SCHMETZ

ABC Pocket Guide

Home Sewing Machine Needles 130/705 H

2024 Edition

WELCOME

The history of the SCHMETZ family in the Aachen region of Germany can be traced back to the 18th century. Ferdinand Schmetz founded the SCHMETZ needle factory in Herzogenrath, Germany in 1851. With more than 170 years of experience, SCHMETZ is the leading global provider of needle systems for both the home sewing industry and industrial textile products.

The most used needle system for home sewing machines is 130/705 H (H=Hohlkehle in German, means with scarf). All needles of system 130/705 H have a flattened shank for perfect positioning of the needle in the needle bar. Needles differ in size, point shape, and eye.

Whether fashion sewing, piecing, quilting, or creating artistic stitching, SCHMETZ has the ideal needle for every home sewing project, ensuring you achieve the best results.

Sew SCHMETZ!

On the cover: What Needle Am I?
Visit our home page.

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#schmetzneedles **#sewschmetz**

SCHMETZ RESOURCES

Wondering which needle to use?

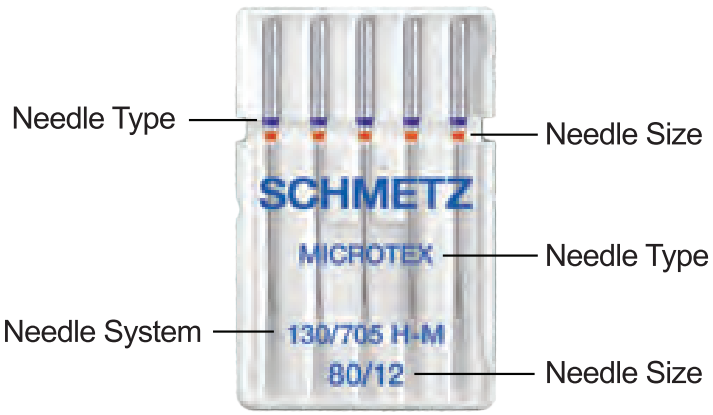
Use the QR Code to access the
web-based SCHMETZ Resource Page!

Download on phone, tablet, and laptop.

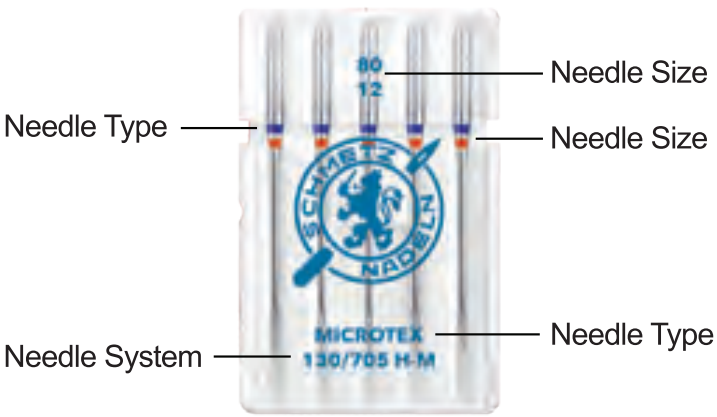
I ♥ SCHMETZ Needles!

READING THE NEEDLE PACK

Current SCHMETZ Pack



New SCHMETZ Pack



Needle Systems

Needles in system 130/705 H have a scarf and flattened shank for perfect positioning in the needle bar in relation to the hook. 15x1 H is a cross reference to 130/705 H.

NEEDLE POINTS

Slim Acute

Slim, acute point shape, useful for accurate stitches on cotton, densely woven, and coated materials. It creates an exact seam appearance with straight stitches and helps to reduce seam puckering.

- Microtex

Slim, Slightly Rounded

Slim taper to the slightly rounded point allows a smooth and gentle penetration of sensitive fabrics and avoids material damages. Use for piecing and quilting.

- Black Super Fine
- Quilting

Slightly Rounded

Standard point shape for home sewing machines. Assures trouble-free sewing of most materials and many applications.

- Universal
- Double Eye
- ELx705
- Metallic
- Quick Threading
- Topstitch
- Gold Topstitch
- Super NonStick

NEEDLE POINTS

Medium Ball Point (SUK)

Rounder than a light ball point. Use on knitwear and fabric containing Lycra®/ Spandex. Also suitable for medium to heavy denim.

- Embroidery
- Gold Embroidery
- Jeans
- Gold Jeans
- Jersey
- Stretch

Special Point

Has a wing that forms a unique stitch at stitch creation; moves easily through light to medium weight loosely woven fabrics. Popular for heirloom sewing and decorative cutwork.

- Hemstitch

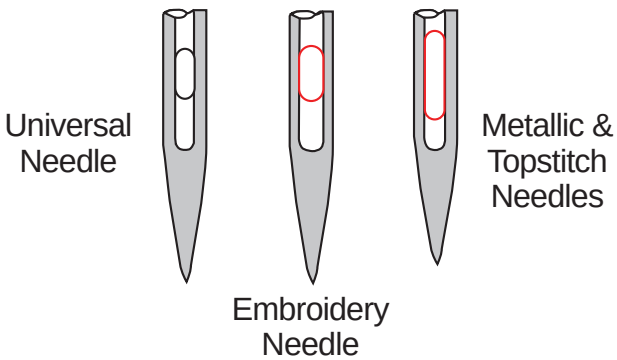
Twist Point (LL)

Creates a stitch slightly inclined towards the left. Do not use on woven or knits.

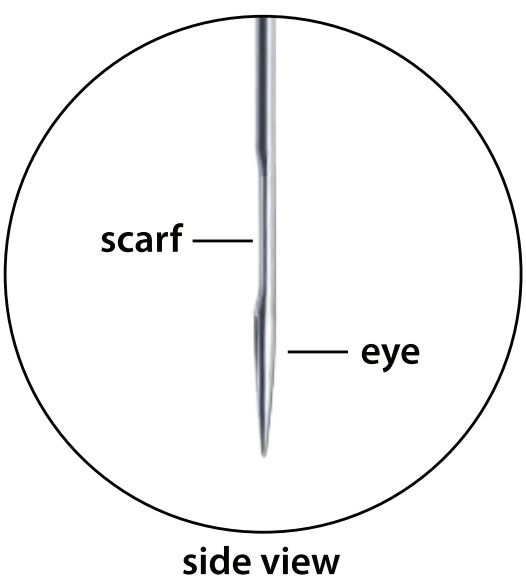
- Leather

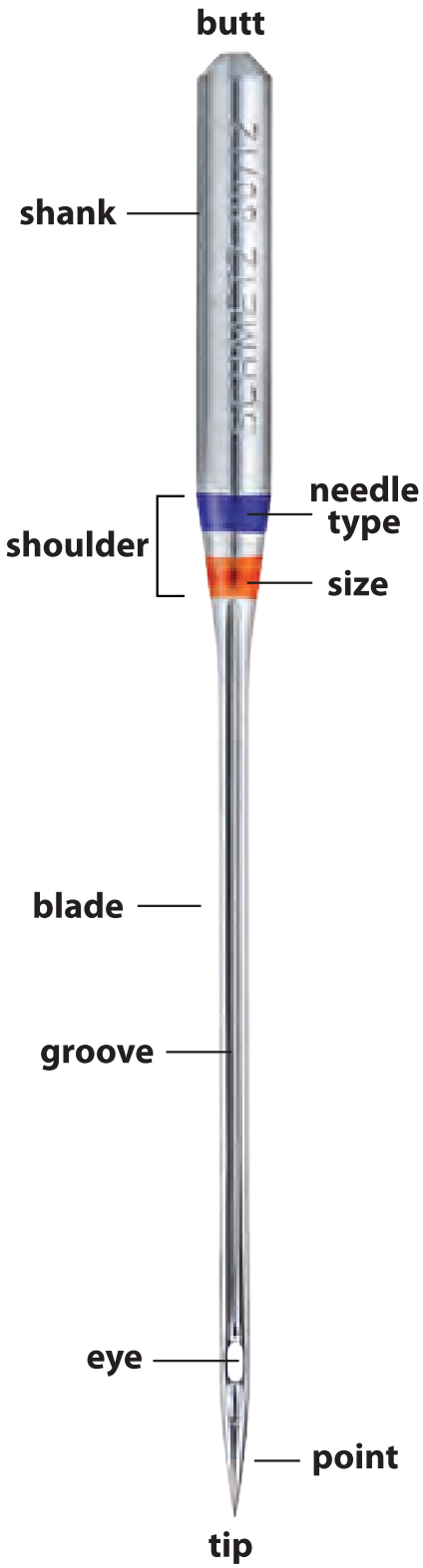
NEEDLE ANATOMY - 130/705 H

Needle Eye Comparison



Not all eyes are the same. Eye shape helps determine needle choice for projects. A larger eye is less stressful on the thread passing through the eye.





130/705 H - NEEDLE ANATOMY

Butt
The beveled end allows easy insertion in the needle bar.

Shank
Home sewing needles have a flat shank, while commercial and industrial needles have round, threaded, notched, or other special shank. Shanks allow perfect positioning of the needle in the sewing machine.

Shoulder
The sloping area transitioning between the shank and blade. SCHMETZ color codes appear on the shoulder.

Needle Type
Upper color band indicates needle type (i.e., Microtex).

Needle Size
Lower color band indicates size (i.e., 80/12).

Blade
Needle size is determined by the blade diameter (i.e., size 80 is .80mm).

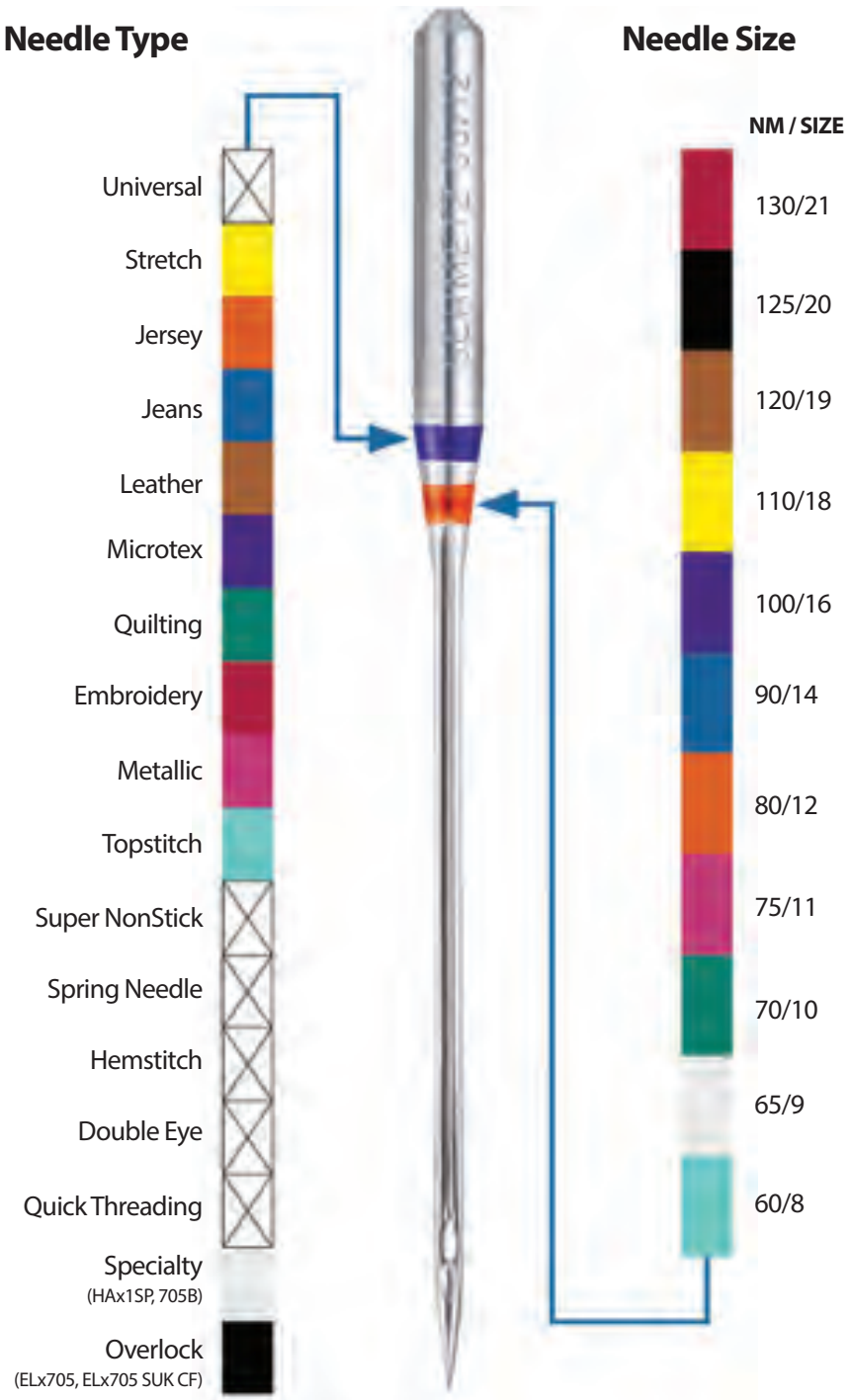
Groove
The groove cradles and guides thread to the eye. The length and size of the groove vary according to needle type.

Scarf
The indentation above the eye that allows the bobbin hook to smoothly grab the thread under the throat plate to create a stitch. The shape and size of the scarf vary according to needle type.

Eye
The hole through which thread passes. The shape and size of the eye vary according to needle type.

Point & Tip
Length, shape and size vary according to needle types.

COLOR CODING



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The color coding on the shoulder of SCHMETZ home sewing machine needles enables the needle type and size to be identified quickly. The top color band indicates the type, the lower color band represents the size.

Change the Needle

Replace your needle regularly!
This is the easiest way to improve stitch quality.

Worn or damaged needles often result in:

- Shredded or broken threads.
- Skipped or uneven stitches.
- Puckering or damaged fabrics.
- Popping or clicking sound during sewing.

UNIVERSAL

SCHMETZ
NADELN
SCHMETZ
Universal Needles
Aiguilles Universal
Agujas Universal
SCHMETZ
UNIVERSAL
130/705 H
70 70 80 80 90
10 10 12 12 14
5
PC/PZ

UNIVERSAL

The SCHMETZ Universal needle is the most popular, all-purpose needle type. The Universal needle is available in the widest range of sizes plus twin and triple.

- Needle System 130/705 H
- Color Code: Size only
- Slightly Rounded Point
- Regular Eye
- Sizes: 60/8, 65/9, 70/10, 75/11, 80/12, 90/14, 100/16, 110/18, 120/19, Assortments, Twin, Triple
- Use with wovens and knits. A great general purpose needle.

BLACK SUPER FINE

BLACK SUPER FINE

The SCHMETZ Black Super Fine needle has a nonstick coating allowing threads to pass through the eye with less stress, while the needle glides through fabric with less resistance. This needle stitches delicate, fine, and lightweight fabrics.

- Needle System 130/705 H-SU XS
- Color Code: None
- Slim, Slightly Rounded Point
- Anti-Adhesive Coating
- Smaller Eye
- Special Scarf
- Size: 70/10
- Resists sticky stabilizers, fusibles, and adhesives. Use with delicate, fine fabrics.

SCHMETZ
Embroidery Needles
Aiguilles à Broder
Agujas para Bordar
SCHMETZ
STICK-NADEL
EMBROIDERY
NEEDLE
130/705 H-E
75 75 75 90 90
11 11 11 14 14
5
PC/PZ

The SCHMETZ Embroidery needle protects fragile threads and guards against excess friction allowing trouble-free embroidery and decorative stitching. Embroidery Twin needles are also available.

- Needle System 130/705 H-E
- Color Code: **Red**
- Medium Ball Point
- Enlarged Eye
- Sizes: 75/11, 90/14, Assortment, Twin
- Use with rayon, polyester, and other specialty embroidery threads.

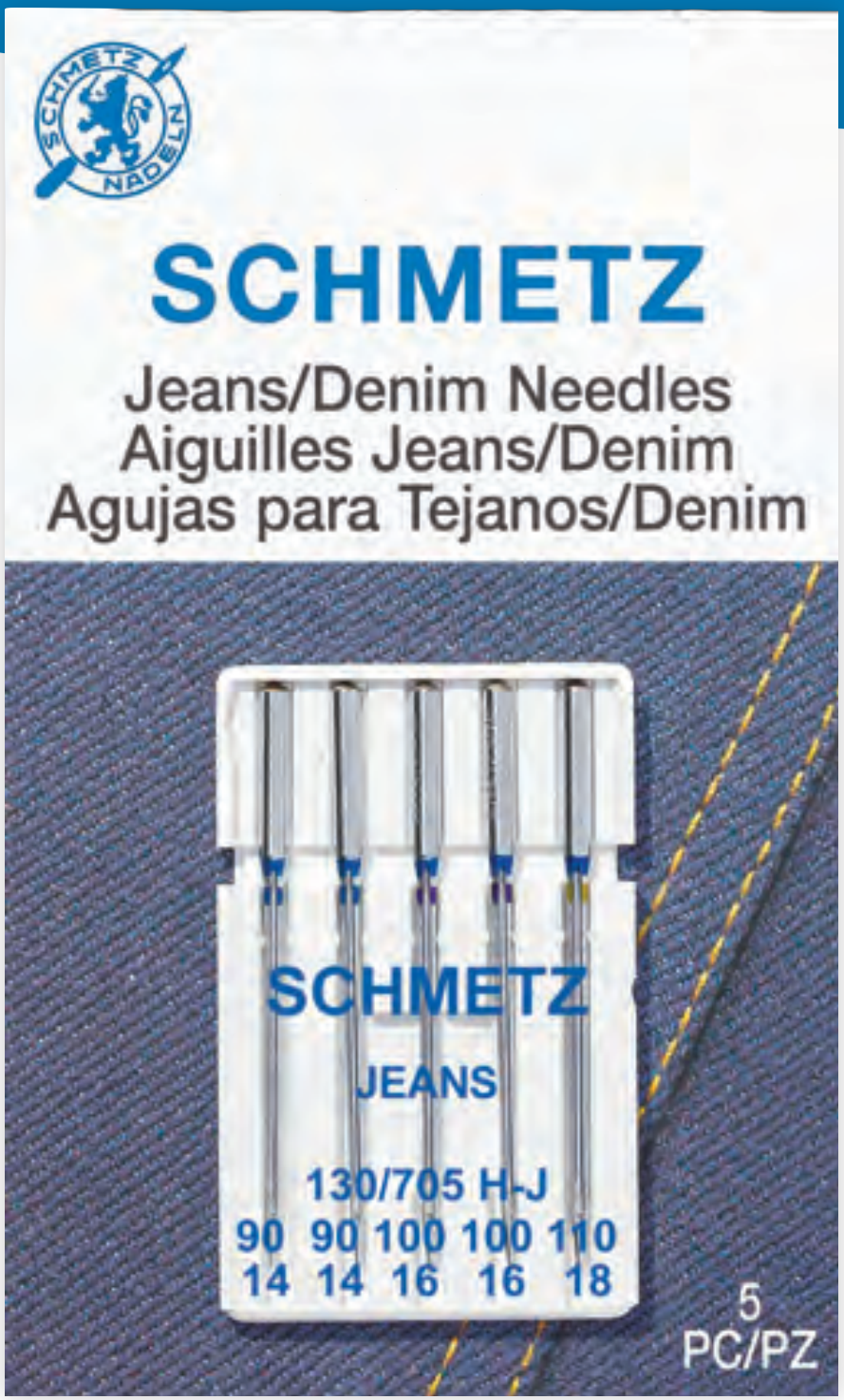
GOLD EMBROIDERY

GOLD EMBROIDERY

The SCHMETZ Embroidery Gold needle is desirable for embroidery on most fabrics and with the most fragile specialty threads. The wear protection coating resists adhesives, improves needle wear, and penetration of coarse and densely woven fabrics.

- Needle System 130/705 H-ET
- Color Code: None
- Medium Ball Point
- Wear Protection Coating
- Enlarged Eye
- Sizes: 75/11, 90/14
- Use for embroidery on a variety of fabrics.

JEANS/DENIM


SCHMETZ
Jeans/Denim Needles
Aiguilles Jeans/Denim
Agujas para Tejanos/Denim
SCHMETZ
JEANS
130/705 H-J
90 90 100 100 110
14 14 16 16 18
5
PC/PZ

The SCHMETZ Jeans needle is also known as a Denim needle. A special blade design prevents needle breakage and skipped stitches. The Jeans needle penetrates thick woven fabrics, denims, and quilts. Denim Twin needle is also available.

- Needle System 130/705 H-J
- Color Code: **Blue**
- Medium Ball Point
- Regular Eye
- Optimized Blade
- Sizes: 70/10, 80/12, 90/14,100/16, 110/18, Assortment, Twin
- Use with denim and similar fabrics.

GOLD JEANS

SCHMETZ
JEANS
GOLD
100
16
SCHMETZ
NADELN
GOLD JEANS
130/705 H-JT

The SCHMETZ Gold Jeans needle easily handles thick seams. The wear protection coating ensures extra-long needle life. The medium ball point displaces the fabric threads allowing penetration through solid, thick fabrics without damaging the material. The special blade design ensures high needle stability and reduces needle breakage and skipped stitches.

- Needle System 130/705 H-JT
- Color Code: None
- Medium Ball Point
- Wear Protection Coating
- Regular Eye
- Optimized Blade
- Sizes: 90/14,100/16
- Use with denim and similar heavy fabrics.

JERSEY/BALL POINT

JERSEY/BALL POINT

The SCHMETZ Jersey needle is also known as a Ball Point needle. Jersey Needles are recommended when working with knit fabrics. The medium ball point is designed to avoid breakage of fibers at stitch creation.

- Needle System 130/705 H SUK
- Color Code: **Orange**
- Medium Ball Point
- Regular Eye
- Sizes: 70/10, 80/12, 90/14, 100/16, Assortment
- Use with knits and some stretch fabrics. Made especially for sewing on knits.

LEATHER

SCHMETZ
NADELN
SCHMETZ
Leather Needles
Aiguilles Cuir
Agujas para Cuero
SCHMETZ
LEATHER
130/705 H LL
80 80 90 90 100
12 12 14 14 16
5
PC/PZ

The SCHMETZ Leather needle has a left twist cutting point to easily penetrate leather. Remember, once the stitch is created, the thread can be removed, but the stitch hole will remain.

- Needle System 130/705 H LL
- Color Code: **Brown**
- Cutting Point LL = Twist Point
- Regular Eye
- Sizes: 70/10, 80/12, 90/14, 100/16, 110/18, Assortment
- Use with leather, artificial leather, heavy non-woven synthetics. Do not use on knit or woven fabrics.

METALLIC

SCHMETZ
NADELN
SCHMETZ
Metallic Needles
Aiguilles Métallic
Agujas Metalic
SCHMETZ
METALLIC
130 MET
80/12
5
PC/PZ

METALLIC

The SCHMETZ Metallic needle with its elongated eye provides less stress on the thread as it passes through the eye. Achieve perfectly straight and even stitches when using a straight stitch needle plate. A popular needle choice for machine embroidery.

- Needle System 130 MET
- Color Code: **Pink**
- Slightly Rounded Point
- Elongated Eye
- Sizes: 80/12, 90/14
- Use with metallic and other specialty threads.

MICROTEX

SCHMETZ
Microtex (Sharp) Needles
Aiguilles Microtex (Pointues)
Agujas Punta Aguda para Microtex
SCHMETZ
MICROTEX
130/705 H-M
60 60 70 70 80
8 8 10 10 12
5
PC/PZ

The SCHMETZ Microtex needle is generically known as a “sharp” needle. The slim acute point creates perfectly straight stitches for piecing and quilting and beautiful topstitching on fashion sewing. Use the SCHMETZ Microtex when precision is paramount.

- Needle System 130/705 H-M
- Color Code: **Purple**
- Slim Acute Point
- Regular Eye
- Sizes: 60/8, 70/10, 80/12, 90/14, Assortment
- Use with microfibers, cork, batik, bamboo, cotton, polyester, silk, foils, artificial leather, coated materials.

SCHMETZ
Quilting Needles
Aiguilles Quilting/Courtepointe
Agujas para Pespuntear
SCHMETZ
STEPP-NADEL
QUILTING
NEEDLE
130/705 H-Q
75 75 75 90 90
11 11 11 14 14
5
PC/PZ

The SCHMETZ Quilting needle is specifically designed for piecing and quilting. With a special taper to the slightly rounded point, the needle easily penetrates fabric and helps eliminate skipped stitches.

- Needle System 130/705 H-Q
- Color Code: **Green**
- Slim, Slightly Rounded Point
- Regular Eye
- Sizes: 75/11, 90/14, Assortment
- Made especially for piecing and machine quilting, cotton, batik.

STRETCH

SCHMETZ
Stretch Needles
Aiguilles Stretch
Agujas Stretch
SCHMETZ
STRETCH
130/705 H-S
75/11
5
PC/PZ

The SCHMETZ Stretch needle has a medium ball point, smaller eye, and a deep scarf. Use on highly elastic knits especially if the fiber content includes Lycra®, Spandex, or elastic. Stretch Twin needles are also available.

- Needle System 130/705 H-S
- Color Code: **Yellow**
- Medium Ball Point
- Smaller Eye
- Deep Scarf
- Sizes: 75/11, 90/14, Twin
- Use with elastic materials and highly elastic knitwear.

SUPER NONSTICK

The SCHMETZ Super NonStick needle is a Super Universal needle with an optimized blade, extra large eye, and a slightly rounded point. **If stitching on light or white fabrics or threads, test first for excess residue.**

- Needle System 130/705 H-SU
- Color Code: None
- Slightly Rounded Point
- Anti-Adhesive Coating
- Extra Large Eye
- Optimized Blade
- Sizes: 70/10, 80/12, 90/14, 100/16
- Resists sticky stabilizers, fusibles, and adhesives. Use for machine embroidery, machine appliqué, multi-media quilting, vinyl, and hoop and loop tape.

TOPSTITCH

SCHMETZ
Topstitch Needles
Aiguilles pour Surpiquer
Agujas para Sobrepuntear
SCHMETZ
TOPSTITCH
130 N
80/12
5
PC/PZ

TOPSTITCH

The SCHMETZ Topstitch needle has an elongated eye providing less stress on the thread as it passes through the eye. Achieve perfectly straight and even stitches when using a straight stitch needle plate. A popular needle choice for machine embroidery.

- Needle System 130 N
- Color Code: **Light Green**
- Slightly Rounded Point
- Elongated Eye
- Sizes: 80/12, 90/14, 100/16, Twin
- Use with topstitch, heavy, multiple, or poor quality threads.

GOLD TOPSTITCH

GOLD TOPSTITCH

The SCHMETZ Gold Topstitch needle has an elongated eye providing less stress on the thread as it passes through the eye with a slightly rounded point. The wear protection coating is significantly harder than the standard coating ensuring extra-long needle life.

- Needle System 130/705 H-NT
- Color Code: None
- Slightly Rounded Point
- Wear Protection Coating
- Elongated Eye
- Sizes: 80/12, 90/14, Assortment
- Use with sewing, embroidery, metallic, and quilting threads.

DOUBLE EYE

SCHMETZ
Double Eye Needles
Aiguilles avec Double Chas
Agujas con Doble Ojo
SCHMETZ
DOPPELÖHR
DOUBLE EYE
705 DE
80/12
5
PC/PZ

DOUBLE EYE

The SCHMETZ Double Eye needle creates shading and texturing effects using two spools of thread for embellishing, embroidery, and topstitching. Reduce sewing speed when using this special needle.

- Needle System 705 DE
- Color Code: Size only
- Slightly Rounded Point
- Wide Eyes
- Size: 80/12
- Use with wovens and knits. Use two different threads for shading and texturing effects for embroidery and topstitching.

ELx705 SERGER/OVERLOCK

ELx705 SERGER/OVERLOCK

The SCHMETZ ELx705 needle features two grooves needed to create specialty serger stitches. The point is slightly rounded. **Do not use this needle in home sewing machines.**

- Needle System ELx705
- Color Code: **Black**
- Slightly Rounded Point
- Regular Eye
- Sizes: 80/12, 90/14, Assortments
- Designed for use in multi-purpose sergers that do overlock stitches. Not suitable for use in home sewing machines or embroidery machines. **Machines should specify ELx705.**

HEMSTITCH

SCHMETZ
Hemstitch Needle
Aiguille Lancéolée
Aguja para Calado
SCHMETZ
HOHLSAUM
HEMSTITCH
130/705 H WING
100/16
1
PC/PZ

HEMSTITCH

The SCHMETZ Hemstitch needle, also known as a Wing needle, forms a unique stitch. This needle moves easily through light to medium weight loosely woven fabrics. Popular for heirloom sewing and decorative cutwork. The Hemstitch needle can be used in multi-media quilts. Twin Hemstitch needle is also available.

- Needle System 130/705 H Wing
- Color Code: Size only
- Special Point
- Narrow Eye
- Sizes: 100/16, 120/19, Twin
- Use with light or medium weight loosely woven fabrics.

HIGH SPEED QUILTING

The SCHMETZ HLx5 needle is specifically designed for high-speed professional quilting machines. Machine owner's manual will specify HLx5 system. **Do not use this needle in home sewing machines.**

- Needle System HLx5
- Color Code: None
- Slightly Rounded Special Taper Point
- Regular Eye
- Short Shank
- Sizes: 75/11, 90/14, 100/16
- Suitable for common materials — jersey, denim, fancy fabrics, fake fur, etc.

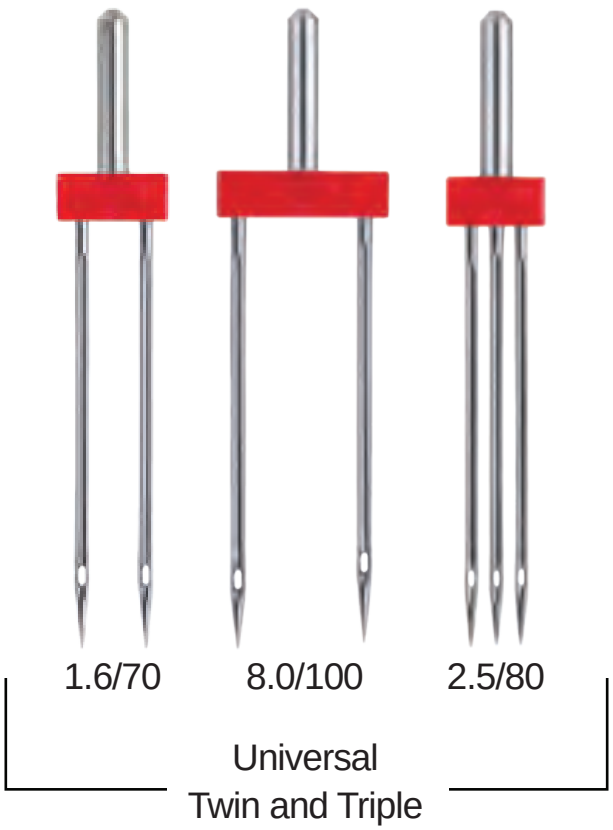
QUICK THREADING

QUICK THREADING

The SCHMETZ Quick Threading needle is a Universal needle with an easy-to-thread slot in the eye. Reduce sewing speed so the thread does not pop out of the eye. Avoid using on sensitive fabrics as the slot may snag the fabric. Do not use for quilting as the batting may pull. Do not use when sewing denim, as the eye structure is too weak.

- Needle System 705 HDK
- Color Code: Size only
- Slightly Rounded Point
- Eye with Open Slot
- Sizes: 80/12, 90/14
- Use with wovens and knits, but test first.

TWIN & TRIPLE NEEDLES



- Needle spacing shown in millimeters and needle size in NM (metric number).

  - First number is the distance between needles.

  - Second number is needle size.

TWIN & TRIPLE NEEDLES

Sewing with Twin and Triple Needles opens a wide range of practical and creative options. Use these needles to add decorative seams and creative hems to clothing. Only suitable for zig-zag machines with a transverse hook. **Verify machine throat plate can accommodate needle width.**

Twin/Triple Needles

Universal Twin - Sizes: 1.6/70, 1.6/80, 2.0/80, 2.5/80, 3.0/90, 4.0/80, 4.0/90, 4.0/100, 6.0/100, 8.0/100, Assortment

Universal Triple - Sizes: 2.5/80, 3.0/80

Double Hemstitch - Size: 2.5/100

Embroidery Twin - Sizes: 2.0/75, 3.0/75

Jeans/Denim Twin - Size: 4.0/100

Topstitch Twin - Sizes: 2.5/80, 3.0/90

Stretch Twin - Sizes: 2.5/75, 4.0/75

NEEDLE & FABRIC SUGGESTIONS

A full list of needle/fabric suggestions can be found on our website: https://www.schmetzneedles.com/pages/needles-by-fabric-type

Artificial Leather – Microtex or Leather 70/10-100/16

Bamboo – Microtex 70/10-90/14; Super NonStick 70/10-90/14
Batik – Microtex 70/10-90/14
Batiste – Universal 60/08, 70/10

Calico – Universal 80/12-100/16
Cambric – Universal 60/8, 70/10
Canvas – Jeans 90/14-110/18
Chambray – Universal 80/12, 90/14
Chenille – Universal 90/14
Chiffon – Universal or Microtex 60/8, 70/10
Cork – Microtex or Super NonStick 70/10-90/14
Corduroy – Universal 80/12-100/16
Corsetry – Stretch 75/11, 90/14; Jersey 70/10-90/14
Cotton, Knit – Jersey 70/10-90/14; Stretch 75/11, 90/14
Cotton, Woven – Universal 70/10-90/14
Crinkle – Universal or Microtex 60/8-80/12

Denim – Jeans 70/10-110/18
Double-Face Woven – Universal 70/10-110/18

Elastic – Stretch 75/11, 90/14

Faux Fur – Universal 70/10-100/16; Jersey 70/10-90/14
Felt – Universal 80/12-100/16
Flannel – Universal 80/12-110/18
Fleece – Universal 70/10-90/14; Stretch 75/11, 90/14
Foils – Microtex 60/8-110/18
Fun Fur – Universal 70/10-100/16; Jersey 70/11-90/14

Gauze – Jersey 70/10, 80/12

Highly Elastic Warp-Knit Fabric (Lycra®, silk jersey) – Stretch 75/11, 90/14

Imitation Fur (fun fur) – Jersey or Universal 70/10-100/16

Jeans – Jeans 70/10-110/18; Jeans Twin 4.0/100
Jersey – Jersey 70/10-80/12

Knits – Jersey 70/10-100/16
Knits with Lycra®, Spandex, Elastic – Jersey 70/10-100/16; Stretch 75/11, 90/14
Knits, Fine – Jersey 70/10-90/14; Stretch 75/11, 90/14

Lace – Select by Fabric Type 70/10-90/14
Lamé – Microtex 60/8-90/14

NEEDLE & FABRIC SUGGESTIONS

Leather, Thick & Artificial Leather – Leather 100/16, 110/18
Leather, Thin – Leather or Universal 70/10-90/14
Linen & Linen Blend – Universal 70/10-90/14
Lingerie – Stretch 75/11, 90/14; Jersey 70/10-90/14
Lycra® – Stretch 75/11-90/14; Jersey 70/10-90/14

Microfiber – Microtex 60/8-90/14

Nylon – Universal or Microtex 60/8-90/14

Oil Cloth – Microtex 80/12-100/16; Super NonStick 70/10-100/16
Organdy – Universal or Microtex 60/8, 70/10
Organza – Universal or Microtex 60/8, 70/10

Panne Velvet – Stretch 75/11; Universal 70/10, 80/12
Polyester – Universal or Microtex 60/8-100/16
Poplin – Microtex or Universal 60/8-80/12

Quilt – Quilting 75/11, 90/14; Microtex 70/10-90/14

Rayon – Universal 70/10, 80/12; Microtex 60/8-80/12

Satin – Microtex, Jeans, or Universal, 70/10-90/14, depends on fabric weight
Seersucker – Universal 70/10-90/14
Sequined Fabric – Microtex 70/10-90/14; Stretch 75/11, 90/14
Silk – Microtex 60/8-90/14
Silk Jersey – Stretch 75/11
Splash Fabric – Super NonStick 70/10-90/14
Synthetic Leather, Hard – Leather 100/16, 110/18
Synthetic Leather, Soft – Microtex or Leather 70/10-100/16

Taffeta – Microtex or Universal 60/8, 70/10
Terry Cloth – Universal 80/12, 90/14
Thermovelour Fleece – Universal 70/10-90/14; Stretch 75/11, 90/14
Tulle – Universal or Jersey 70/10, 80/12
Twill – Jeans 70/10-110/18

Velour – Universal 70/10-100/16
Velvet – Stretch 75/11, 90/14; Universal 70/10-90/14
Vinyl – Microtex 70/10-90/14; Super NonStick 70/10-100/16
Viscose – Universal 70/10, 80/12

Waxed Cloth – Microtex 80/12-100/16; Super NonStick 70/10-90/14
Wool & Wool Blends – Universal 70/10-100/16

$6.95

I SCHMETZ Needles!

Visit our website

#D-81

www.SCHMETZneedles.com

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