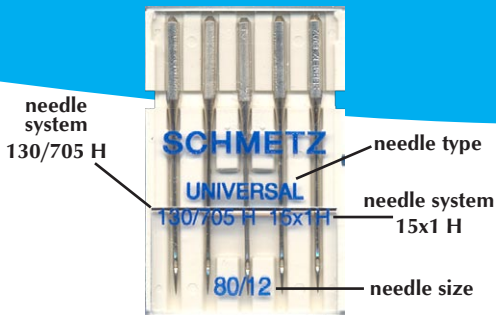




# ABC Pocket Guide

Home Sewing Machine Needles  
130/705 H

# HOW TO READ A NEEDLE PACKAGE



## Needle Systems

### **130/705 H**

Home sewing machines require a flat shank needle with a scarf. All needles in this system have a scarf and flattened shank for perfect positioning in the needle bar in relation to the hook.

### **15x1 H**

Cross reference to 130/705 H.

[www.SCHMETZneedles.com](http://www.SCHMETZneedles.com)

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- **Size:** 60/8, 65/9, 70/10, 75/11, 80/12, 90/14, 100/16, 110/18, 120/19, Assorted, Twin, Triple.
- **Feature:** Slightly rounded point.
- **Fabric Use:** Numerous — wovens and knits. A great general purpose needle.



**SCHMETZ needles work with  
all home sewing machines!**

# STRETCH



- **Size:** 75/11, 90/14, Twin
- **Color Code:** **Yellow**
- **Feature:** Medium ball point, special eye and scarf.
- **Fabric Use:** Elastic materials and highly elastic knitwear. The medium ball point, specially designed eye and scarf prevent skipped stitches.

## Color Codes

Five needles are identified with color:

- Embroidery — Red
- Jeans — Blue
- Microtex — Purple
- Quilting — Green
- Stretch — Yellow

- **Size:** 70/10, 80/12, 90/14, 100/16, Assorted
- **Feature:** Medium ball point.
- **Fabric Use:** Knits and some stretch fabrics. Made especially for sewing on knits. The medium ball point does not damage or break knitted fibers.



## Needle Selection

Choose needle size according to thread thickness and needle type according to fabric application.



- **Size:** 70/10, 80/12, 90/14, 100/16, 110/18, Assorted, Twin
- **Color Code:** **Blue**
- **Feature:** Modified medium ball point and reinforced blade.
- **Fabric Use:** Denim and similar fabrics. Advanced point design is a SCHMETZ exclusive. For penetrating extra thick woven fabrics, denims, or quilts with

minimum needle deflection, reduced risk of needle breakage and skipped stitches.

## Needle & Fabric Recommendations

Fabrics vary greatly. Test the needle on fabric scraps first.

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

**Batiste** – Universal 60/8, 70/10

**Bed-Linen, Jersey** – Stretch 75/11, 90/14

**Bed-Linen, Woven** – Universal 70/10-100/16

**Bouclé** – Jersey 70/10-90/14

- **Size:** 70/10, 80/12, 90/14, 100/16, 110/18, Assorted
- **Feature:** Cutting point.
- **Fabric Use:** Leather, artificial leather, heavy non-woven synthetics. Do not use on knit or woven fabrics.



## Needle & Fabric Recommendations

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

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

Coated Material – Microtex 70/10-110/18

# MICROTEX



- **Size:** 60/8, 70/10, 80/12, 90/14, 100/16, 110/18, Assorted
- **Color Code:** **Purple**
- **Feature:** Very slim acute point.
- **Fabric Use:** Micro fibers, polyester, silk, foils, artificial leather, coated materials. Very thin acute point creates beautiful topstitching and perfectly straight stitches for quilt piecing when precision is paramount.

## Needle & Fabric Recommendations

Corduroy – Universal 80/12-100/16

Cotton, Knit – Jersey 70/10-90/14 or Stretch 75/11, 90/14

Cotton, Woven – Universal 70/10-90/14

Crepe – Universal or Microtex 60/8-80/12

Crepe-de-Chine – Universal or Microtex 60/8-80/12

Crinkle – Universal or Microtex 60/8-80/12



- **Size:** 75/11, 90/14, Assorted
- **Color Code:** **Green**
- **Feature:** Special taper to the slightly rounded point.
- **Fabric Use:** Made especially for piecing and machine quilting. The special tapered design allows easier fabric penetration and helps eliminate skipped stitches.



## Needle & Fabric Recommendations

Denim – Jeans 70/10-110/18

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

Elastic – Stretch 65/9-90/14

Felt – Universal 80/12-100/16

Flannel – Universal 80/12-110/18

Fleece – Universal 70\*10-90 /14 or Stretch 75/11, 90/14

# EMBROIDERY



- **Size:** 75/11, 90/14, Assorted, Twin
- **Color Code:** **Red**
- **Feature:** Light ball point, wide eye and groove.
- **Fabric Use:** Use with rayon, polyester and other specialty embroidery threads. The special scarf, widened groove and enlarged eye protect fragile threads and guard against excess friction allowing trouble-free embroidery and decorative stitching.

## Needle & Fabric Recommendations

Foils – Microtex 60/8-110/18

Fun Fur – Universal 70/10-100/16 or Jersey 70/11-90/14

Gabardine – Universal 70/10-100/16

Gauze – Jersey 70/10, 80/12

Georgette – Universal or Microtex 60/8-80/12

Jacquard – Universal 80/12-100/16

# GOLD EMBROIDERY

- **Size:** 75/11, 90/14
- **Feature:** Titanium Nitride coating, slightly rounded point and enlarged eye.
- **Fabric Use:** Coarse and densely woven materials. Slightly rounded point and enlarged eye are perfect for embroidery on most fabrics and with the most fragile specialty threads. Titanium coating resists adhesives, improves needle wear and penetration of coarse and densely woven fabrics.



## Needle & Fabric Recommendations

Jeans – Jeans 70/10-110/18 or Jeans Twin 4.0/100

Jersey – Jersey 60/8-80/12

Jersey with Elastic – Stretch 65/9-90/14

**K**nits – Jersey 70/10-100/16

Knits with Elastic – Jersey 70/10-100/16 or

Stretch 65/9, 75/11, 90/14

# METALLIC



- **Size:** 80/12, 90/14, Twin
- **Feature:** Elongated eye.
- **Fabric Use:** Metallic and other specialty threads. A “must have” for sewing with sensitive metallic threads. The elongated eye prevents shredding and breaking of metallic threads.

## Needle & Fabric Recommendations

Lace – Select by Fabric Type 70/10-90/14

Lamé – Microtex 60/8-90/14

Leather, Thick & Artificial Leather – Leather 100/16-120/19

Leather, Thin – Leather or Universal 70/10-90/14

Lingerie – Stretch 65/9, 75/11, 90/14  
or Jersey 70/10-90/14

Linen & Half-Linen – Universal 70/10-90/14

- **Size:** 80/12, 90/14, 100/16
- **Feature:** Extra long eye.
- **Fabric Use:** Topstitch, heavy, multiple or poor quality threads. Achieve perfectly straight stitch lines and even stitches when using a straight stitch plate.



## Needle & Fabric Recommendations

Lycra – Stretch 65/9-90/14 or 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

Organdy – Universal or Microtex 60/8, 70/10

Organza – Universal or Microtex 60/8, 70/10

# HEMSTITCH



- **Size:** 100, 120, Twin
- **Feature:** A wing on each side of the needle.
- **Fabric Use:** Light or medium weight loosely woven fabrics. Popular for heirloom sewing and to create decorative cutwork.

## Needle & Fabric Recommendations

Polyester – Universal or Microtex 60/8-100/16

Poplin – Microtex or Universal 60/8-80/12

Quilt – Quilting 75/11, 90/14 or Jeans 70/10-110/18

Rayon – Universal 70/10, 80/12

Seersucker – Universal 70/10-90/14

- **Size:** 80/12
- **Feature:** Universal needle with two eyes.
- **Fabric Use:** Numerous — wovens and knits. Use two different threads for shading and texturing effects for embroidery and topstitching.

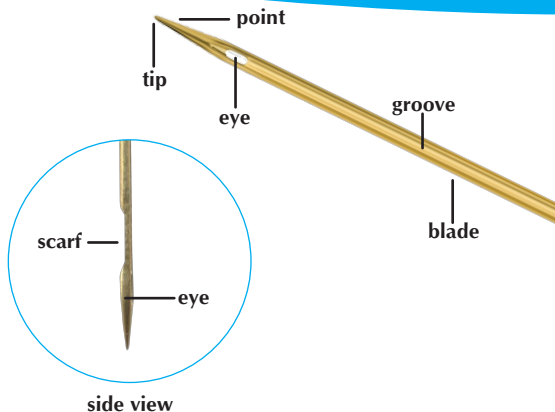


## Needle & Fabric Recommendations

Sequined Fabric – Microtex 70/10-90/14 or  
Stretch 75/11, 90/14  
Silk – Microtex 60/8-90/14  
Silk Jersey – Stretch 65/9, 75/11  
Sweatshirt – Jersey 70/10-90/14

Taffeta – Microtex or Universal 60/8, 70/10  
Terry Cloth – Universal 80/12, 90/14

# NEEDLE ANATOMY



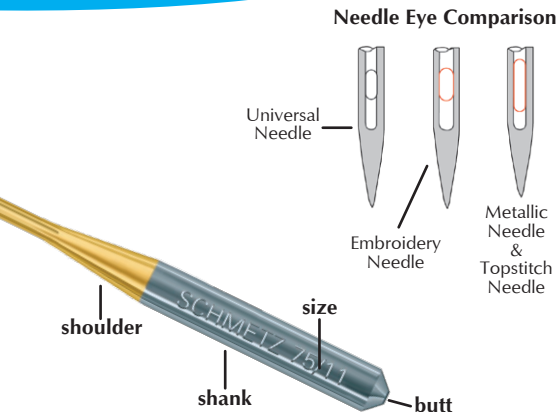
**Point and Tip:** Length, shape and size vary according to needle types.

**Eye:** The hole through which thread passes. The shape and size vary according to needle type.

**Scarf:** Indentation above the eye that allows the bobbin hook to smoothly grab the thread under the throat plate to create a stitch.



# NEEDLE ANATOMY



**Groove:** Cradles and guides thread to the eye.

**Blade:** Needle size is determined by the blade diameter (i.e., size 75 is .75mm)

**Shoulder:** Sloping area transitioning between the shank and blade.

**Shank:** Household needles have a flat shank.

**Butt:** Beveled end.

# QUICK THREADING



- **Size:** 80/12, 90/14
- **Feature:** Universal needle with a slip-in threading slot in the eye.
- **Fabric Use:** Numerous — wovens and knits. A general purpose needle for effortless threading.

## Needle & Fabric Recommendations

Thermovelour Fleece – Universal 70/10-90/14 or  
Stretch 75/11, 90/14

Tulle – Universal or Jersey 70/10, 80/12

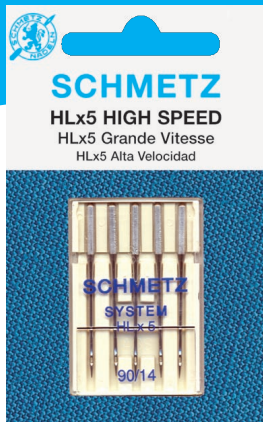
Twill – Jeans 70/10-110/18

Velour – Universal 70/10-100/16

Velour Jersey – Stretch 75/11, 90/14

# HIGH SPEED PROFESSIONAL QUILTING

- **Size:** 75/11, 90/14, 100/16
- **Feature:** A chrome-plated, flat shank needle (similar to 130/705 H) designed specifically for high-speed professional quilting machines (i.e., Janome 1600 P Series). This needle features a short shank and a slightly rounded needle point with a shank diameter of only 2 mm.
- **Fabric Use:** Suitable for all common materials - jersey, denim, fancy fabrics, fake fur, etc.



## Needle & Fabric Recommendations

Velvet – Stretch 75/11, 90/14 or Universal 70/10-90/14  
Velvet Burn-Out – Stretch 65/9-90/14  
Velvet Panne – Stretch 75/11 or Universal 70/10-80/12  
Vinyl – Microtex 60/8-90/14  
Voile – Universal 60/8-80/12

Waxed Cloth – Microtex 80/12-100/16  
Wool & Wool Blends – Universal 70/10-100/16

# TWIN & TRIPLE



## Twin & Triple Needles

Twin Needles are available for most fabrics. Twin Needle properties are equivalent to single needles. Use for pintucks, topstitching, single and multi-colored decorative seams and hems.

# STRETCH TWIN

- **Size:** 2.5/75, 4.0/75
- **Feature:** Two *Stretch* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Elastic materials and highly elastic knitwear.



## Sewing with a Specialty Thread

Use a needle with a larger eye so there is less friction on the thread as it passes through the eye. Try an Embroidery, Gold Embroidery, Metallic or Topstitch needle.

# JEANS TWIN



- **Size:** 4.0/100
- **Feature:** Two *Jeans* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Denim and similar extra-thick woven fabrics.

## Decorative Stitches

Suggested needles for creating decorative stitches:

**Decorative** — Double Eye 80/12

**Jeans Stitch** — Jeans 70/10-110/18, Twin 100

**Embroidery** — Embroidery 75/11, 90/14, GOLD  
Embroidery 75/11, 90/14, Embroidery Spring 80/12

# METALLIC TWIN

- **Size:** 2.5/80, 3.0/90
- **Feature:** Two *Metallic* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Special effect and fancy threads, particularly for metallic threads.



## Decorative Stitches

**Hemstitch** — Hemstitch 110/18, 120/19 or Dbl. Hemstitch 100

**Pintucks** — Twin 60-100, NE 1.6-4.0

**Twin Stitches** — Choose needle type 70-100, NE 1.6-8.0

**Triple Stitches** — 2.5/80, 3.0/80

**Topstitching** — Topstitch 80/12-90/14 or Microtex 60/8-90/14

# EMBROIDERY TWIN



- **Size:** 2.0/75, 3.0/75
- **Feature:** Two *Embroidery* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Use with rayon, polyester, and other specialty embroidery threads.

## System Designations

H	Scarf, slightly rounded point
E	Embroidery, light ball point
J	Jeans, acute round point
M	Microfibre, acute round point
Q	Quilting, slightly rounded point
S	Stretch, medium ball point



# DOUBLE HEMSTITCH

- **Size:** 2.5/100
- **Feature:** A *Wing* needle and a *Universal* needle with a 2.5 mm separation combined on a single shank for decorative stitching in dual rows.
- **Fabric Use:** Light or medium weight loosely woven fabrics; for heirloom sewing and decorative cutwork.



## System Designations

ZWI	Twin
DRI	Triple
WING	Hemstitch
ZWIHO	Double Hemstitch
LL	Cutting point with left twist
BR	Twin needle, extra wide

# UNIVERSAL TWIN



- **Size:** 1.6/70, 1.6/80, 2.0/80, 2.5/80, 3.0/90, 4.0/80, 4.0/90, 4.0/100, Assorted
- **Feature:** Two *Universal* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Numerous — wovens and knits.

## Definitions

The following are frequently used needle terms:

**NE** — Distance between needles

**NM** — Needle size

**130/705 H** — Household needle with flat shank and scarf, equivalent to 15x1 H (Japanese) and 2020 (Singer).

# UNIVERSAL TWIN – WIDE

- **Size:** 6.0/100, 8.0/100
- **Feature:** Two *Universal* needles mounted on one shank create two rows of stitches simultaneously.
- **Fabric Use:** Numerous — wovens and knits.



## Serger/Overlock/Specialty Machines

SCHMETZ provides all needle systems (ELx705, BLx1, DCx1) for domestic sergers and other special machines. Consult machine owner's manual and [www.schmetzneedles.com](http://www.schmetzneedles.com).

# UNIVERSAL TRIPLE



- **Size:** 2.5/80, 3.0/80
- **Feature:** Three *Universal* needles mounted on one shank create three rows of stitches simultaneously.
- **Fabric Use:** Numerous.

## Replace Your Needle

The rule of thumb is to change the needle after every eight (8) hours of sewing or after each sewing project.

Changing the needle is the easiest way to improve stitch quality!

- **Feature:** Has a spring around the needle, which assumes the function of the presser foot.
- **Fabric Use:** Terrific for free motion and embroidery. Remove foot for easy viewing of stitches.
- **Denim** — 100/16
- **Embroidery** — 75/11, 90/14
- **Quilting** — 75/11, 90/14
- **Stretch** — 75/11, 90/14
- **Universal** — 70/10, 80/12, 90/14



## Change Your Needle!

Worn or damaged needles result in:

- Broken or shredded threads
- Skipped or uneven stitches
- Puckered or damaged fabrics
- Popping sound made by sewing machine

# WHAT'S YOUR FAVORITE NEEDLE?

**Ball Point/Jersey** — 70/10, 80/12, 90/14, 100/16, Assorted

**Denim** — 70/10, 80/12, 90/14, 100/16, 110/18,

Assorted, Twin

**Double Eye** — 80/12

**ELX705** — 80/12, 90/14, Assorted

**Embroidery** — 75/11, 90/14, Assorted, Twin

**Embroidery, Gold** — 75/11, 90/14

**Hemstitch** — 100, 120, Twin

**HLX5** — 75/11, 90/14, 100/16

**Leather** — 70/10, 80/12, 90/14, 100/16, 110/18, Assorted

**Metallic** — 80/12, 90/14

**Microtex (Sharp)** — 60/8, 70/10, 80/12, 90/14, 100/16,

110/18, Assorted

**Overlock, BLX1, DCX1** — Assorted

**Quick Threading** — 80/12, 90/14

**Quilting** — 75/11, 90/14, Assorted

*Your Sewing Machine is Only  
as Good as the Needle Used!*

# WHAT'S YOUR FAVORITE NEEDLE?

**Stretch** — 65/8, 75/11, 90/14, Twin

**Topstitch** — 80/12, 90/14, 100/16

**Universal** — 60/8, 65/9, 70/10, 75/11, 80/12,  
90/14, 100/16, 110/18, 120/19, Assorted, Twin, Triple

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**Double Hemstitch** — 2.5/100

**Embroidery Twin** — 2.0/75, 3.0/75

**Jeans Twin** — 4.0/100

**Metallic Twin** — 2.5/80, 3.0/90

**Stretch Twin** — 2.5/75, 4.0/75

**Universal Triple** — 2.5/80, 3.0/80

**Universal Twin** — 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

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Dealer Stamp

