Introduction to our new product lines:
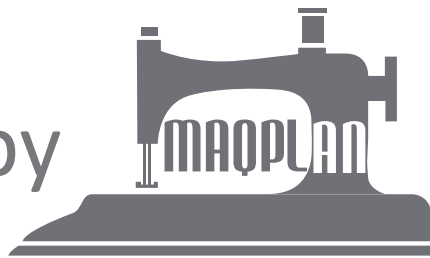
- Rulers
- Tagging Guns & Needles
- Fasteners
- Safety Pins
- Pins
- Hand Sewing Needles

Presented by MAQPLAN

General Uses for Pins

- Traditional Safety Pins
  - Used to fasten 2 pieces of fabric together
  - Used to hold embroidery in place
  - Used to patch torn or damaged clothing
  - Perfect for diapers, as the safety clasp prevents the baby from being jabbed
  - Used as a temporary button or zipper
  - Used in thousands of other household, craft and industrial applications

- Black Safety Pins
  - Perfect for emergency repairs without being detected on dark fabrics
  - Can be used in thousands of other household, craft and industrial applications
  - Great for attaching hunting badges

- Coilless Pins
  - Have no coil to wrap around or snag delicate fabrics
  - Used in creating fashion accessories
  - Used to place-mark on knitting and crocheting
  - Used to hold appliqué in place on delicate fabrics

- Kiltie Pins
  - Used to hold skirts and kilts closed
  - Used as shawl pins
  - Used as horse blanket pins
  - Used in creating fashion accessories

- Bank Pins
  - Used when working with heavyweight material
  - Used in model assembly
  - Used in thousands of other household, craft and industrial applications

- Dressmaker Pins
  - Used when working with medium to lightweight materials
  - Used to place Appliqué, sequins or trim
  - Used in thousands of other household, craft and industrial applications

- Black Bank Pins
  - Used when working on fine fabrics
  - Used in Entomology
  - Used in Taxidermy

- T-Pins
  - Used to hold hefty upholstery and outdoor fabric in place
  - Used in model assembly
  - Artist supplies

- Laundry Pins / Net Pins
  - Perfect for keeping your mesh laundry bag closed and garments inside
  - Used as horse blanket pins

- Marking Pins
  - Used for identification on Items such as:
    - Locker I.D.s
    - Swim badges
    - Key holders

Quality Specifications

- <u>Safety Pins</u> are constructed using either hardened brass or high carbon steel, with a nickel or gilt plating
  - These coatings strengthen the safety pin and help protect against rust and corrosion
    - Nickel plating results in a silver colored finish
    - Gilt plating results in a gold colored finish

- <u>Black Safety Pins</u> are constructed using either hardened brass or steel which is then specially treated to give the pins a black matte finish
  - The oxidation process makes these safety pins rust resistant

- <u>Coilless Safety Pins</u> are constructed using either hardened brass or high carbon steel, with a nickel or gilt plating
  - These coatings strengthen the safety pin against rust and corrosion
    - Nickel plating results in a silver colored finish
    - Gilt plating results in a gold colored finish

- <u>Kiltie Pins</u> are constructed using hardened steel, with a nickel plating or gilt plating
  - Nickel plating results in a silver colored finish
  - Gilt plating results in a gold colored finish
  - This coating makes these pins highly resistant to corrosion and oxidation

- <u>Laundry Bag / Net Pins</u> are constructed using stainless steel wire, with a nickel plating
  - These pins have safety blunted points
  - Used to secure mesh laundry bags

- <u>Marking Pins</u> are constructed using stainless steel
  - The stainless steel construction makes these pins very long lasting and resistant to corrosion
  - They are available in three shapes: Mushroom, Flared, Standard

Pin Code Explanation Charts

You will not be able to determine the composition of a pin by its outward appearance. To assist you, please refer to the charts below.
By understanding the coding used in the pin part number, you will always be able to select the right pin for your needs

Safety Pins

Size	Inches	MM	Metal	Plating	Sold	Brand
00	3/4"	19 mm	S = Steel	N = Nickel	O = Open	Brass = Major®
0	7/8"	22 mm	B = Brass	G = Gilt	C = Closed	Steel = Supreme®
1	1 1/16"	27 mm		Oxy = Black		
2	1 1/2"	38 mm				
3	2"	51 mm				
7	3"	73 mm				

e.g. X-00-BGC (3/4" / 19 mm, Brass, Gilt, Closed)

Pins and T-Pins

Size	Inches	MM	Metal	Plating
16	1"	25.4 mm	S = Steel	N = Nickel
17	1 1/16"	27 mm		B - Black Enamel
20	1 1/4"	32 mm		
24	1 1/2"	38 mm		
28	1 3/4"	44.45 mm		
32	2"	50.8 mm		

Kiltie Pins

Size	Inches	MM	Metal	Plating	Sold	Brand
7	2 1/2"	63 mm	S	N = Nickel	C = Closed	Steel = Supreme®
11	3"	76 mm	S	G = Gilt	C = Closed	

Laundry Bag / Net Pins

Size	Inches	MM	Metal	Plating	Sold	Brand
3	3 1/4"	82.6 mm	SS = Stainless steel	None	C = Closed	Brass = Major®
4	4 1/4"	108 mm				
5	5"	127 mm				

Marking Pins

Size	Inches	MM	Metal	Plating	Sold	Brand
ALL	2"	50.8 mm	SS = Stainless Steel	None	C = Closed	Stainless Steel = Major®

Major® Safety Pins Specifications

Sold by the box
10 Gross per box (1440 pins)

Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Gross per Box	How Many Boxes per Case
X-00-BGC	3/4"	19 mm	.0255"	64 mm	B	G	C	1440	10	25
X-0-BGC	7/8"	22 mm	.0265"	.68 mm	B	G	C	1440	10	25
X-0-BNO	7/8"	22 mm	.0265"	.68 mm	B	N	O	1440	10	25
X-1-BGO	1 1/16"	27 mm	.0290"	.74 mm	B	G	O	1440	10	20
X-1-BGC	1 1/16"	27 mm	.0290"	.74 mm	B	G	C	1440	10	20
X-1-BNO	1 1/16"	27 mm	.0290"	.74 mm	B	N	O	1440	10	20
X-1-BNC	1 1/16"	27 mm	.0290"	.74 mm	B	N	C	1440	10	20

Supreme® Safety Pin Specifications

Sold by the box
10 Gross per box (1440 pins)

Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Gross per Box	How Many Boxes per Case
X-00-SGC	3/4 "	19 mm	.0255"	64 mm	S	G	C	1440	10	25
X-0-SGC	7/8"	22 mm	.0255"	.64 mm	S	G	C	1440	10	25
X-0-SNC	7/8"	22 mm	.0255"	.64 mm	S	N	C	1440	10	25
X-1-SGC	1 1/16"	27 mm	.0295"	.75 mm	S	G	C	1440	10	20
X-1-SO	1 1/16"	27 mm	.0310"	.79 mm	S	N	O	1440	10	20
X-1-SC	1 1/16"	27 mm	.0310"	.79 mm	S	N	C	1440	10	20
X-2-SO	1 1/2"	38 mm	.0385"	.99 mm	S	N	O	1440	10	10
X-2-SC	1 1/2"	38 mm	.0385"	.99 mm	S	N	C	1440	10	10
X-3-SC	2"	50.8 mm	.0455"	1.15 mm	S	N	C	1440	10	10

Major® Black Safety Pins

Sold by the box
10 Gross per box (1440 pins)

Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Gross per Box	How Many Boxes per Case
X-00-OXY	3/4"	19 mm	.0270"	0.67 mm	B	OXY	C	1440	10	25
X-0-OXY	7/8"	22 mm	.0250"	0.64 mm	B	OXY	C	1440	10	25
X-3-OXY	2"	50.8 mm	.0495"	1.36 mm	B	OXY	C	1440	10	10

Major® Coilless or French Safety Pins

Sold by the box
10 Gross per box (1440 pins)

| Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Gross per Box	How Many Boxes per Case
X-00-SGC-C	3/4"	19 mm	.0270"	.68 mm	S	G	C	1440	10	25
X-0-BGO-C	7/8"	22 mm	.0270"	.68 mm	B	G	O	1440	10	25
X-0-BGC-C	7/8"	22 mm	.0265"	.64 mm	B	G	C	1440	10	25
X-0-SGC-C	7/8"	22 mm	.0270"	.68 mm	S	G	C	1440	10	25
X-1-SGC-C	1 1/16"	27 mm	.0295"	.75 mm	S	G	C	1440	10	20

Major® Kiltie Pins

Sold by the box (144 pins)

Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Gross per Box	How Many Boxes per Case
7N-KILT	2 1/2"	63.5 mm	.0980"	2.48 mm	S	N	C	144	1	20
11G-KILT	3"	76 mm	.0790"	2.01 mm	S	G	C	144	1	20

Major® Laundry Bag/ Net Pins

Product No.	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Poly- Bag	How Many Poly-Bags per Box	How Many Boxes per Case
3NP	3 1/4"	82.6 mm	.0787"	2.00 mm	SS	N	C	10	10	3
4NP	4 1/4"	108 mm	.1102"	2.80 mm	SS	N	C	10	10	3
5NP	5"	127 mm	.1259"	3.20 mm	SS	N	C	10	10	3

- The pin cap can be engraved with up to 5 characters, at an additional cost.
- Minimum quantity 100 pins for customization.

Major® Stainless Steel Marking Pins

Sold by the box (100 pins)

Product No.	Shape	Overall Length Inches / MM		Wire Diameter Inches / MM		Metal	Plating	Open / Closed	How Many Pins per Box	How Many Boxes per Case
M1-MS	Mushroom	2"	50.8 mm	.060"	1.52 mm	SS	None	C	100	10
M2-FS	Flared	2"	50.8 mm	.060"	1.52 mm	SS	None	C	100	10
M3-SS	Standard	2"	50.8 mm	.054"	1.37 mm	SS	None	C	100	10

- The pin cap can be engraved with up to 5 characters, at an additional cost.
- Minimum quantity 100 pins for customization.
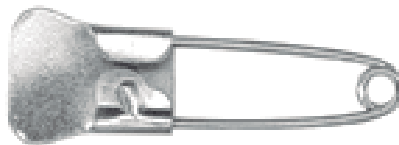
Mushroom Shaped   Flared Shape   Standard Shape

Royal Ruth Nickel and Black Bank Pins
Lance® Nickel Dressmaker

Sold by the box (5 Lbs.)

Product No.	Size	Length Inches / MM		Diameter Inches / MM		Metal	Plating	How Many Pounds per Box	How Many Boxes per Master Case
Royal Ruth Bank Pins									
17SB-05	17	1 1/16 "	27 mm	.034"	0.86 mm	S	N	5 *	5
24SB-05	24	1 1/2"	38 mm	.046"	1.16 mm	S	N	5	5
32SB-05	32	2"	50.8 mm	.046"	1.16 mm	S	N	5	5
Royal Ruth Black Bank Pins									
17BB-5	17	1 1/16"	27 mm	.028"	0.70 mm	S	B	5	5
24BB-5	24	1 1/2"	38 mm	.035"	0.90 mm	S	B	5	5
32BB-5	32	2"	51 mm	.047"	1.20 mm	S	B	5	5
Lance® Dressmaker Pins									
17SD-05	17	1 1/16"	27 mm	.028"	0.70 mm	S	N	5 *	5
17SD-1	17	1 1/16"	27 mm	.028"	0.70 mm	S	N	5 **	5
20SD-1	20	1 1/4"	32 mm	.030"	0.70 mm	S	N	5 **	5
24SD-1	24	1 1/2"	38 mm	.036"	0.90 mm	S	N	5 **	5

* The 17SB-05 is packed in ten (10) 1/2 pound inner packages per box

** The 17SD-1, 20SD-1 and 24SD-1 are packed in five (5) 1 pound inner packages per box, 25 Lbs. to a master carton

Lance® T-Pins

All T-Pins are sold by the junior carton (5 lbs.)
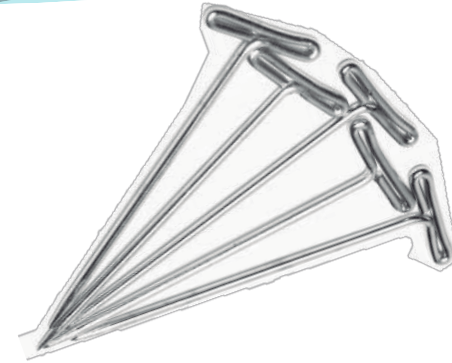
Product No.	Size Inches / MM		Diameter Inches / MM		Metal	Plating	How Many Pounds per Box	How Many Boxes per Junior Carton	How Many Junior Cartons per Master Case	Approximate Count per Pound
X16T-05	1"	25.4 mm	.0300"	0.76 mm	S	N	1/2 lbs.	10	5	3200 *
X20T-05	1 1/4"	32 mm	.0335"	0.85 mm	S	N	1/2 lbs.	10	5	2200 *
X24T-05	1 1/2"	38 mm	.0455"	1.15 mm	S	N	1/2 lbs.	10	5	900 *
X28T-05	1 3/4"	44.45 mm	.0455"	1.15 mm	S	N	1/2 lbs.	10	5	800 *
X32T-05	2"	50.8 mm	.0455"	1.15 mm	S	N	1/2 lbs.	10	5	750 *

Note: * All counts per pounds are approximate and should be used as a guide only

Customization

Private label available upon request. A minimum order is required.

Lance®
Hand Sewing Needles

CAREFULLY CRAFTEDOF CARBON STEEL AND FULLY NICKEL PLATED

* Made to European Needle Specifications

Lance® Hand Sewing Needles

<u>Sharps Needles</u> are medium length needles. They are the most popular needle for general hand sewing.   The # 12 Sharps are also used by tattoo artists in applying tattoos. # 2, 3 & 4 are suitable for medium to heavy fabrics. # 5, 6, 7, 8, 9 & 10 are suitable for light to medium fabrics. # 11 & 12 are suitable for fine fabrics or creating small delicate stitches.

Sold 40 packs of 25 needles = 1000 needles

<u>Beading Needles</u> are very fine and long needles, with long eyes. These needles are suitable for stinging beads, pearls and sequins anything requiring a thin needle. Beading needles are ideal when attaching beads to a fabric that already have embroidery. Only available in sizes 10 and 12.

Sold 40 packs of 25 needles = 1000 needles

<u>Darning Needles (cotton) # 1-12</u> are long needles with long eyes and sharp points. They are used for mending, darning using cotton or yarn, basting and layering fabrics together.

Sold 40 packs of 25 needles = 1000 needles

<u>Crewel (Embroidery) Needles</u> are identical in length and thickness to Sharps but have a longer eye for easier threading when using multiple strands of thread. Because of their large eye, these needles are ideal for people who have difficulty seeing the eye of a needle.   .
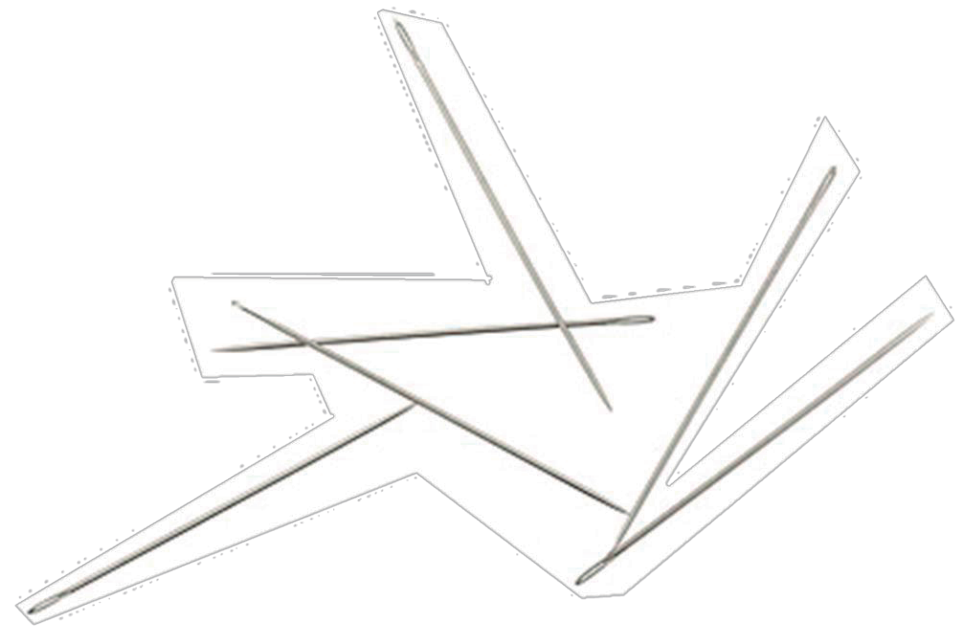
Sold 40 packs of 25 needles = 1000 needles

Lance® Beading Needles

Sold by the box (1000 needles)

Product No.	Size	Diameter Inches / MM		Length Inches / MM		Max Thread Size	Minimum Bead Size	How Many per Pack	How Many Packs per Box
10-BDG	10	.018"	0.46 mm	2.16"	55 mm	0.30 mm	15/0	25	40
12-BDG	12	.014"	0.35 mm	2.00"	51 mm	0.16 mm	15/0	25	40

Lance® Crewel Needles

Sold by the box (1000 needles)

Product No.	Size	Length Inches / MM		Diameter Inches / MM		How Many per Pack	How Many Packs per Box
1-CR	1	1.91"	48.5 mm	.046"	1.17 mm	25	40
2-CR	2	1.83"	46.5 mm	.043"	1.09 mm	25	40
3-CR	3	1.79"	45.5 mm	.040"	1.02 mm	25	40
4-CR	4	1.69"	43.0 mm	.037"	0.94 mm	25	40
5-CR	5	1.63"	41.5 mm	.034"	0.86 mm	25	40
6-CR	6	1.55"	39.5 mm	.030"	0.76 mm	25	40
7-CR	7	1.50"	38.0 mm	.027"	0.69 mm	25	40
8-CR	8	1.42"	36.0 mm	.024"	0.61 mm	25	40
9-CR	9	1.36"	34.5 mm	.021"	0.53 mm	25	40
10-CR	10	1.28"	32.5 mm	.018"	0.46 mm	25	40
11-CR	11	1.22"	31.0 mm	.016"	0.42 mm	25	40
12-CR	12	1.14"	29.0 mm	.014"	0.35 mm	25	40

Lance® Sharps Needles

Sold by the box (1000 needles)

Product No.	Size	Length Inches / MM		Diameter Inches / MM		How Many per Pack	How Many Packs per Box
1-SH	1	1.91"	48.5 mm	.046"	1.17 mm	25	40
2-SH	2	1.83"	46.5 mm	.043"	1.09 mm	25	40
3-SH	3	1.79"	45.0 mm	.040"	1.02 mm	25	40
4-SH	4	1.69"	43.0 mm	.037"	0.94 mm	25	40
5-SH	5	1.63"	41.5 mm	.034"	0.86 mm	25	40
6-SH	6	1.55"	39.5 mm	.030"	0.76 mm	25	40
7-SH	7	1.50"	38.0 mm	.027"	0.69 mm	25	40
8-SH	8	1.42"	36.0 mm	.024"	0.61 mm	25	40
9-SH	9	1.36"	34.5 mm	.021"	0.53 mm	25	40
10-SH	10	1.28"	32.5 mm	.018"	0.46 mm	25	40
11-SH	11	1.22"	31.0 mm	.016"	0.42 mm	25	40
12-SH	12	1.14"	29.0 mm	.014"	0.35 mm	25	40

Laser II®, Laser III® & Laundry Tack®

Tagging Guns & Needles

Sabre®

Fasteners

Laser II®, Laser III®, Laundry Tack® Tagging Guns

Product No.	Description	
L2R-LAN	Laser II® Standard Pistol –Grip Tagger (10651)	• Durable ABS construction. Solid steel and brass components. • Lightweight and compact with a shorter "nose" makes one-hand tagging "a breeze". • Totally interchangeable with the Mark II™ & Mark III™ needles and fasteners. • Uses Laser II® #300-LAN standard or #700-LAN all steel heavy duty needles. • Our unique Laser II® needle, with built in blade, is replaced in one simple step. • For greater economy, use our #841-LAN stainless steel shaft with plastic base needle.
L3R-LAN	Laser III® Heavy Duty Meat ID Tagger (08958)	• Made of specially selected USDA Accepted plastics and stainless steel parts. • Equipped with an easy to replace stainless steel ejector rod. • It features several drain holes so debris can be flushed out quickly. • A unique needle lock set screw that insures that the needle will not come out accidentally. To replace the needle, unscrew the lock set screw and tap out the needle. • Uses Laser II® #700-LAN all steel heavy duty or #300-LAN standard needle. • For greater economy, use our #841-LAN stainless steel shaft with plastic base needle. • Only gun that can be used in the meat, poultry and fish tagging process.
LTG/S – LAN	Laundry Tack® Fine Fabric Tagger (10312)	• Durable ABS construction. Solid steel and brass components. • Lightweight and compact with a shorter "nose" makes one-hand tagging "a breeze". • Totally interchangeable with the Mark II™ needles and fasteners. • Uses our Laser II® #400-LAN all steel needle. • For greater economy, use our #844-LAN stainless steel shaft with plastic base needle. • Will accommodate any brand fine fasteners.

- Sold individually
- Packed one gun per box
- 50 guns per junior carton
- 100 guns per master case

Sabre® Standard Fasteners

Sold by the box

Product No.	Use with the Following Guns	Filament Length Inches / MM		How Many Fasteners per Box	How Many Boxes per Case	Total Fasteners per Case
SBR-05-X	Laser II® , Mark II™ , Eagle, Simba	1/2"	12.7 mm	2500	20	50M
SBR-1-X	Laser II® , Laundry Tack® Gun (LTG), Mark II™, Mark III™	1"	25.4 mm	2500	20	50-M
SBR-2-X	Laser II®, Laser III®, Mark II™, Eagle, Simba, TagFast	2"	50.8 mm	2500	20	50-M
SBR-3-X	Laser II®, Mark II™, Eagle, Simba and other similar guns using needle with blade	3"	76.2 mm	2500	20	50-M
SBR-05 (AF05)	Laser II®, Laundry Tack® Gun (LTG), Mark II™, Eagle	1/2"	12.7 mm	5000	40	200M
SBR-1 (AF1)	Laser II® , Laundry Tack® Gun (LTG), Mark II™, Mark III™	1"	25.4 mm	5000	40	200M
SBR-2 (AF2)	Laser II®, Laser III, Mark II™, Eagle, Simba, TagFast	2"	50.8 mm	5000	40	200M
SBR-3 (AF3)	Laser II®, Mark II™, Eagle, Simba and other similar guns using needle with blade	3"	76.2 mm	5000	20	100M
SBR -3B (AF3B) BLACK	Laser II®, Mark II™, Eagle, Simba and other similar guns using needle with blade	3"	76.2 mm	5000	20	100M
SBR-5 (AF5)	Laser II® , Laundry Tack Gun (LTG), Mark II™, Mark III™	5"	127 mm	5000	20	100M

Fit all standard tagging guns including Mark II™ and Mark III™.

Tagging Gun Needles

LASER II® & LASER III® TAGGING GUN NEEDLES

- Laser II® & Laser III® needles are designed to fit the Laser series tagging guns and many other tagging guns, including Avery Dennison guns.
- All Laser II® & Laser III® needles are machine milled from high quality carbon steel to exacting standards. They have steel (not plastic) base.
- The # 700-LAN needle is USDA Accepted for use in the food industry.

LASER II® & LASER III® ECONOMY TAGGING GUN NEEDLES

- Laser II® & Laser III® Needles are designed to fit Laser series tagging guns and many other tagging guns, including Avery Dennison guns.
- These needles have a stainless steel shaft and sturdy plastic base.

T-SERIES STANDARD TAGGING GUN NEEDLES

- T-Series Needles are designed to fit all standard tagging guns.
- T-Series Needles are used in guns with detachable cutting blades.
- All T-Series Needles are machine milled from high quality carbon steel to exacting standards. They have a steel (not plastic) base.

Sold by the pack, each pack contains 4 Needles.

Laser Tagging Needles

Sold by the pack (4 needles)
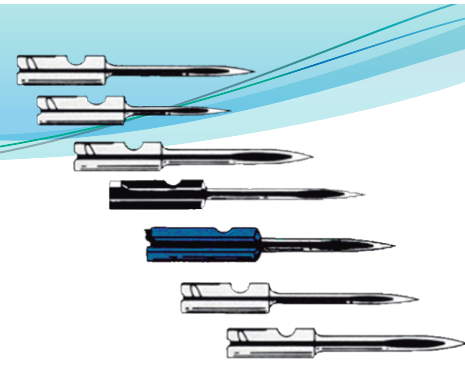
Product No.		Dennison Style #	Length Inches / MM		Diameter Inches / MM		Material	Use with the Following Guns	Needles per Pack	Packs per Box
300 –LAN	Standard		1.28"	32 mm	.0740"	1.88 mm	All Steel	Laser II® Regular, Mark II™ Regular, Eagle, Simba	4	50
400 – LAN	Fine Fabric	10070	1.00"	25 mm	.0540"	1.37 mm	Heavy Duty All Steel	Laser II® Fine Fabric, Laundry Tack® Gun (LTG), Mark II™ Fine Fabric, Mark III™ Fine Fabric, Fine Fabric Plus®	4	50
700 – LAN	Heavy Duty	08913	1.28"	32 mm	.0867"	2.20 mm	Heavy Duty All Steel Nickel Plated USDA Accepted	Laser II® and Laser III® Regular, Mark II™ Regular, Eagle, Simba, TagFast®	4	50
841 – LAN	Standard	08941	1.28"	32 mm	.0740"	1.88 mm	Stainless Steel Shaft Plastic Base	Laser II® Regular, Mark II™ Regular, Eagle, Simba and other similar guns using needle with blade	4	50
844 – LAN	Fine Fabric	08944	1.00"	25 mm	.0540"	1.37 mm	Stainless Steel Shaft Plastic Base	Laser II® Fine Fabric, Laundry Tack® Gun (LTG), Mark II™ Fine Fabric, Eagle Fine Fabric	4	50
T94 – LAN	Standard		1.28"	32 mm	.0740"	1.88 mm	All Steel	Fits all Standard guns	4	50
T97 – LAN	Standard Heavy Duty	08913	1.28"	32 mm	.0867"	2.20 mm	All Steel	Fits all Standard guns	4	50

Lance®

- Aluminum Rulers
- Curves
- L-Squares
- T-Squares
- Triangles

Quality Specifications

Lance® anodized aluminum, scratch-resistant measuring tools are precision made using the highest quality materials and the finest workmanship to guarantee smooth, clean work edges and easily-read measurements. The accuracy and clarity of Lance® calibrations meet the highest standards in the industry.

- <u>Curves</u> are designed to draw the numerous contours of the human form.
    - <u>Hip Curves:</u> Calibrations are on one edge, on both sides. Patternmakers, designers and tailors alike reach for this tool to measure or draw hipline, trouser inseam, lapels, sleeves, skirt seams, etc.
    - <u>French Curves:</u> Calibrations are on one edge, on both sides. Used to form arm hole curves. These tools complement the Hip Curve by adding the various curves formerly found only in a Burmester set.
- <u>T-Squares</u> are available in lengths from 12" to 72" and made of standard or heavy duty gauge aluminum. Calibrations are in 8ths and 16ths of an inch on the blade, and in 8ths of an inch on the head. The T-Square heads are made from ABS plastic for the greatest durability. The blue standard head is 9" long. The Green heavy duty head is 16" long.

- <u>Triangles</u> are excellent tools for commercial artists, draftsmen and hobbyist. They are available in angles of 30°/60°/90° or 45°/45°/90°, and in lengths from 6" to 14". They are calibrated in 16ths of an inch on one edge, one side.   Each triangle has 20 or 26 circular template holes, depending on its size. The diameter of the circular template holes ranges from 1/32" to 1 3/8".

- <u>Straight Edge Rulers</u> are universally used tools and come in the following configurations:
    - <u>Inches:</u> Calibrations are on two edges in 16ths and 8ths on one side.
    - <u>Inches and Centimeters:</u> Calibrations are on two edges, on one side. Millimeters to centimeters on the top edge. Inches in 16ths on the bottom edge.
    - <u>Millimeters and Centimeters:</u> Calibrations are on two edges, on one side. Millimeters to centimeters on the top edge and centimeters on the bottom edge.
    - <u>Cork-Backed Inking Rulers:</u> Calibrations are on two edges, on one side. Inches in 8ths and 16ths. Since the water-resistant cork backing raises the ruler above the work surface, inking can be done without fear of bleeding or smearing.

Quality Specifications (continued)

- <u>L-Squares</u> are universally used tools and come in the following configurations:
  - <u>Standard L-Squares</u> are calibrated in inches or centimeters. Each arm is calibrated on two edges on one side and on one edge on the reverse side.
  - <u>Half-Size L-Squares</u> are calibrated in inches or centimeters. Each arm is calibrated on one edge on two sides. The Half-Size L-Square is a half scale of our Standard L-Squares.
  - <u>Mini L-Squares</u> are calibrated in inches or centimeters. Each arm is calibrated on two edges on one side and one edge on the reverse side. The short arm is also calibrated as a center-finding ruler.

- <u>Lance® Black Anodized Rulers</u> are constructed of black, anodized, hardened aluminum, .090" thick and 1" wide. They are designed for use in demanding environments such as machine shops and factories where conditions often prove destructive for rulers of a less hardy construction. The calibrations appear in a sharp contrast of silver against a black background and are able to withstand extensive wear and tear .

- <u>Specialty Rulers</u>
  - <u>Cuff Rulers</u> are handy accurate tools used to quickly mark trouser cuffs of various lengths and widths. Calibrated in inches, 8ths on top edge and 16ths on the bottom edge.
  - <u>Center Finding Rulers</u> are designed as an efficient aid in finding the center between two points. They are a significant time-saving device in pattern-making, tailoring, form design and crafts of all kind. There is a zero-point at the center of the top edge of the ruler, with equal incremental measurements to the left and to the right in 32nds of an inch. The bottom edge is a standard ruler calibrated in 16ths.
  - <u>Agate / Pica Rulers</u> are precision tools used in the layout of printed material. Calibrated on two edges, on two sides.
    - Side One: Inches, in 16ths on top edge and Picas on the bottom.
    - Side Two: Inches, in 16ths on top edge and Agates on the bottom.
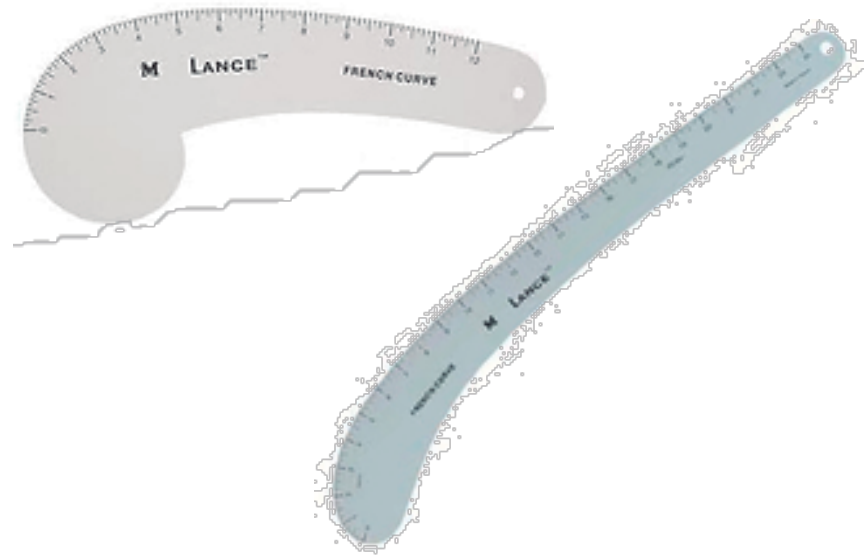
Lance® Curves

Hip Curves

Product No.	Length	Calibrations
HC-024-LAN	24"	1/8"
HC-060M-LAN	60 cm	1/2 cm
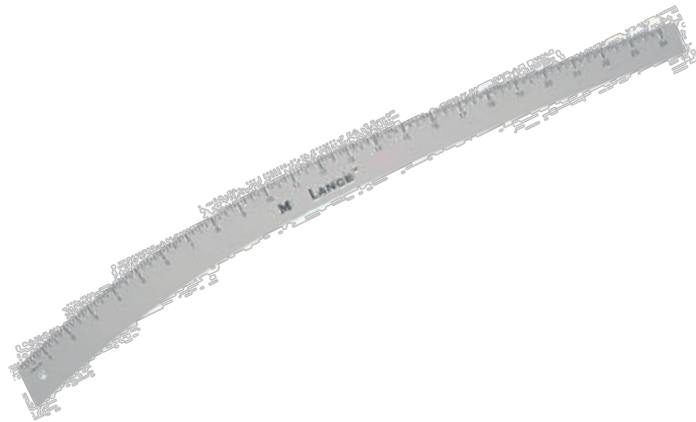
French Curves

Product No.	Length	Calibrations
FC-012-LAN	12"	1/8"
FC-024-LAN	24"	1/8"
FC-032M-LAN	32 cm	1/2 cm
FC-060M-LAN	60 cm	1/2 cm

Lance® T-Squares

Standard T-Squares
(Blue Head 9")

Product No.	Length-Width	Calibrations
T-012-LAN	12" x 1-1/2"	1/8", 1/16"
T-015-LAN	15" x 1-1/2"	1/8", 1/16"
T-018-LAN	18" x 1-1/2"	1/8", 1/16"
T-030-LAN	30" x 1-1/2"	1/8", 1/16"
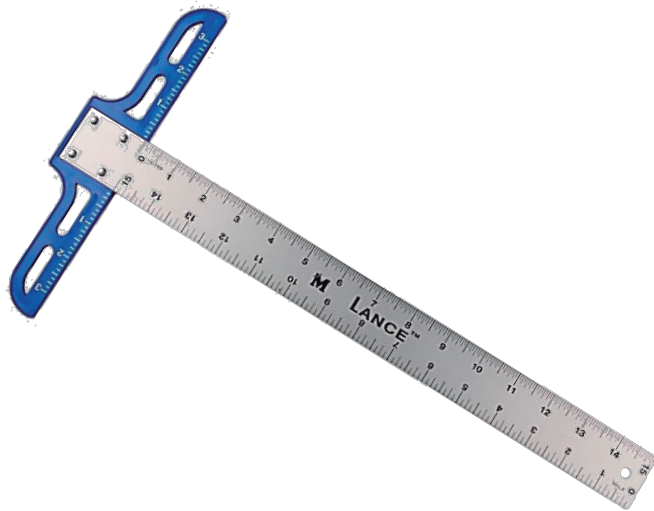
Heavy Duty T-Squares
(Green Head 16")

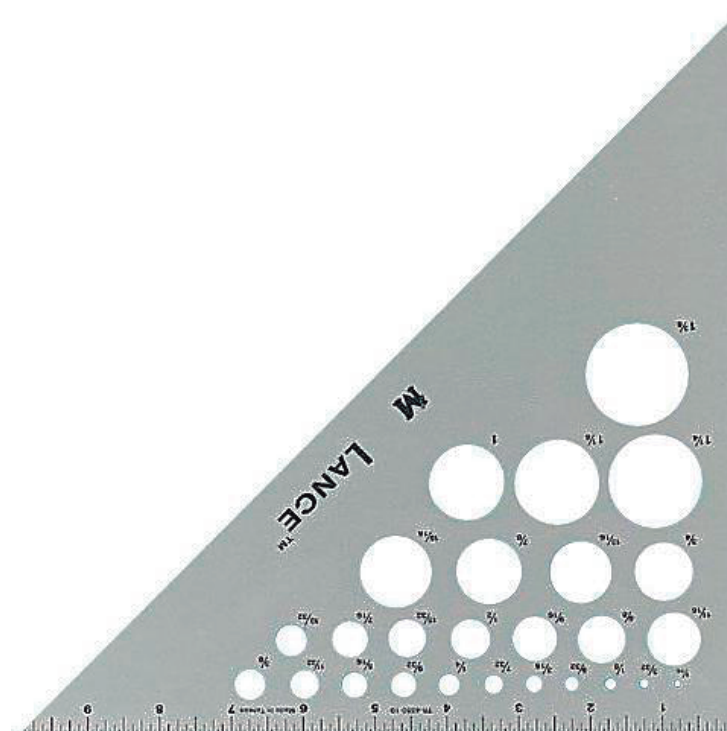| Product No.	Length-Width	Calibrations
HT-024-LAN	24" x 2"	1/8", 1/16"
HT-030-LAN	30" x 2"	1/8", 1/16"
HT-036-LAN	36" x 2"	1/8", 1/16"
HT-042-LAN	42" x 2"	1/8", 1/16"
HT-048-LAN	48" x 2"	1/8", 1/16"
HT-060-LAN	60" x 2"	1/8", 1/16"
HT-072-LAN	72" x 2"	1/8", 1/16"

** Limited quantities available
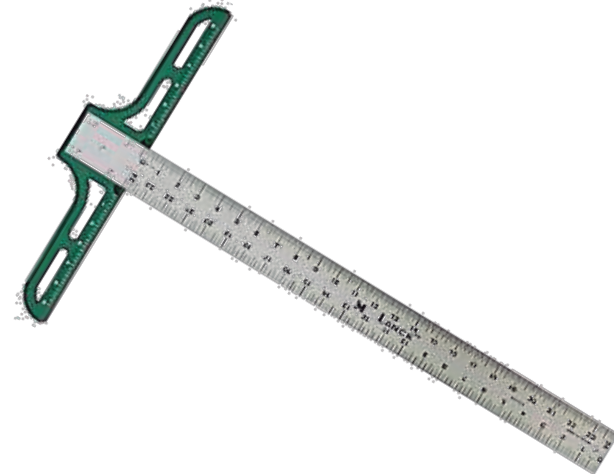
Lance® Triangles

30°/60°/90° Triangles

Product No.	Length	Calibrations
TR-3060-8-LAN	8"	1/16"
TR-3060-10-LAN	10"	1/16"
TR-3060-12-LAN	12"	1/16"
TR-3060-14-LAN	14"	1/16"
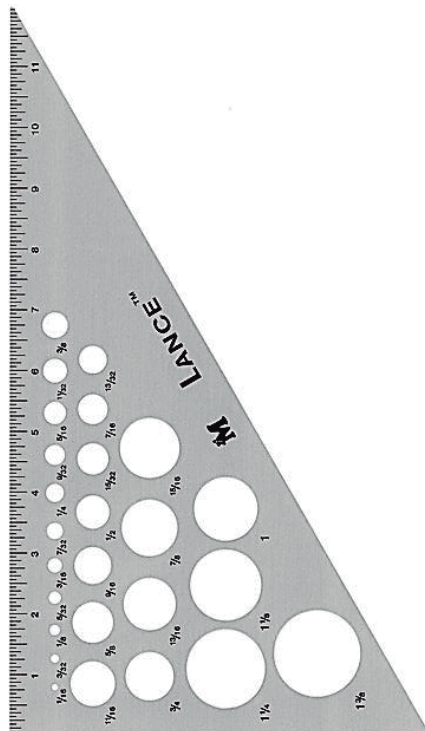
45°/ 45°/90° Triangles

Product No.	Length	Calibrations
TR-4590-6-LAN	6"	1/16"
TR-4590-8-LAN	8"	1/16"
TR-4590-10-LAN	10"	1/16"
TR-4590-12-LAN	12"	1/16"

Lance® Straight Edge Rulers

Calibrated in
Inches

Product No.	Length- Width	Calibrations
SE-006-LAN	6" x 3/4"	1/16", 1/32"
Compressed calibration is necessary on smaller rulers (e.g. SE -006)		
SE-012-LAN	12" x 1"	1/8", 1/16"
SE-015-LAN	15" x 1-1/4"	1/8", 1/16"
SE-018-LAN	18" x 1-1/4"	1/8", 1/16"
SE-024-LAN	24" x 1-1/4"	1/8", 1/16"
SE-036-LAN	36" x 2"	1/8", 1/16"
SE-048-LAN	48" x 2"	1/8", 1/16"
SE-060-LAN	60" x 2"	1/8", 1/16"
SE-072-LAN	72" x 2"	1/8", 1/16"
SE-096-LAN	96" x 2"	1/8", 1/16"
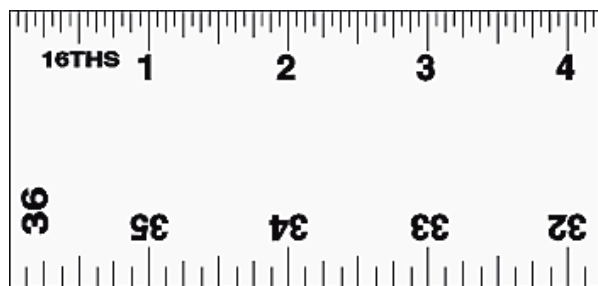
Calibrated in
Inches / Centimeters

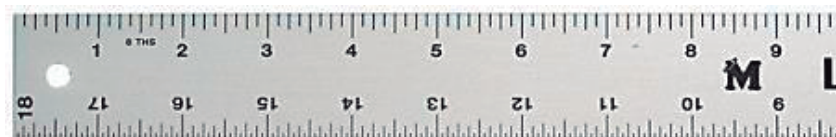| Product No.	Length-Width	Calibrations
SE-015EM-LAN	15 cm x 1.91 cm	1/32", cm
SE-030EM-LAN	30 cm x 2.54 cm	1/16", cm
SE-060EM-LAN	60 cm x 3.49 cm	1/16", cm
SE-150EM-LAN	150 cm x 3.81 cm	1/16", cm
SE-200EM-LAN	200 cm x 3.81 cm	1/16", cm
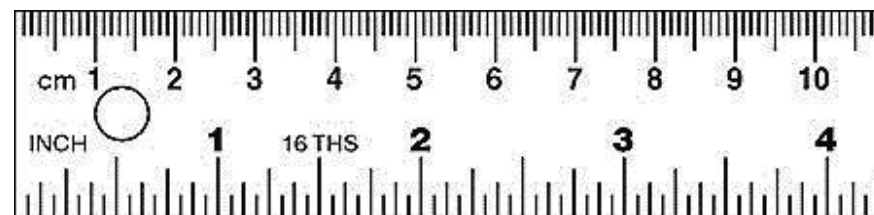
Lance® Straight Edge Rulers (continued)

Calibrated in
Centimeters

Product No.	Length- Width	Calibrations
SE-030M-LAN	30 cm x 3.8 cm	mm, cm
SE-045M-LAN	45 cm x 3.8 cm	mm, cm
SE-060M-LAN	60 cm x 3.8 cm	mm, cm
SE-100M-LAN	100 cm x 3.8 cm	mm, cm

Cork-Backed Inking Rulers
Calibrated in Inches

Product No.	Length-Width	Calibrations
CB-006-LAN	6" x 3/4"	1/16", 1/32"
Compressed calibration is necessary on smaller rulers (e.g. SE -006)		
CB-012-LAN	12" x 1"	1/8", 1/16"
CB-015-LAN	15" x 1-1/2"	1/8", 1/16"
CB-018-LAN	18" x 1-1/2"	1/8", 1/16"
CB-024-LAN	24" x 1-1/2"	1/8", 1/16"
CB-036-LAN	36" x 2"	1/8", 1/16"
CB-048-LAN	48" x 2"	1/8", 1/16"

Lance® L-Square

Standard L-Square
Calibrated in Inches or Centimeters

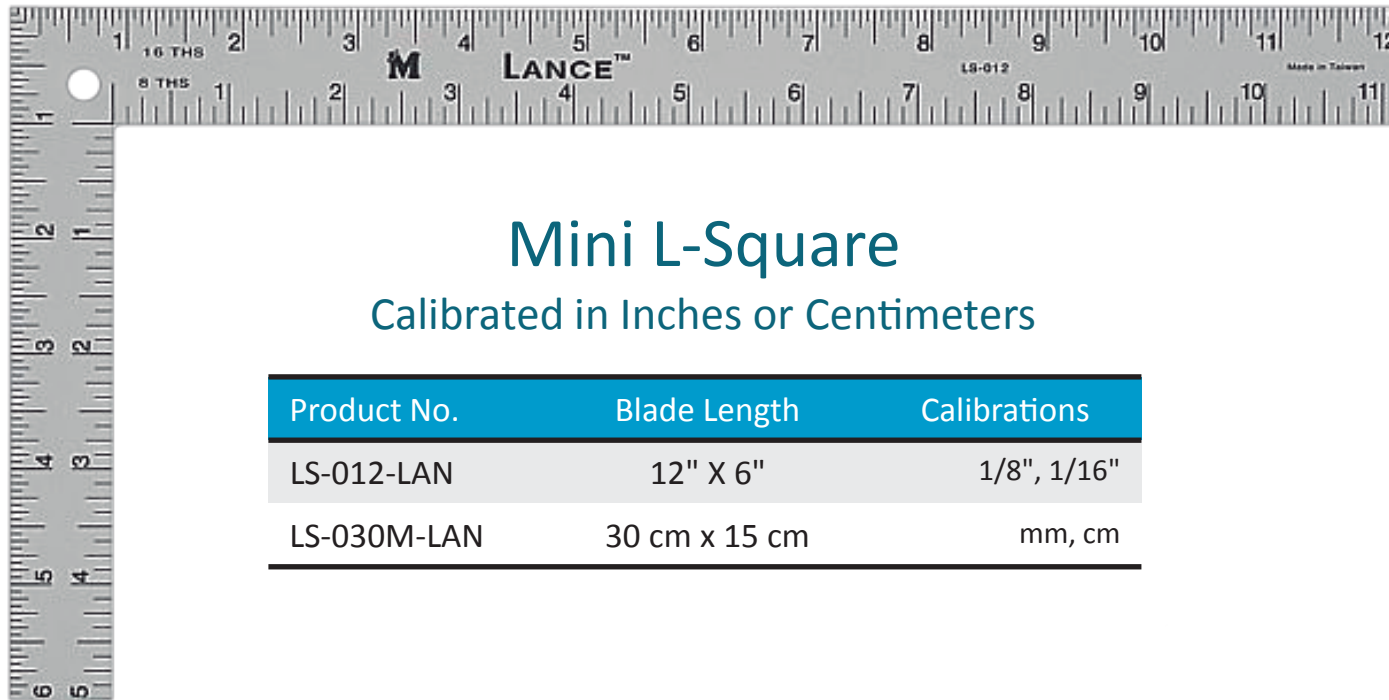| Product No.	Blade Length	Calibrations
LS-024-LAN	24" X 14"	1/8", 1/24", 1/32", 1/2", 1/4ths, 1/8ths, 16ths, 2/3rds, 6ths, 12ths
LS-615M-LAN	60 cm x 35 cm	Centimeters in mms, 3rds, 2/3rds, 6ths, 12ths, 24ths, 1/2s, 4ths, 8ths, 16ths, 32nds
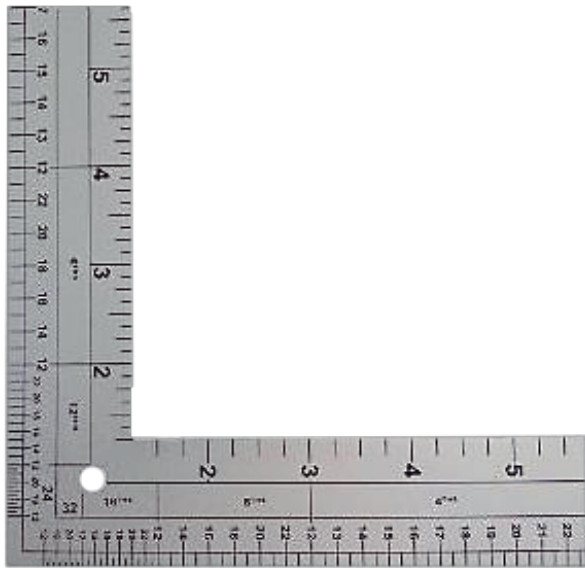
Half-Size L-Squares
Calibrated in Inches or Centimeters

Product No.	Blade Length	Calibrations
LS-012-05-LAN	12" x 6"	1/8", 1/24", 1/32", 1/2", 1/4ths, 1/8ths, 16ths, 2/3rds, 6ths, 12ths
LS-030-05M-LAN	30 cm X 16 cm	Centimeters in mms, 3rds, 2/3rds, 6ths, 12ths, 24ths, 1/2s, 4ths, 8ths, 16ths, 32nds
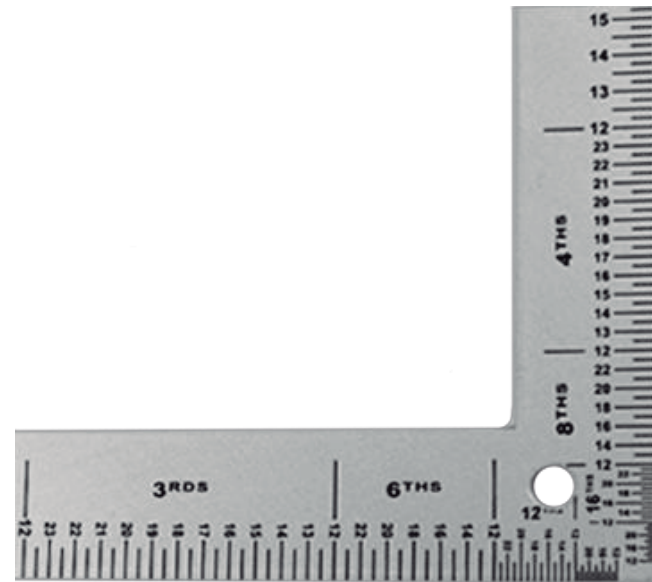
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Lance® L-Square

Mini L-Square
Calibrated in Inches or Centimeters

Product No.	Blade Length	Calibrations
LS-012-LAN	12" X 6"	1/8", 1/16"
LS-030M-LAN	30 cm x 15 cm	mm, cm

Lance® Black Engraved Rulers

Calibrated in Inches 16ths - Top Edge

Left to Right

Product No.	Size
TLR-012B-LAN	12"
TLR-024B-LAN	24"
TLR-036B-LAN	36"
TLR-048B-LAN	48"
TLR-060B-LAN	60"
TLR-072B-LAN	72"
TLR-096B-LAN	96"
TLR-144B-LAN	144"

Right to Left

Product No.	Size
TRL-012B-LAN	12"
TRL-024B-LAN	24"
TRL-036B-LAN	36"
TRL-048B-LAN	48"
TRL-060B-LAN	60"
TRL-072B-LAN	72"
TRL-096B-LAN	96"
TRL-144B-LAN	144"

Calibrated in Inches 16ths – Bottom Edge

Left to Right

Product No.	Size
BLR-012B-LAN	12"
BLR-024B-LAN	24"
BLR-036B-LAN	36"
BLR-048B-LAN	48"
BLR-060B-LAN	60"
BLR-072B-LAN	72"
BLR-096B-LAN	96"
BLR-144B-LAN	144"

Right to Left

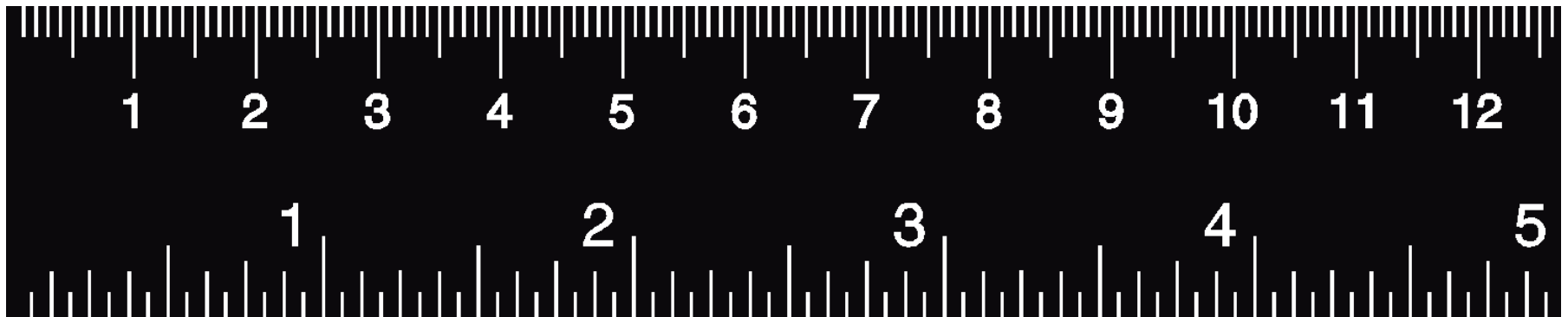| Product No.	Size
BRL-012B-LAN	12"
BRL-024B-LAN	24"
BRL-036B-LAN	36"
BRL-048B-LAN	48"
BRL-060B-LAN	60"
BRL-072B-LAN	72"
BRL-096B-LAN	96"
BRL-144B-LAN	144"
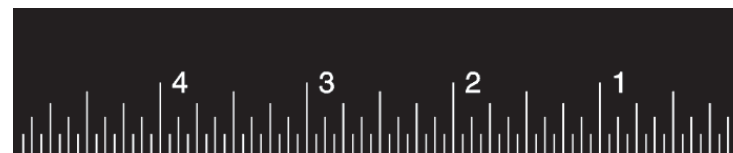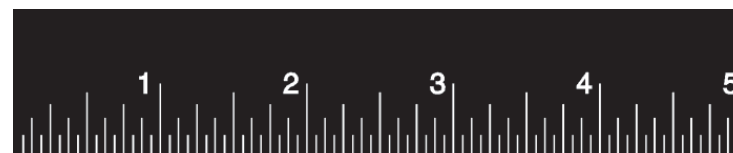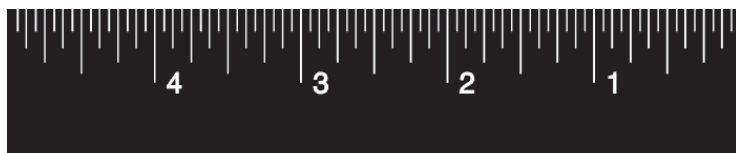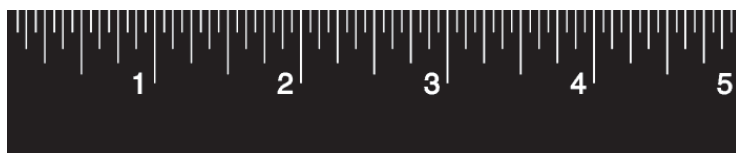
Lance® Black Engraved Rulers

Calibrated in Centimeters & Millimeters – Top Edge
Calibrated in Inches & 16ths – Bottom Edge

Product No.	Size Inches / MM	
TBLR-20EM-LAN	20"	50.8 cm
TBLR-40EM-LAN	40"	101.6 cm
TBLR-60EM-LAN	60"	152.4 cm
TBLR-80EM-LAN	80"	203.2 cm
TBLR-100EM-LAN	100"	254.0 cm

Lance® Black Engraved Rulers

Calibrated in Centimeters & Millimeters

Top / Left to Right

Product No.	Size
TLR-050B-M-LAN	50 cm
TLR-100B-M-LAN	100 cm
TLR-150B-M-LAN	150 cm
TLR-200B-M-LAN	200 cm

Top / Right to Left

Product No.	Size
TRL-050B-M-LAN	50 cm
TRL-100B-M-LAN	100 cm
TRL-150B-M-LAN	150 cm
TRL-200B-M-LAN	200 cm
TRL-210B-M-LAN	210 cm
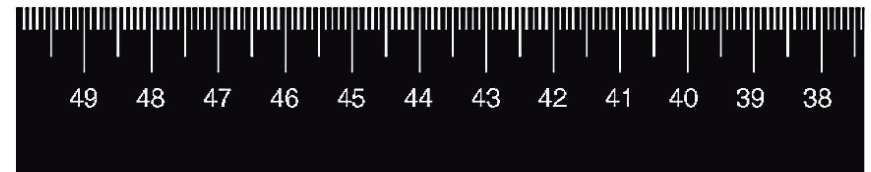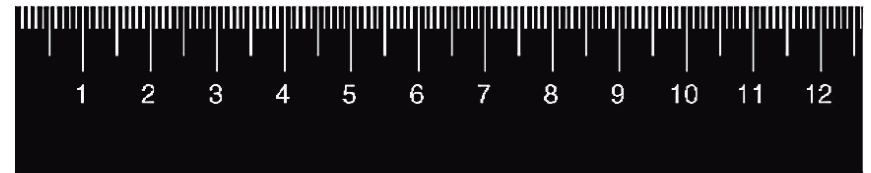
Bottom / Left to Right

Product No.	Size
BLR-050B-M-LAN	50 cm
BLR-100B-M-LAN	100 cm
BLR-150B-M-LAN	150 cm
BLR-200B-M-LAN	200 cm

Bottom / Right to Left

Product No.	Size
BRL-050B-M-LAN	50 cm
BRL-100B-M-LAN	100 cm
BRL-150B-M-LAN	150 cm
BRL-200B-M-LAN	200 cm
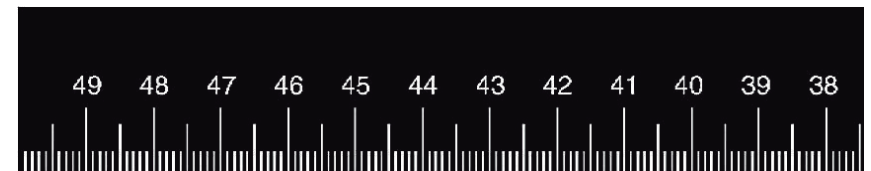
Lance® Specialty Rulers

Cuff Rulers

Product No.	Length - Width	Calibrations
CR-125-LAN	12" X 1-1/4"	1/8", 1/16"
CR-150-LAN	12" X 1-1/2"	1/8", 1/16"
CR-175-LAN	12" X 1-3/4"	1/8", 1/16"
CR-200-LAN	12" X 2"	1/8", 1/16"
CR-225-LAN	12" X 2-1/4"	1/8", 1/16"

Center Finding Rulers

Product No.	Length - Width	Calibrations
CF-012-LAN	12" X 1 3/4"	1/16", 1/32"
CF-018-LAN	18" X 1 3/4"	1/16", 1/32"
CF-024-LAN	24" X 1 3/4"	1/16", 1/32"
CF-036-LAN	36" X 1 3/4"	1/16", 1/32"
CF-048-LAN	48" X 1 3/4"	1/16", 1/32"
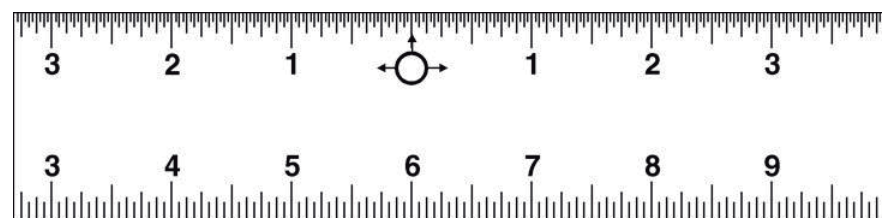
Agate – Pica Rulers

Product No.	Length - Width	Calibrations
AP-012-LAN	12" X 1"	1/16", picas, agates
AP-018-LAN	18" X 1 1/2"	1/16", picas, agates
AP-024-LAN	24" X 1 1/2"	1/16", picas, agates
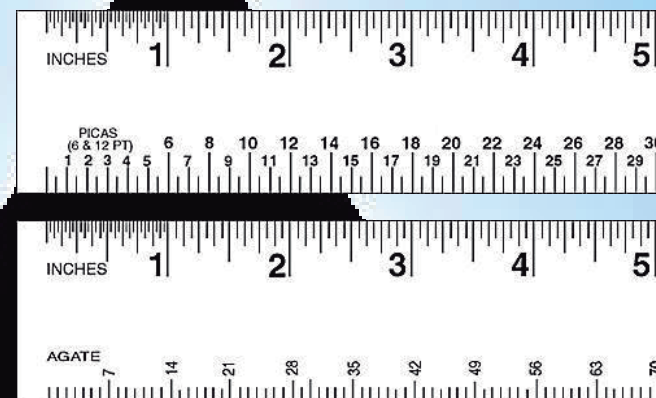
Ruler Cross Reference

Lance® #	Fairgate #	Size	Ruler Type	Special Information
AP-012-LAN	32-112	12" x 1"	Agate / Pica Rule	
AP-018-LAN	32-118	18" x 1.5"	Agate / Pica Rule	
AP-024-LAN	32-124	24" x 1.5"	Agate / Pica Rule	
BLR-012B-LAN	82-112	12"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-024B-LAN	82-124	24"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-036B-LAN	82-136	36"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-048B-LAN	82-148	48"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-050B-M-LAN	82-205	50cm	Bottom Left / Right Black Engraved Aluminum Rule	Metric
BLR-060B-LAN	82-160	60"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-072B-LAN	82-172	72"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-096B-LAN	82-196	96"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-100B-M-LAN	82-210	100cm	Bottom Left / Right Black Engraved Aluminum Rule	Metric
BLR-144B-LAN	82-144	144"	Bottom Left / Right Black Engraved Aluminum Rule	
BLR-150B-M-LAN	82-215	150cm	Bottom Left / Right Black Engraved Aluminum Rule	Metric
BLR-200B-M-LAN	82-220	200cm	Bottom Left / Right Black Engraved Aluminum Rule	Metric
BRL-012B-LAN	83-112	12"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-024B-LAN	83-124	24"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-036B-LAN	83-136	36"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-048B-LAN	83-148	48"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-050B-M-LAN	83-205	50cm	Bottom Right / Left Black Engraved Aluminum Rule	Metric
BRL-060B-LAN	83-160	60"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-072B-LAN	83-172	72"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-096B-LAN	83-196	96"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-100B-M-LAN	83-210	100cm	Bottom Right / Left Black Engraved Aluminum Rule	Metric
BRL-144B-LAN	83-144	144"	Bottom Right / Left Black Engraved Aluminum Rule	
BRL-150B-M-LAN	83-215	150cm	Bottom Right / Left Black Engraved Aluminum Rule	Metric
BRL-200B-M-LAN	83-220	200cm	Bottom Right / Left Black Engraved Aluminum Rule	Metric

Ruler Cross Reference

Lance® #	Fairgate #	Size	Ruler Type	Special Information
CB-006-LAN	20-106	6" x 3/4"	Straight Edge Cork Back	
CB-012-LAN	20-112	12" x 1"	Straight Edge Cork Back	
CB-015-LAN	20-115	15" x 1.5"	Straight Edge Cork Back	
CB-018-LAN	20-118	18" x 1.5"	Straight Edge Cork Back	
CB-024-LAN	20-124	24" x 1.5"	Straight Edge Cork Back	
CB-036-LAN	20-136	36" x 2"	Straight Edge Cork Back	
CB-048-LAN	20-148	48" x 2"	Straight Edge Cork Back	
CF-012-LAN	23-112	12" x 1.75"	Center Finding Rule	
CF-018-LAN	23-118	18" x 1.75"	Center Finding Rule	
CF-024-LAN	23-124	24" x 1.75"	Center Finding Rule	
CF-036-LAN	23-136	36" x 1.75"	Center Finding Rule	
CF-048-LAN	23-148	48" x 1.75"	Center Finding Rule	
CR-125-LAN	14-100	12" x 1.25"	Cuff Rule Aluminum	
CR-150-LAN	14-101	12" x 1.5"	Cuff Rule Aluminum	
CR-175-LAN	14-111	12" x 1.75"	Cuff Rule Aluminum	
CR-200-LAN	14-102	12" x 2"	Cuff Rule Aluminum	
CR-225-LAN	14-112	12" x 2.25"	Cuff Rule Aluminum	
FC-012-LAN	12-112	12"	French Curve Aluminum	
FC-024-LAN	12-124	24"	French Curve Aluminum	
FC-032M-LAN	12-232	32cm	French Curve Aluminum	Metric
FC-060M-LAN	12-260	60cm	French Curve Aluminum	Metric
HC-024-LAN	11-124	24"	Hip Curve Aluminum Rule	
HC-060M-LAN	11-260	60cm	Hip Curve Aluminum Rule	Metric
HT-024-LAN	60-124	24"	Heavy Duty T-Square	
HT-030-LAN	60-130	30"	Heavy Duty T-Square	
HT-036-LAN	60-136	36"	Heavy Duty T-Square	
HT-042-LAN	60-142	42"	Heavy Duty T-Square	

Ruler Cross Reference

Lance® #	Fairgate #	Size	Ruler Type	Special Information
HT-048-LAN	60-148	48"	Heavy Duty T-Square	
HT-060-LAN	60-160	60"	Heavy Duty T-Square	
HT-072-LAN	60-172	72"	Heavy Duty T-Square	
LS-012-05-LAN	50-148	12" x 6"	Mini L-Square Aluminum	
LS-012-LAN	50-147	12" x 6.5"	Mini L-Square Aluminum	
LS-024-LAN	50-124	24" x 14"	L-Square Aluminum	
LS-030-05M-LAN	50-247	30cm x 150mm	Half Size L-Square	Metric
LS-030M-LAN	50-248	30cm x 15cm	Mini L-Square Aluminum	Metric
LS-615M-LAN	50-235	615 mm x 355 mm	L-square Aluminum	Metric
SE-006-LAN	20-106	6" x 3/4"	Straight Edge Aluminum Rule	
SE-012-LAN	20-112	12" x 1"	Straight Edge Aluminum Rule	
SE-015EM-LAN	20-115	15 cm x 1.91 cm	Straight Edge Aluminum Rule	Metric / English
SE-015-LAN	20-315	15" x 1.25"	Straight Edge Aluminum Rule	
SE-018-LAN	20-118	18" x 1.25"	Straight Edge Aluminum Rule	
SE-024-LAN	20-124	24" x 1.25"	Straight Edge Aluminum Rule	
SE-030EM-LAN	20-330	30 cm x 2.54 cm	Straight Edge Aluminum Rule	Metric / English
SE-030M-LAN	21-230	30 cm x 35 mm	Straight Edge Aluminum Rule	MM / CM
SE-036-LAN	20-136	36" x 2"	Straight Edge Aluminum Rule	
SE-045M-LAN	20-345	45 cm x 35 mm	Straight Edge Aluminum Rule	Metric / English
SE-048-LAN	20-148	48" x 2"	Straight Edge Aluminum Rule	
SE-060EM-LAN	20-360	60 cm x 35 cm	Straight Edge Aluminum Rule	Metric / English
SE-060-LAN	20-160	60" x 2"	Straight Edge Aluminum Rule	
SE-060M-LAN	21-260	60 cm x 35 mm	Straight Edge Aluminum Rule	MM /CM
SE-072-LAN	20-172	72" x 2"	Straight Edge Aluminum Rule	
SE-096-LAN	20-196	96" x 2"	Straight Edge Aluminum Rule	
SE-100M-LAN	20-310	1 meter x 35 mm	Straight Edge Aluminum Rule	MM / CM
SE-150EM-LAN	20-350	150 cm x 3.81 cm	Straight Edge Aluminum Rule	

Ruler Cross Reference

Lance® #	Fairgate #	Size	Ruler Type	Special Information
SE-200EM-LAN	20-320	200 cm x 3.81 cm	Straight Edge Aluminum Rule	Metric
T-012-LAN	63-112	12"	Standard T-Square	
T-015-LAN	63-115	15"	Standard T-Square	
T-018-LAN	63-118	18"	Standard T-Square	
T-030-LAN	63-130	30"	Standard T-Square	
TBLR-100EM-LAN	80-300	100"	Top / Bottom Left / Right Black Engrave Rule	Metric / English
TBLR-20EM-LAN	80-320	20"	Top / Bottom Left / Right Black Engrave Rule	Metric / English
TBLR-40EM-LAN	80-340	40"	Top / Bottom Left / Right Black Engrave Rule	Metric / English
TBLR-60EM-LAN	80-360	60"	Top / Bottom Left / Right Black Engrave Rule	Metric / English
TBLR-80EM-LAN	80-380	80"	Top / Bottom Left / Right Black Engrave Rule	Metric / English
TLR-012B-LAN	80-112	12"	Top Left / Right Black Engrave Rule	
TLR-024B-LAN	80-124	24"	Top Left / Right Black Engrave Rule	
TLR-036B-LAN	80-136	36"	Top Left / Right Black Engrave Rule	
TLR-048B-LAN	80-148	48"	Top Left / Right Black Engrave Rule	
TLR-050B-M-LAN	80-205	50 cm	Top Left / Right Black Engrave Rule	Metric
TLR-060B-LAN	80-160	60"	Top Left / Right Black Engrave Rule	
TLR-072B-LAN	80-172	72"	Top Left / Right Black Engrave Rule	
TLR-096B-LAN	80-196	96"	Top Left / Right Black Engrave Rule	
TLR-100B-M-LAN	80-210	100 cm	Top Left / Right Black Engrave Rule	Metric
TLR-144B-LAN	80-144	144"	Top Left / Right Black Engrave Rule	
TLR-150B-M-LAN	80-215	150 cm	Top Left / Right Black Engrave Rule	Metric
TLR-200B-M-LAN	80-220	200 cm	Top Left / Right Black Engrave Rule	Metric
TR-3060-10-LAN	70-110	10"	30/60 Template Triangle	
TR-3060-12-LAN	70-112	12"	30/60 Template Triangle	
TR-3060-14-LAN	70-114	14"	30/60 Template Triangle	
TR-3060-8-LAN	70-108	8"	30/60 Template Triangle	
TR-4590-10-LAN	71-110	10"	45/90 Template Triangle	

Ruler Cross Reference

Lance® #	Fairgate #	Size	Ruler Type	Special Information
TR-4590-12-LAN	71-112	12"	45/90 Template Triangles	
TR-4590-6-LAN	71-106	6"	45/90 Template Triangles	
TR-4590-8-LAN	71-108	8"	45/90 Template Triangles	
TRL-012B-LAN	81-112	12"	Top Right / Left Black Engraved Rule	
TRL-024B-LAN	81-124	24"	Top Right / Left Black Engraved Rule	
TRL-036B-LAN	81-136	36"	Top Right / Left Black Engraved Rule	
TRL-048B-LAN	81-148	48"	Top Right / Left Black Engraved Rule	
TRL-050B-M-LAN	81-205	50 cm	Top Right / Left Black Engraved Rule	Metric
TRL-060B-LAN	81-160	60"	Top Right / Left Black Engraved Rule	
TRL-072B-LAN	81-172	72"	Top Right / Left Black Engraved Rule	
TRL-096B-LAN	81-196	96"	Top Right / Left Black Engraved Rule	
TRL-100B-M-LAN	81-210	100 cm	Top Right / Left Black Engraved Rule	Metric
TRL-144B-LAN	81-144	144"	Top Right / Left Black Engraved Rule	
TRL-150B-M-LAN	81-215	150 cm	Top Right / Left Black Engraved Rule	Metric
TRL-200B-M-LAN	81-220	200 cm	Top Right / Left Black Engraved Rule	Metric
TRL-210B-M-LAN	Not Available	210 cm	Top Right / Left Black Engraved Rule	Metric

MAQPLAN