefully crafted of carbon steel and fully nickel-plated, each needle is precisely drawn to an exact diameter. 25-pack.

No.	Description	BQ	SRP
SH-3-9	Assorted sharps, #3-#9	1	\$3.49 pk
SH-7	Sharps, #7	1	5.75 pk



LANCE® Dressmaker Pins

Made in Europe of nickel-plated carbon steel. Used for pinning up clothing during alterations. Large heads for handling comfort. Points are buffed for easy insertion into cloth. 8 oz. boxes.

No.	Description	BQ	SRP
DMP116	11 1/16" length	1	\$10.39 bx
DMP114	1 1/4" length	1	9.79 bx



LANCE® Steel T-Pins

Nickel-plated steel T-pins with snag-resistant T-head. Used by professionals, hobbyists, and textile workers in a variety of applications.

No.	Length/Dia.	BQ	SRP
8 oz. boxes			
X16T-05	1" x .030"	1	\$34.00 bx
X20T-05	1 1/4" x .0335"	1	28.00 bx
X24T-05	1 1/2" x .0455"	1	17.25 bx
X28T-05	1 3/4" x .0455"	1	17.25 bx
X32T-05	2" x .0455"	1	17.25 bx

100/box			
16T-100	1" x .030"	1	3.29 bx
20T-100	1 1/4" x .0335"	1	3.39 bx
24T-100	1 1/2" x .0455"	1	4.59 bx
28T-100	1 3/4" x .0455"	1	4.59 bx
32T-100	2" x .0455"	1	4.59 bx



LANCE® 60" Tape Measure

5/8" wide tape measure for tailors. Made of strong fiberglass threads. Inches and millimeters on both sides. Assorted colors, no choice. 12-pack.

No. 100LNC
SRP \$13.25 dz BQ 1



LANCE® Colonel White Wax Tailors' Chalk

Use to make temporary marks on fabric without residue. 48/box.

No. CLN-WH
SRP \$13.35 bx BQ 1



HC-100-000



VN-100-025



VN-100-080

ZIG® Laundry Clear Markers

Non-permanent markers for fabrics are ideal for temporary marking on laundry, sewing, quilting, crafts, etc. Water-based dye markers are odorless and xylene-free.

No.	Description
HC-100-000	White, erasable by ironing
VN-100-025	Pink, 3-4 day gradual fade
VN-100-080	Purple, 10-14 day gradual fade
SRP \$2.78 ea	BQ 1



LANCE® Pattern Hook

Carry pattern papers when transporting is required. 12/box.

No. PH12
SRP \$6.89 bx BQ 1



LANCE® Pattern Notcher

Perfect for notching pattern paper. Notch dimensions are 1/4" x 11/16".

No. X45
SRP \$37.95 ea BQ 1



LUFKIN® 6' Red End Folding Ruler

Ideal for carpenters and other professional craftsmen. Constructed of boxwood, 25% thicker than competitive wood rulers, with black markings embedded in a white background protected by a clear abrasive-resistant coating. Strong lock joints eliminate end play and retain accuracy. End caps and strike plates are brass-plated. Double graduations on both edges and both sides. Graduated in feet to 1/10 and 1/100 of a foot with regular outside markings in feet and inches to 1/16".

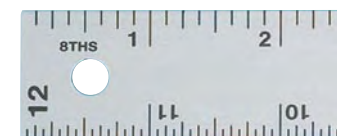
No. 1066D
SRP \$29.75 ea BQ 1



LANCE® Fashion Design Tool Kits

Each kit includes a 9"/23cm plastic french curve, 18"/46cm plastic graph ruler, 24"/60cm aluminum hip curve, 14" x 24"/35cm x 60cm aluminum L-square, 12"/32cm aluminum armhole curve, and a black portfolio case. Lightweight zippered case features sturdy flex handles and multiple compartments for pattern designs and other sewing accessories.

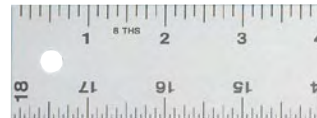
No.	Description	BQ	SRP
BCC-I	English	1	\$79.95 kt
BCC-M	Metric	1	79.95 kt



LANCE® Graduated Aluminum Rulers

Graduated on two edges of one side. Inches in 16ths and 8ths.

No.	Size	BQ	SRP
SE012	1" x 12"	1	\$3.45 ea
SE018	1 1/4" x 18"	1	5.95 ea
SE024	1 1/4" x 24"	1	7.15 ea
SE036	2" x 36"	1	11.50 ea
SE048	2" x 48"	1	18.25 ea



LANCE® Cork-Backed Aluminum Inking Rulers

Graduated on two edges of one side. Inches in 16ths and 8ths. Water-resistant cork backing raises ruler above work surface for inking.

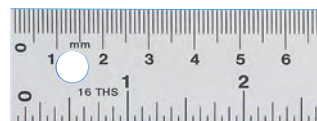
No.	Size	BQ	SRP
CB012	1" x 12"	1	\$5.00 ea
CB018	1 1/2" x 18"	1	7.30 ea
CB024	1 1/2" x 24"	1	8.65 ea
CB036	2" x 36"	1	14.25 ea
CB048	2" x 48"	1	25.75 ea



LANCE® Aluminum Center Finding Rulers

Graduated on two edges of one side. Zero point at the center of the top edge with equal incremental measurements to the left and right in 32nds of an inch. Bottom edge is standard ruler graduated in 16ths. 1 3/4" wide.

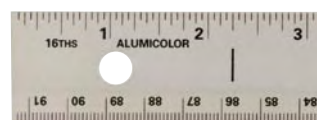
No.	Size	BQ	SRP
CF018	18"	1	\$6.60 ea
CF024	24"	1	7.90 ea
CF036	36"	1	12.60 ea
CF048	48"	1	18.25 ea



LANCE® Aluminum Centimeter/Inch Rulers

Graduated on two edges of one side. Millimeters to centimeters on top edge. Inches, in 16ths, on bottom edge.

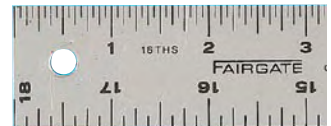
No.	Size	BQ	SRP
SE015EM	15cm	1	\$2.90 ea
SE030EM	30cm	1	3.50 ea
SE045EM	45cm	1	6.75 ea



ALUMICOLOR™ Yardstick

End-to-end calibrations. Yard marks and 16ths. Lightweight, yet sturdy. 1/16" thick and 1 1/8" wide.

No. 8008
SRP \$4.95 ea BQ 1



FAIRGATE® Cork-Back Aluminum Rulers

Cork backing prevents slipping and raises rule from work surface to eliminate ink smears and bleeding. Inches in 16th and 8ths.

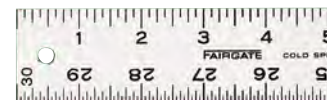
No.	Size	BQ	SRP
CR12	7/8" x 12"	1	\$5.60 ea
CR18	1 1/4" x 18"	1	7.60 ea
CR24	1 1/4" x 24"	1	9.10 ea
CR36	1 1/2" x 36"	1	13.60 ea
CR48	1 1/2" x 48"	1	24.95 ea



FAIRGATE® Eluxite Aluminum Centering Rulers

Rigid but lightweight, hard aluminum. Ideal measuring aides for dividing and gauging layouts, printing, spacing, lettering, etc. Calibrated in 32nds and 16ths. To find the center of any two- or three-dimensional object, place the rule on the object so that the same measurement appears to both left and right of the zero mark. Zero will indicate the exact center. 1 3/4" wide.

No.	Size	BQ	SRP
RC12	12"	1	\$4.65 ea
RC18	18"	1	9.00 ea
RC24	24"	1	16.50 ea
RC36	36"	1	18.00 ea
RC48	48"	1	19.25 ea



FAIRGATE® Graduated Aluminum Straightedge Rulers

Hardened aluminum construction and a stain-resistant matte finish offer a handsome yet practical design. Clearly marked black graduations in 16ths and 8ths of an inch on opposite edges.

No.	Size	BQ	SRP
1005-30	30"	1	\$10.20 ea
1005-36	36"	1	12.45 ea
1005-48	48"	1	19.20 ea
1005-60	60"	1	27.20 ea
1005-72	72"	1	36.60 ea



FAIRGATE® Aluminum English/Metric Ruler

Calibrated in 100cm/1 meter and 1/16". Ruler is 40" x 1 3/8".

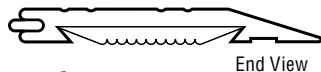
No. MS-100
SRP \$15.00 ea BQ 1



FAIRGATE® Aluminum Straightedge Rulers

Made of hardened aluminum, distinctly calibrated in black with graduations on one edge in 16ths and the opposite edge in 8ths. Featherweight and strong, these rulers are 1/32" thick and semi-rigid for flexible use. Non-rust matte finish with hanging hole at one end.

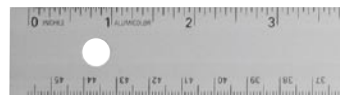
No.	Size	BQ	SRP
AR701-12	7/8" x 12"	1	\$4.50 ea
AR701-18	1 1/4" x 18"	1	6.35 ea
AR701-24	1 1/4" x 24"	1	9.20 ea



ALVIN® Aluminum Rulers

These aluminum rulers feature a stainless steel cutting edge on one side and a grooved rubber backing to prevent slipping. Graduated in English and metric.

No.	Size	BQ	SRP
AS07-12	12"	1	\$8.95 ea
AS07-18	18"	1	12.25 ea
AS07-24	24"	1	15.95 ea
AS07-39	39"	1	25.00 ea



ALUMICOLOR™ Non-Slip Straightedge

Aluminum ruler with inch and centimeter calibrations features a recessed neoprene non-slip backing which keeps the ruler positioned with just a light touch and won't break down over time like cork. Photo-anodized calibrations are a permanent part of the aluminum and will never fade or rub off over time. 18".

No. 1573-1	BQ 1
SRP \$8.25 ea	



ALVIN® Aluminum Graphic/Office Rulers

Made of tempered aluminum with a scratch-resistant anodized finish. Sharp, engraved graduations in 32nds and 16ths. Extruded full-length finger grip in center of ruler for easy pick-up, reposition, or to hold firmly down. Individually packaged.

No.	Size	BQ	SRP
GA12	12"	1	\$6.25 ea
GA18	18"	1	10.25 ea



ALUMICOLOR™ Aluminum Rulers

Precision-made of anodized silver-colored aluminum with a hard tempered blade and an ultra-smooth surface. Extremely durable and impervious to most solvents. Calibrated in inches, centimeters, picas, and points.

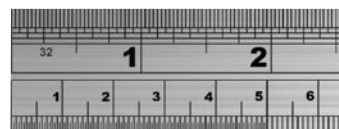
No.	Size	BQ	SRP
4240-1	12"	1	\$6.95 ea
4241-1	18"	1	8.95 ea
4242-1	24"	1	11.95 ea



GENERAL® 12" Vocational Stainless Steel Ruler

Made of flexible steel with ground edges and a hanging hole at one end. Quick-reading graduations in 16ths, 32nds, and 64ths inches, 1.0mm and 5.0mm on the front and 8ths, 16ths, 32nds, and 64ths on the back. 7/8" wide. Individually enveloped.

No. 1538	BQ 1
SRP \$11.99 ea	



Front

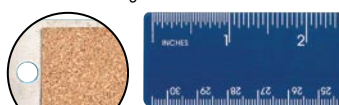
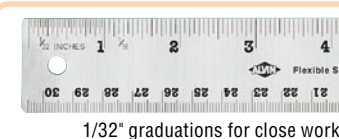


Back

LANCE® 12"/30cm Stainless Steel Centimeter/Inch Ruler

Rugged and reliable, made from high quality stainless steel, this ruler surpasses federal specifications for accuracy. Etched black, easy-to-read numbers are accurate to within 1/64th of an inch. Chart on back for easy conversion of inches to millimeters.

No. SS012M	BQ 1
SRP \$5.20 ea	



Non-skid cork backing



ALVIN® Flexible Stainless Steel Rulers

Made of finest quality stainless steel with non-skid cork backing that won't slip on glass or polished surfaces. Flexible enough to permit measuring curved surfaces. Raised edges eliminate ink blots and smearing. Permanent acid etched graduations won't wear off. Graduated to 32nds, 16ths, and metric. 1 1/4" wide.

No.	Description	BQ	SRP
R590-6	6"	1	\$2.50 ea
R590-12	12"	1	3.75 ea
R590-12BL	12", blue	1	3.75 ea
R590-12GD	12", gold	1	3.75 ea
BHSRP1	12", pink	1	3.75 ea
R590-15	15"	1	5.00 ea
R590-18	18"	1	5.50 ea
R590-24	24"	1	7.50 ea
R590-36	36"	1	12.00 ea



ALVIN® Flexible Stainless Steel Rulers Display

Size: 8"w x 19"w x 4"d
Contents: 48 assorted silver rulers

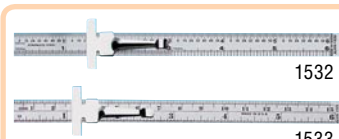
No. R590D	BQ 1
SRP \$201.00	



HELIX® 12" Stainless Steel Ring Binder Ruler

Made from tough, flexible, rustproof stainless steel with inch and metric graduations. Genuine cork backing provides a non-slip base. Fits universal ring binders.

No. H13111	BQ 1
SRP \$4.19 ea	



ALVIN® 6" Stainless Steel Pocket Rules

Etched graduations. Pocket clip doubles as a depth gauge. Convenient fraction/decimal equivalents on reverse side. 1/2" width.

No.	Description	BQ	SRP
1532	Graduated in 16ths, 32nds, and 64ths	1	\$4.00 ea
1533	Graduated in mm to 15cm and 32nds	1	4.00 ea



ALVIN® 6" Stainless Steel Pocket Rules Display

Size: 2 3/4"w x 8 1/2"w x 6"d
Contents: 24 pieces of 1532

No. 1532D	BQ 1
SRP \$96.00	



GENERAL® 6" Vocational Stainless Steel Ruler

A popular standard with quick-reading 32nds and 64ths on front and handy fraction/decimal equivalents on back. 3/4" wide. Individually carded.

No. 1506	BQ 1
SRP \$6.55 ea	

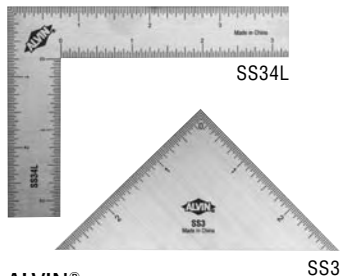


GENERAL® 12" Vocational Stainless Steel Ruler

Flexible tempered steel rules with ground edges, graduated on two sides: 10ths and 100ths on the front, 32nds and 64ths on the back. 15/32" wide. Individually enveloped.

No. 1537B	BQ 1
SRP \$15.35 ea	

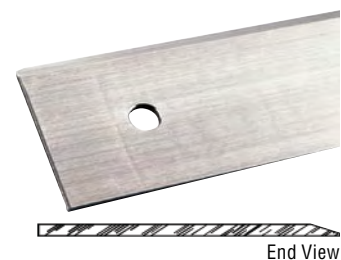
For more all-metal cutting straightedges, see Cutting Tools, page 373.



ALVIN® Stainless Steel Rulers

Made of durable stainless steel with etched inch graduations. Ideal for hobby and craft projects.

No.	Description	
SS3	3" triangle	
SS34L	3" x 4" L-square	
SRP \$8.50 ea		BQ 1



ALVIN® Tempered Stainless Steel Cutting Straightedges

2" wide x .093" thick. Features include a beveled edge and convenient hanging hole. Durable, with satin, non-glare finish. Used for cutting and ruling mats, paper, leather, glass, etc.

No.	Size	BQ	SRP
1109-18	18"	1	\$36.95 ea
1109-24	24"	1	43.25 ea
1109-30	30"	1	51.50 ea
1109-36	36"	1	58.25 ea
1109-42	42"	1	65.75 ea
1109-48	48"	1	80.00 ea
1109-60	60"	1	98.50 ea
1109-72	72"	1	121.00 ea



ALUMICOLOR™ Alomicutter™ Cutting Straightedges

A unique multi-functional ruler perfect for art and drafting projects. Safely cut paper, matte board, and foamcore with a raised edge and groove that protects fingers while cutting with a hobby blade. The recessed neoprene non-slip backing keeps the Alomicutter positioned with just a light touch and won't break down over time like cork. Also, the photo-anodizing imprint technique makes the calibrations a permanent part of the aluminum that will never fade or rub off over time.

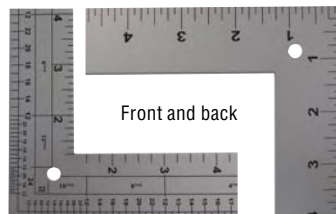
No.	Description	BQ	SRP
1313-1	18"	1	\$12.95 ea
1314-1	24"	1	14.75 ea



X-ACTO® Precision Stainless Steel Rulers

Stainless steel edge is ideal for safe, accurate cutting and measuring. Acid-etched inch graduations. Resists cuts.

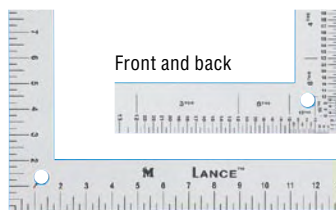
No.	Description	
X-7725	3" triangle	
X-7726	3" x 4" L-square	
SRP \$10.59 ea		BQ 1



LANCE® Standard Aluminum L-Square

Each arm is calibrated on two edges on one side and one edge on the reverse in 1/8, 1/24, 1/32, 1/2, 1/4, 1/8ths, 16ths, 2/3rds, 6ths, and 12ths. 24" x 14".

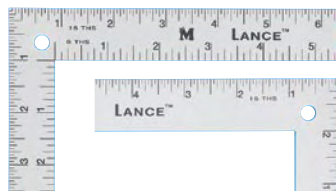
No. LS024	
SRP \$21.95 ea	BQ 1



LANCE® Half-Size Aluminum L-Square

Used for the creation of half-scale patterns. Each arm is calibrated on one edge of both sides, in 1/8, 1/24, 1/32, 1/2, 1/4, 1/8ths, 16ths, 2/3rds, 6ths, and 12ths. 12" x 6".

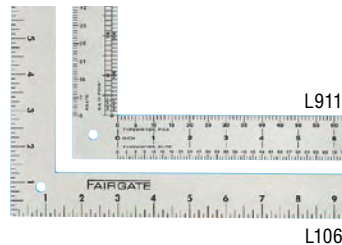
No. LS01205	
SRP \$15.70 ea	BQ 1



LANCE® Mini Aluminum L-Square

Each arm is calibrated on two edges of one side and one edge on the other. The short arm is also calibrated as a center-finding ruler on side two. 12" x 6".

No. LS012	
SRP \$13.95 ea	BQ 1



FAIRGATE® Aluminum L-Square

L-square with 14" arm is calibrated in 1/2, 1/4, 1/8, 1/16, and 1/32. 24" arm is calibrated in 24ths, 1/3, and 2/3. Reverse side in inches and 1/8.

No. L106	
SRP \$23.45 ea	BQ 1

FAIRGATE® Aluminum Proportional L-Square

Proportional scale for both reductions and enlargements up to 32". 12 1/2" x 13 1/2".

No. L911	
SRP \$17.65 ea	BQ 1



FAIRGATE® Aluminum Matte Marking T-Square

Features a numbered head and blade that accurately and simultaneously measure two points in inches. Durable, lightweight aluminum construction with head securely riveted to blade. 12" x 6" overall size.

No. 417	
SRP \$18.35 ea	BQ 1



ALVIN® 25' Tape Measure

Retractable tape measure with wrist strap features three convenient locking stops located on the top, side, and bottom. Injected metal hook end includes magnets. Nylon-coated blade has longer standout. Blister-carded.

No. ATM25	
SRP \$15.95 ea	BQ 1



ALVIN® 5' Estimator's Pocket Tape Measure

Architect graduations 1/4" and 1/8". Bright yellow enamel finish, smooth-running metal tape. Bold, easy-to-read graduations. Spring-action tape return and slide button tape lock. Compact and lightweight with convenient hanging cord. Blister-carded. 1/4" wide.

No. ET584	
SRP \$9.25 ea	BQ 1



LUFKIN® 5' Estimator's Pocket Tape Measure

Yellow clad steel blade tape with jet black markings. Spring-action return operation. Architects 1/8" and 1/4" graduations. 1/4" wide.

No. W393	
SRP \$45.95 ea	BQ 1



LUFKIN® Thin Line 8' Pocket Tape Measure

Yellow measuring tape in compact polished chrome case with spring-action blade return. Graduations in consecutive inches to 1/16", first 12" to 1/32". Markings are jet black on yellow 1/4" wide blades.

No. W608	
SRP \$31.75 ea	BQ 1



LUFKIN® Economy Tape Measures

Yellow clad tapes with black and red markings on one side. Lightweight, high-strength black matte finish case. Graduations in feet and inches to 1/16 on the top edge, in inches to 1/16 on the bottom edge (first 12" to 1/32), and 16" center studs printed in red. 1/2" wide.

No.	Size	BQ	SRP
Y8210	10'	1	\$13.55 ea
Y8212	12'	1	14.70 ea



LUFKIN® 25' 2000 Series Power Tape Measure

Silver metal clad tape features a rounded case with convenient top thumb lock. End hook is unbreakable and rubber bumper prolongs tape life. Graduated in feet and inches to 1/16. 1" wide.

No. L2125	
SRP \$24.75 ea	BQ 1



LUFKIN® 25' Magnetic Tape Measure

Magnetic end hook for easy one-person measurements on any ferrous metal surface. 1" wide.

No. L725MAG	
SRP \$16.50 ea	BQ 1



LUFKIN® 25' AutoLock Tape Measure

Pull autolock blade out and it stays extended until the release is squeezed. 1" wide.

No. AL725	
SRP \$14.25 ea	BQ 1



TRIANGULAR SCALE TAPE Three-Sided Measures

Convenient, go-anywhere size. Each tape measure has three 24" coiled rule tapes inside, each with its own non-slip toggle lock and spring action return. Uniquely shaped plastic body. Architect model has 12 graduations: 16, 1, 1/2, 1/16, 1/8, 1/4, 1 1/2, 3, 3/4, 3/8, 3/16, and 3/32. Engineer model has six graduations: 10, 50, 40, 20, 60, and 30.

No.	Description	
CB01	Architect	
CB02	Engineer	
SRP \$24.00 ea		BQ 1



STANLEY® Longtape Measure

3/8" wide white steel blade. 1/8" graduations. Smooth, easy rewinding action.

No.	Description	BQ	SRP
34103	50'	1	\$27.35 ea
34106	100'	1	37.45 ea



ALVIN® Tally Counter

Record and count instantly with this precision counter. Easy action lever changes count with slight thumb pressure and a single side knob turn resets counter to zero. Four-digit register records up to 9999. Hand-held.

No. T544	
SRP \$14.95 ea	BQ 1



GENERAL® 6" Digital Fractional Caliper

6"/153mm, 3-mode display with decimal inch, fraction inch, and metric readings. Heavy-duty metal housing, convenient on/off feature, and rugged stainless steel construction. Reads in actual fractions, as well as decimals.

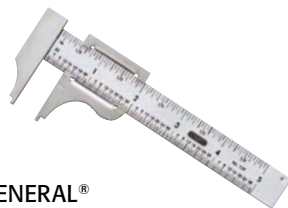
No. G147	
SRP \$65.00 ea	BQ 1



GENERAL® 3" Pocket Caliper

Precision-made, high-strength, fiberglass, reinforced plastic caliper. Opens to 3" outside measurement capacity. 4" rule is graduated in 16ths on the back. Inside/outside readings graduated in 32nds/mm.

No. G141ME	
SRP \$9.59 ea	BQ 1



GENERAL® 4" Pocket Slide Caliper

Stainless steel pocket slide caliper with a 5" rule, inside and outside reading in 16ths and 32nds, and decimal equivalents on the back. Individually carded.

No. V729	
SRP \$22.09 ea	BQ 1



GENERAL® 6" Direct Reading Digital Caliper

Accurate digital measurements in both inches and metric. Swiss precision crafted with friction thumb roller. Four-way measurement: outside, inside, depth, and step. Right hand.

No. G143	
SRP \$134.50 ea	BQ 1



GENERAL® 6" Precision Swiss Dial Caliper

Features non-magnetic, high-impact lumalcore construction. Features large, easy-to-read 1 1/2" diameter dial with .01" and 1/64" scales. Range: 6". (Manufacturers No. G-142).

No. 80D	
SRP \$55.49 ea	BQ 1



GENERAL® 6" Dial Caliper

Stainless steel construction for accuracy and durability. Large, clear dial reads to .001". Satin chrome scale with clearly etched lengths of inch graduations. Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism. Adjustable bezel for zero setting. Right hand.

No. G107	
SRP \$58.80 ea	BQ 1



GENERAL® Metric and English Vernier Caliper

Constructed of steel with inside and outside jaws, a full length depth gauge, lock for repetitive measurement, friction roller adjustment, and slide lock for gauging. Also features inside, outside depth and step measurement. Graduated in mm and 16ths of an inch with vernier reading of .1mm and 1/128". 5" capacity.

No. V722	
SRP \$14.99 ea	BQ 1



LANCE® 6" Digital Caliper

Features easy-to-see numbers, instant readings, adjustable zero function, and precision thumb roller. Convert from English to metric and back with the push of a button. Measures four ways. Hardened stainless steel. Comes with hard case and owner's manual.

No. KCD150-5	
SRP \$99.95 ea	BQ 1



GENERAL® Serviceman's Precision Measuring Set

Four of the most useful measuring and marking tools for mechanics and machinists: 0-1" micrometer, 0-6" thousandth reading caliper, 6" rigid stainless steel rule in 8ths, 16ths, 32nds, and 64ths, and a tungsten carbide scriber with magnetic pickup.

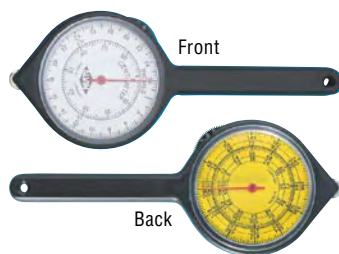
No. GS004
SRP \$167.00 st BQ 1



GENERAL® 1" Micrometer

Features cutaway frame for tight measurements, decimal equivalents, and machine-cut black graduations reading in 1/1000". Measurement range 0" to 1". Instructions included.

No. MC102
SRP \$30.15 ea BQ 1

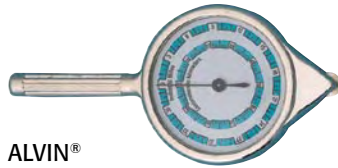


For Scale	One Revolution Measures
1/16" = 1'	576'
1/8" = 1'	288'
1/4" = 1'	144'
1/2" = 1'	72'
Inches	36"
Centimeters	1 Meter

ALVIN® Double Readout Plan Measure

Ideal for blueprints, map scaling, and drawing. Determines distances in miles or kilometers on maps and plans according to scales indicated on dial. Assures precision measurement forward or backward and follows curved lines. Precision metal gears are reset by revolution counter. Convenient handle for easy maneuverability. Two large, easy-to-read dials with unbreakable plastic faces. White dial graduated in inches and centimeters (36" = 92cm). Yellow dial graduated in 1/2", 1/4", 1/8", and 1/16" to the foot. Includes leather-like vinyl pouch for protection.

No. 1121
SRP \$43.85 ea BQ 1



ALVIN® Two-Face Map, Plan or Curve Measure

Bright, nickel-plated finish with convenient handle and clear, unbreakable plastic lenses. For measuring distances on roads, curves, contours, maps, patterns, and drawings. Dial registers inches, half-inches, and centimeters up to 39" and 99cm. Also measures statute miles and nautical miles. Multiply for feet, yards, or miles.

No. 1111
SRP \$50.95 ea BQ 1



ALVIN® Two-Face Inch Counter

Includes ring for compact pocket use and large diameter for easy readout. One side is fitted with a special dial for exact measurement of straight lines and curves on technical plans, drawings, blueprints, etc. While the pointer indicates traced distance in inches, the counter disk registers it in feet. The second dial measures distances on maps or plans made to scales of 1/2", 1/4", and 1/8" to a foot and counts the number of full pointer revolutions.

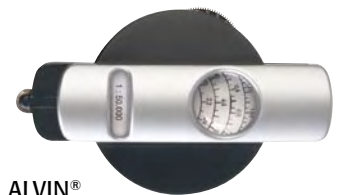
No. 1118
SRP \$61.85 ea BQ 1



ALVIN® Two-Face Inch Counter

The same as No. 1118, but with easy grip 1 1/2" long fixed handle. Packed in a leatherette case.

No. 1117
SRP \$69.95 ea BQ 1



ALVIN® Linear 1 Map Measurer

Features include plastic housing with a rotating counter and fast reset to zero, precision measuring wheel made of solid metal, and magnifier for easy readout through adjustable, protective bow. Made in Germany. 2 3/4" x 1 1/8" x 3/4".

No. 1125
SRP \$50.00 ea BQ 1



SCALEX MapWheel™ Measure

Measure distances on maps in straight lines or curves. Distance is displayed instantly. Features 19 built-in scale factors, including all common map scales, and the ability to enter custom map scales. Measures in miles, kilometers, and nautical miles only. Counter and adder buttons on probe tip count stops made or add fixed destination lengths while measuring. Requires two AAA batteries (included).

No. SC00700
SRP \$34.95 ea BQ 1



SCALEX PlanWheel™ SA2 Measure

The perfect tool for taking scaled measurements from blueprints, maps, and plans. Select the built-in scale factor to match the plan, roll the PlanWheel and the measurement is displayed instantly. Features 111 built-in and thousands of available user-defined scale factors. Includes all common scales including Imperial and metric. Calculates square and cubic dimensions for regular areas and volumes. Counter and adder buttons on probe tip count items or add fixed lengths while scaling. Create, store, and retrieve two user-defined scale factors. Automatic shut-off assures long battery life. Protective case sold separately. Requires two AAA batteries (included). This PlanWheel cannot be interfaced with a computer.

No.	Description	BQ	SRP
SC00502	PlanWheel SA2	1	\$64.95 ea
SC00100	Protective case	1	9.95 ea



SC02552

SCALEX PlanWheel™ XLU2 Measure

Designed especially for contractors, estimators, and surveyors. Handles any and all prints. Select any of the 111 common built-in scales or key in up to 19,998 user-settable scales. Calculates square and cubic dimensions for regular areas and volumes. Counter and adder buttons on probe tip count items or add fixed lengths while scaling. Create, store, and retrieve two user-defined scale factors. Protective case and computer interface kit sold separately. Connects to any Windows application with XLU2 interface kit, which includes software, an instructional manual, and USB cable.

No.	Description	BQ	SRP
SC00552	PlanWheel XLU2	1	\$84.95 ea
SC02552	XLU2 Interface kit	1	64.95 ea
SC00100	Protective case	1	9.95 ea



SCALEX Scale-Link™ WL Measure

The industry's only wireless measuring tool. Quickly and easily measure prints and plans without the restriction of a cable. Just roll the scaler wheel along the print and then instantly transfer the measurement to any third party estimating software, spreadsheet, or database with the click of a button. Includes PlanWheel WL scaler, Ready Connect software, charging cradle with USB cable, protective case, user manual, and rechargeable batteries. Cabled scaler still available.

No.	Description	BQ	SRP
SC02002	Wireless	1	\$299.95 ea
SC02001	Wired	1	124.95 ea



DSM65



CA325

CALCULATED INDUSTRIES® Scale Master® Pro XE Measure

Advanced linear digital plan measure with PC interface makes it easy to create linear, area, and volume takeoffs with speed, accuracy, and confidence when estimating, bidding, or planning. Ergonomic design is comfortable to hold, and the dual LCD displays are easy to read. Provides transfer capabilities from plans, blueprints, maps, and out of scale drawings. Features 91 built-in scales including 50 English units, 41 metric, and 8 custom for out-of-scale drawings for maximum versatility. PC interface (cable sold separately) transfers rolled values directly into commonly used spreadsheets or estimating programs. 7.2" x 1.6" x 0.6" overall size. Two 3-volt lithium (CR-2430) batteries included. Interface add-on kit requires optional 15' USB interface cable and works with Windows 2000, XP, and 32-bit Vista operating systems.

No.	Description	BQ	SRP
DSM65	Plan measure	1	\$99.95 ea
CA325	Plan measure with PC interface cable	1	149.95 ea
DSM65A	PC interface add-on kit	1	79.95 ea
CA-W	Small wheel kit with axle screw	1	10.00 ea
DSMC	Neoprene case	1	4.96 ea



DSM64

CALCULATED INDUSTRIES® Scale Master® Pro Measure

Linear digital plan measure is an ideal tool for preparing bids and estimates from plans and blueprints in the field or office. Get fast, accurate linear, area, and volume takeoffs from blueprints, drawings, and maps. Ergonomic design is comfortable to hold and dual LCD displays are easy to read. Features 72 built-in scales including 6 custom scales and 2 built-in memories. Quickly switch between metric and English modes. A lock switch prevents accidental changes of scale or mode. Includes soft vinyl protective pouch, two long-life lithium batteries (CR-2430), and user's guide.

No.	Description	BQ	SRP
DSM64	Plan measure	1	\$69.95 ea
CA-W	Small wheel kit with axle screw	1	10.00 ea
DSMC	Neoprene case	1	4.96 ea



CA224

CALCULATED INDUSTRIES® Construction Master® 5 Calculator

Features a broad range of nearly automatic construction-math problem solutions. Single key solutions to arc length, circumference, circle area, board feet conversions, and weight-per-volume conversions, this calculator works directly in most any common construction or building dimensional format. Adds, subtracts, multiplies and divides in feet-inch-fractions, decimal feet (10ths, 100ths), inches, fractions, decimal inches, yards, meters, centimeters, millimeters, square and cubic dimensions. Converts to and from any dimensional format. Automatically finds lengths of rafters, regular (45°) and irregular (non-45°) hips, valleys and jacks, stair stringers, angle of incline, number of risers and treads for any landing-to-landing height, plus riser height and tread width. Features paperless tape for reviewing past 20 entries. Includes easy-to-follow pocket reference guide and how-to CD, in English and Spanish, long-life batteries and a full one-year limited warranty.

No. CA224	SRP \$69.95 ea	BQ 1
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CALCULATED INDUSTRIES® Construction Master® Pro Calculator

Features "paperless" tape for reviewing past 20 entries. Construction Master Pro features new advanced dedicated key functions for blocks, roof areas and footings. Plus it has enhanced stair, rafter, rake wall and circular cone functions. Includes easy-to-follow pocket reference guide and how-to CD in English and Spanish, long-life batteries and a full one-year limited warranty.

No. CA227	SRP \$79.95 ea	BQ 1
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CALCULATED INDUSTRIES® Construction Master® Pro Desktop Calculator

Extra-large display and tilt head for office use. Works in and converts between all building dimensional formats. Solves right angles including rafters, rake-walls, slopes, and square-ups, stair layout calculations, complete circle solutions, full trigonometric functions, DMS conversions, areas and volumes. Calculates footing volume, blocks, roof area, board feet, material cost/estimation problems, and more. Includes CD-ROM with English and Spanish how-to CD and user guides, long-life battery, and full one-year limited warranty.

No. CA231	SRP \$89.95 ea	BQ 1
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CALCULATED INDUSTRIES® Construction Master® Pro Trig Calculator

Advanced construction math calculator with trigonometric functions for engineering and building professionals. Determine precise angle measurements and solve the most complex design and construction math problems. Built-in functions include stair calculations, common rafters, jack rafter key, circular key, and rake-wall key. Plus, estimate board feet quickly. Features user preferences, exponential notation, backspace to change just-entered values, constant operator, cost per unit, and paperless tape to review the last 20 entries. Operates as a standard math calculator. Includes protective hard cover, pocket reference guide, English and Spanish how-to CD and user guides, long-life batteries, and full one-year limited warranty.

No. CA225	SRP \$89.85 ea	BQ 1
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CA227

CALCULATED INDUSTRIES® Measure Master® Pro Calculator

This handy, easy-to-use tool for projects converts between dimensional formats including feet-inch-fractions, decimal feet-inch-fractions, yards, meters, centimeters, millimeters, areas, and volumes. Built-in functions make for faster, more accurate material estimates. Quickly solve circumference, circle area, and arcs. Dedicated length, width, and height keys provide fast answers for area, volume, square-up, and perimeter. Find weight, weight-per-volume, and more. Includes protective hard slide cover, easy-to-follow pocket reference guides in English and Spanish, long-life batteries, and a full one-year limited warranty.

No. CA223	SRP \$39.95 ea	BQ 1
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CALCULATED INDUSTRIES® Ultra Measure Master™ Calculator

Professional-grade, feet-inch-fraction and metric dimensional calculator that delivers 60 of the most-needed English-metric (SI) conversions resulting in over 400 conversion combinations. Converts to and from linear, area, volume, weight, weight-to-volume, linear velocity, flow rate, pressure, and much more. For engineers, contractors, purchasing agents, technicians, inspectors, or anyone needing a broad range of conversions. Includes 360° protective hard cover, easy-to-follow pocket reference guide, long-life battery, and full one-year limited warranty.

No. CA230	SRP \$49.95 ea	BQ 1
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CALCULATED INDUSTRIES® KitchenCalc™ Pro Calculator

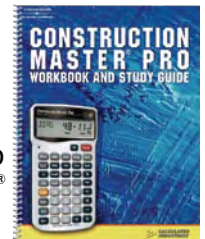
Features two count up/down digital kitchen timers that operate independently or while using the calculator. An easy-to-clean, soft plastic cover protects keys during use. Includes user's guide, long-life battery, and a full one-year limited warranty.

No. CA305	SRP \$34.95 ea	BQ 1
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VICTOR® Portable Metric Conversion Calculator

20 built-in metric conversion functions including: length, area, capacity, weight, volume, energy, and temperature conversions. LCD display includes backspace, change sign, percent, square root keys, three key independent memory. Solar powered/battery backup.

No. V907	SRP \$13.99 ea	BQ 1
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CALCULATED INDUSTRIES® Construction Master® Pro Workbook and Study Guide

Advanced feet-inch-fraction construction math power tool for education and training in the classroom or on the job. Organized in four modules for flexibility, following construction steps from site development to finishing. Learn how to master the Construction Master Pro as an essential tool for greater efficiency and productivity on the jobsite. Quickly solve routine construction problems or complex design and estimating challenges while reducing construction math errors. Pick-up tips to use time-saving features and functions. Calculator not included.

No. CA2140	SRP \$19.95 ea	BQ 1
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SONIN® Multi-Measure Combo Pro

Measures up to 250 feet when used with its electronic target. Uses both sound waves and an infrared beam. Measures up to 60 feet in single unit mode using ultrasound. Range may be longer or shorter depending on environmental factors. Accuracy is 99.5% plus or minus 1/4". Measure indoors or out. Ergonomic design makes it comfortable to use. Built-in calculator to add linear measurements and compute areas and volumes. Features intelligent software, improved accuracy, seven storage memories, easy-to-read LCD display, measures from front or back of unit, power indicator light on target, auto shut-off and durable protective carry pouch with belt loop. Requires two 9-volt batteries (not included).

No. DG10300	SRP \$140.99 ea	BQ 1
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NEW

CALCULATED INDUSTRIES® Laser Dimension Master II Measuring Device

A simple to use, versatile measuring device for anyone requiring fast, accurate indoor measurements up to 50'. No more clumsy measuring tapes. Small, ergonomically designed tool for quick and easy one-person measurements of rooms and indoor distances. Easily fits in the palm of a hand.

No. CA3339
SRP \$39.95 ea

BQ 1



CALCULATED INDUSTRIES® DigiRoller Plus II Measuring Wheel

Get fast, accurate measurements for on-site linear, area, and volume estimates. The perfect tool for any pro that needs fast, affordable one-person measurements, indoors or out. Step-saving functions calculate and store intermediate and total lengths, find square areas, cubic volumes, and more for up to nine different areas. Unique data storage capability helps reduce field notes and costly miscalculations. Large, easy-to-read LCD displays measurements to 999,999.9 feet (or meters, yards, inches) with full display spell-outs and built-in LCD contrast control. Convenient kickstand folds out of the way when not needed. Wheel circumference 1 meter (39%). Wheel diameter 0.319 meter (12%). Weight 6 lbs. Full one-year warranty.

No. CA425
SRP \$169.95 ea

BQ 1



MM30

ROLATAPE® Single-Wheel Measure Master®

Durable heavy-duty construction with a pistol grip handle for maximum comfort during use. Lightweight aluminum measuring wheel with precision molded tire. Completely sealed counter records in feet and inches up to 10,000 feet without resetting. Collapsible telescopic aluminum handle for easy storage. Safety-yellow counter casing. Features accurate long run measuring for indoor and outdoor jobs. Collapsed unit measures 24" and extends to 42½" for operation. Wheel diameter 12". Weighs 5 lbs. Three-year warranty.

No. MM30
SRP \$109.40 ea

BQ 1



MM50

ROLATAPE® Large-Wheel Measure Master®

Specialty crafted handle ensures firm grip, ease of operation. Support ribs on handle socket for added strength. Completely sealed counter records in feet and inches up to 10,000 feet without resetting. Lift and lock folding handle for easy storage. Safety-green counter casing. Large wheel heavy-duty construction features a sturdy 5-foot circumference wheel for precision all weather field measurements over rough or uneven terrain. Precision calibrated wheel with Neoprene tire for outstanding traction and durability. Wheel diameter 19". Weighs 6 lbs. Three-year warranty.

No. MM50
SRP \$132.00 ea

BQ 1

ROLATAPE® Measuring Wheels

Rugged, reliable, and specifically designed for heavy-duty field use. Specially-crafted hand grip provides firm control and easy operation even over rough terrain. Completely sealed counter measures up to 100,000 feet without resetting. Powder-coat finish. Five-year warranty.



MOD300

ROLATAPE® Measuring Wheel

Measuring wheel is suitable for landscaping, fencing, irrigation, seeding, fertilizing, and golf course measuring needs. Equipped with lift-and-lock folding handle. Precision-calibrated wheel rimmed with hard-rubber tread for solid traction and superior balance. Includes strong, self-lubricating, wheel bearings. Wheel circumference 3 feet. Wheel diameter 11¼". Weighs 5 lbs.

No. MOD300
SRP \$158.00 ea

BQ 1



MOD400

ROLATAPE® Large Outdoor Measuring Wheel

Large outdoor measuring wheel is ideal for engineers, surveyors, and contractors. Wide Neoprene tire provides positive traction and extra long wear. Automatic brake prevents accidental backtracking to ensure accuracy. Built-in stand keeps wheel in upright position. Spokes set at 2¼" for estimating measurements less than one foot. Wheel circumference 4 feet. Wheel diameter 15½". Weighs 8 lbs.

No. MOD400
SRP \$227.00 ea

BQ 1



MOD415

ROLATAPE® Solid Disk Measuring Wheel

Engineered with a coated steel disk wheel that allows easy movement through brush and undergrowth. Measurements on disk for inches and tenths of feet. Powder-coat finish. Wheel circumference 4 feet. Wheel diameter 15½". Weighs 10 lbs.

No. MOD415
SRP \$202.00 ea

BQ 1



MM12

MM12TWIN

ROLATAPE® Measure Masters® Measuring Wheels

For accurate line-to-line, wall-to-wall, vertical, overhead, and around curve measuring on firm surfaces, both indoors and out. ABS plastic measuring wheel is light and easy to handle, a favorite of realtors, appraisers, safety engineers, and traffic officers. Rubber grip for maximum comfort during use. Completely sealed safety yellow push button counter records in feet and inches up to 10,000 feet without resetting. Wide precision molded wheels for a firm, stable grip. Three-piece collapsible aluminum handle for easy storage and portability. Wheel circumference 1 foot. Diameter 4". Three-year warranty.

Single wheel unit collapsed measures 18" and extends to 36½" for operation. Weighs less than 2 lbs.

Dual wheels provide exceptional traction and stability. When handle is collapsed unit measures 18¼" and extends to 36½" for operation. Weighs 2 lbs.

No.	Description	BQ	SRP
MM12	Single wheel	1	\$53.00 ea
MM12TWIN	Dual wheel	1	94.00 ea

Rolatape® Guarantee

Measuring wheels are guaranteed to be free from defective material and workmanship as follows; the Measure Master® Series, for a period of three years from date of purchase, and the Rolatape® Professional Series, for a period of five years from date of purchase. If found defective within this period and returned prepaid, it will be repaired or replaced at our discretion without charge.

Guarantee is void if the measuring wheel has been taken apart, damaged, oiled, or used improperly and thus cannot be repaired or replaced at no charge.