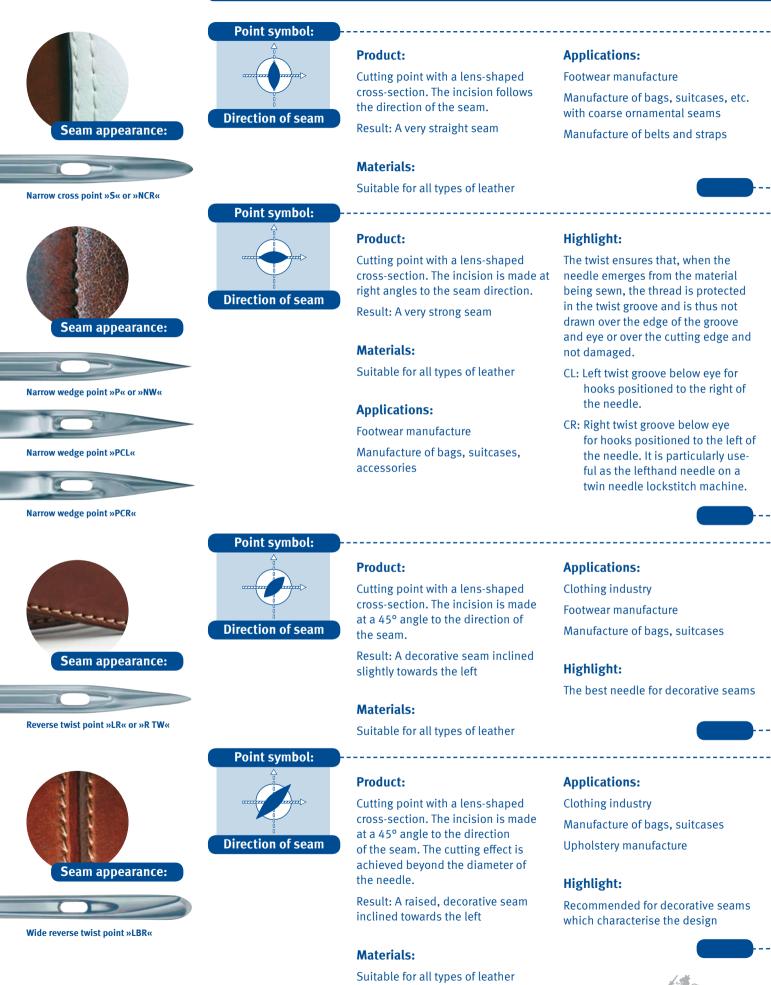
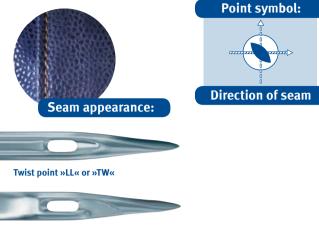


18

250



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Twist point »LLCR«

Product:

Cutting point with a lens-shaped cross-section. The incision is made at a 135° angle to the direction of the seam.

Result: A slightly recessed, straight seam

Materials:

Suitable for all types of leather

Applications:

LL point:

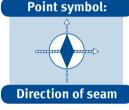
- Footwear manufacture
- Manufacture of bags, suitcases

Particularly suitable for shoe repairs LLCR point:

For the manufacture of footwear, in order to achieve the same seam appearance with the hook positioned to the left of the needle as achieved using the LR point in conjunction with a hook positioned to the right of the needle.



Diamond point »DI« or »DIA«



Product:

Cutting point with a rhombic crosssection. The centred incision is made in the direction of the seam. The seam appearance corresponds to that achieved with the narrow cross point (S point); however, the four cutting edges of the DI point allow heavy, hard material to be pierced more easily.

Result: A very straight, recessed seam

Materials:

Suitable for heavy, dry, hard leather

Applications:

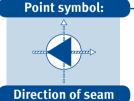
Footwear manufacture Manufacture of bags, suitcases

Highlight:

Absolutely precise and tidy seam appearance Correct stitch appearance No needle deflection



Triangular point »D« or »TRI«



Product:

Cutting point with a triangular cross-section.

Result: A straight seam

Materials: Suitable for hard, dry leather

Applications:

Manufacture of footwear, especially for heavy footwear (e.g. high-leg boots)

Stitching upholstery

Stitching plastics, cardboard, heavy pressboard, paper

Highlight:

The best cutting effect of all cutting points







Choosing the point form: The point form is determined	Stitching technique	Seam appearance	Point form		
by the stitching technique and the desired seam appearance. Needle threading from left to right.	Very strong seams Fine ornamental seams	P/PCL/PCR	 P Narrow wedge point PCL Narrow wedge point with left twist groove below eye PCR Narrow wedge point with right twist groove below eye 		
	Normal seams Coarse ornamental seams Very straight seams	S DI	S Narrow cross pointDI Diamond point		
	Decorative seams (ornamen- tal seams/normal seams)	LR VR LBR	LRReverse twist pointVRReverse twist spear pointLBRWide reverse twist point		
	Very straight seams		LL Twist point		
	Coarse/normal seams Cross seams		D Triangular pointDH Half triangular point		
	Embroidery Special features, e.g. appliqué	R SD1	R Normal round pointSD1 Round point with small triangular tip		
	Multidirectional sewing	SD1	SD1 Round point with small triangular tip		
	Material combinations, composites: – Garments	R SD1	R Normal round pointSD1 Round point with small triangular tip		
	- Industrial sector		D Triangular pointDH Half triangular point		



The right needle size:

The stitching technique and the choice of thread determine the needle size.

Two essential criteria must be taken into account:

1. Thread/seam appearance The needle size is determined

by the thickness of the thread and the desired seam appearance.

2. Material and material properties

The harder and thicker the material, the thicker the needle must be.

	Continuous filament								
е	Polyamide 6.6 (Nylon)				Polyester				
	Stitching technique	No*	Yarn size tex*	Nee NM	edle size SIZE	No*	Yarn size tex*	Nee NM	edle size SIZE
H H 	Coarse decorative seams	4 5 7 8/9 10/11 12	750 600 429 375/333 300/273 250	280-330 250-300 230-250 200-250 160-230 160-230	28-30 27-29 26-27 25-27 23-26 23-26	4 5 6 7 8/9 10/11 12	750 600 500 429 375/333 300/273 250	250-300 250-280 230-250 200-230 180-200 140-180 140-180	27-29 27-28 26-27 25-26 24-25 22-24 22-24
	Coarse seams	13 15 20 30	231 200 150 100	160-200 160-180 120-160 100-140	23-25 23-24 19-23 16-22	13/14 15 18 20 24/25 30	231/214 200 167 150 125/120 100	130-160 125-140 120-130 110-130 100-110 100-110	21-23 20-22 19-21 18-21 16-18 16-18
	Medium seams	40 60 80-90	75 50 38/33	100-120 80-100 70-90	16-19 12-16 10-14	40 50 60 70 80/90	75 60 50 43 38/33	100-110 90-100 80-90 75-80 70-80	16-18 14-16 12-14 11-12 10-12
	Stay seams (heel seams)	40 60 80/90	75 50 38/33	100-120 80-100 70-90	16-19 12-16 10-14	40 60 80/90 100	75 50 38/33 30	100-110 80-90 70-80 65-70	16-18 12-14 10-12 9-10

SCHMETZ tip:

These tables only include the most common threads. Cotton threads, sewing silk and embroidery yarn have been omitted for the sake of clarity.

If you have specific questions concerning these threads, please ask your thread manufacturer.

Cole spun									
Polyester/Cotton					Polyester/Polyester				
Stitching		Yarn size		Needle size		Yarn size		Needle size	
technique	No*	tex*	NM	SIZE	No*	tex*	NM	SIZE	
Coarse decorative seams	4 5 6 8 12	750 600 500 375 250	230-280 180-250 180-200 180-200 160-180	26-28 24-27 24-25 24-25 23-24	8 12	375 250	160-200 140-180	23-25 22-24	
Coarse seams	15 20 24 25 28 30 35/36	200 150 125 120 107 100 86/83	140-160 140-160 130-160 120-140 120-140 120-140 110-130	22-23 22-23 21-23 19-22 19-22 19-22 18-21	20 25 30 35/36	150 120 100 86/83	120-160 110-140 110-130 100-120	19-23 18-22 18-21 16-19	
Medium seams	40 50 60/75 80 90 100	75 60 50/40 38 33 30	100-120 100-110 90-100 90-100 80-90 80-90	16-19 16-18 14-16 14-16 12-14 12-14	40 50 60/75 80 100	75 60 50/40 38 30	100-110 90-100 90-100 80-90 70-90	16-18 14-16 14-16 12-14 10-14	
Stay seams (heel seams)	40 60/75 80	75 50/40 38	100-120 90-100 90-100	16-19 14-16 14-16	40 60/75 80	75 50/40 38	100-110 90-100 80-90	16-18 14-16 12-14	

Core spun



* No = Label number

tex = Unit of size in g/1000 m (e.g. 75 tex = 1000 m yarn weigh 75 g)

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