Needle ABC

Needles for household sewing machines

SCHMETZ
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Your sewing machine is only as good as the needle you use!
Needle anatomy

**Front view**
- Needle size
  - NM 75
  - SIZE 11
- Butt
- Shank
- Needle type
- Needle size
- Blade
- Long groove

**Side view**
- 0.75 mm
- Scarf
- Eye
- Point
- Tip
**SCHMETZ point shapes on household sewing machine needles**

- Slightly rounded point
- Medium ball point
- Slightly rounded point with special taper
- Acute round point
- Light ball point
- Twist point LL

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

Worn or damaged needles often result in:
- Frayed threads or thread breakage
- Skipped stitches or uneven stitches
- Seam puckering
- Damaged textiles
- Popping sound during sewing

**Rule of thumb:** We recommend replacing the needle after 8 hours of sewing time.
System 130/705 H
with slightly rounded point, for problem-free processing of many different types of material

Needle size NM 60 to NM 130, also assorted

Also available as Twin and Triple Needle

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**Ajour** Jersey Needle NM 70 to NM 90

**Batiste** Universal Needle NM 60, NM 70

**Bedding, jersey** Stretch Needle NM 75, NM 90

**Bedding, woven fabric** Universal Needle NM 70 to NM 100

**Belseta** Microtex Needle NM 70 to NM 90
System 130/705 H SUK with medium ball point for knit fabrics

**Needle size** NM 70 to NM 100, also assorted

**Color marking**

- **Bouclé** Jersey Needle NM 70 to NM 90
- **Brocade** Universal Needle or Microtex Needle NM 60 to NM 90
- **Calico** Universal Needle NM 80 to NM 100
- **Canvas** Jeans Needle NM 90 to NM 110
- **Chambray** Universal Needle NM 80, NM 90
- **Chenille** Universal Needle NM 90
Stretch Needle

System 130/705 H-S
with medium ball point; for elastic materials and highly elastic knitted fabric

The special eye section and scarf shape help to prevent skipped stitches, in particular with highly elastic fabrics.

**Needle size** NM 65, NM 75, NM 90, also assorted

**Color marking**

**Chiffon** Universal Needle or Microtex Needle NM 60, NM 70

**Coarse warp-knit fabric and knitwear**
Jersey Needle NM 80, NM 90

**Coat fabric** Universal Needle NM 90 to NM 130

**Coated materials** Microtex Needle NM 70 to NM 110

**Corduroy** Universal Needle NM 80 to NM 100
Super Stretch Needle

System HAx1 SP
Stretch Needle with widened eye and widened thread groove, as well as reinforced blade; the chrome coating increases the wear resistance; for sewing with thicker threads and for preventing needle breakage — as an alternative to the Stretch Needle for elastic materials and highly elastic knit fabric

**Needle size** NM 65, NM 75, NM 90, also assorted

**Color marking**

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**Corsetry fabrics** Stretch Needle NM 75, NM 90 or Jersey Needle NM 70 to NM 90

**Cotton knitwear** Jersey Needle NM 70 to NM 90 or Stretch Needle NM 75, NM 90

**Crêpe de Chine** Universal Needle or Microtex Needle NM 60 to NM 80

**Crepe** Universal Needle or Microtex Needle NM 60 to NM 80

Also for suitable overlock machines
System 130/705 H-J
with medium ball point, which moves more easily through thick fabrics without damaging the material; the reinforced blade guarantees reduced deflection of the needle and reduces the risk of needle breakage and skipped stitches; for denim (jeans) and similarly tough fabrics

**Needle size** NM 70 to NM 110, also assorted

**Color marking**

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**Crinkle, crash** Universal Needle or Microtex Needle NM 60 to NM 80

**Cupro** Microtex Needle NM 60 to NM 80

**Curtains** Universal Needle or Jersey Needle NM 80, NM 90

**Denim** Jeans Needle NM 70 to NM 110; Jeans Twin Needle (for accentuated topstitch seams) NM 100
Microtex Needle

System 130/705 H-M
with a particularly acute, slim point for easier entry into extremely fine or densely woven materials; for extremely straight stitches, topstitching work on edges, including for silk, microfiber fabrics, coated materials, foils and synthetic leather

**Needle size** NM 60 to NM 110, also assorted

**Color marking**

- Devoré Stretch Needle NM 65, NM 75, NM 90
- Double Face Universal Needle NM 70 to NM 110

**Effect threads** Embroidery Needle NM 75, NM 90 or Gold Embroidery Needle NM 75, NM 90 or Metallic Needle NM 80, NM 90

**Elastic materials** Stretch Needle NM 65, NM 75, NM 90; Super Stretch Needle (for thicker threads) NM 65, NM 75, NM 90
Leather Needle

System 130/705 H LL with cutting point LL (= twist point) for easier penetration; for leather, hard synthetic leather or similar materials

**Needle size** NM 70 to NM 120, also assorted

**Color marking**

Not suitable for woven fabrics or knitted fabrics

**Embroidery** Embroidery Needle NM 75, NM 90; Embroidery Spring Needle (for embroidery without a sewing foot) NM 80; Gold Embroidery Needle (for large number of stitches) NM 75, NM 90

**Embroidery with self-adhesive stabilizers** Super Universal Needle NM 70 to NM 90
Quilting Needle

**System 130/705 H-Q**
with special taper to the slightly rounded needle point, which can penetrate easily through thick layers without damaging the material; for topstitching work such as quilting and patchwork

**Needle size** NM 75 and NM 90, also assorted

**Color marking**

**Fancy seams** Hemstitch Needle NM 100, NM 120 or Double Eye Needle NM 80 or Twin Needle NM 70 to NM 100 (special needles are available for different application areas), NE 1.6 mm to 8.0 mm or Triple Needle NM 80, NE 2.5 mm or 3.0 mm

**Fancy seams, multiple colors** Double Eye Needle NM 80 or Twin Needle (special needles are available for different application areas)
**Topstitch Needle**

**System 130 N**
with extremely long needle eye (2 mm in all needle sizes) compared with Universal or Embroidery Needles; for ornamental and topstitching work with multiple threads, as well as for re-embroidery

**Needle size** NM 70 to NM 110, also assorted

**Color marking**

NM 70 to NM 100, NE 1.6 mm to 8.0 mm or Triple Needle NM 80, NE 2.5 mm or 3.0 mm

**Fancy seams, three-line** Triple Needle NM 80, NE 2.5 mm or 3.0 mm

**Fancy seams, two-line** Twin Needle (special needles are available for different application areas) NM 70 to NM 100, NE 1.6 mm to 8.0 mm

**Faux fur** Universal Needle NM 70 to NM 100 or Jersey Needle NM 70 to NM 90
System 130 MET
with extremely long needle eye (2 mm in all needle sizes) compared with Universal or Embroidery Needles; for processing special and effect threads, in particular for metallic threads

**Needle size** NM 80 and NM 90

**Color marking**

Also available as Twin Needle

**Felt** Universal Needle NM 80 to NM 100
**Fine jersey** Stretch Needle NM 65, NM 75
**Fleece** Universal Needle NM 70 to NM 90 or Stretch Needle NM 75, NM 90
**Foils (plastic foils, synthetic leather, oilcloth)** Microt tex Needle NM 60 to NM 110
Embroidery Needle

System 130/705 H-E with light ball point, extremely wide needle eye (compared with the Universal Needle) and wide thread groove for thicker threads and wool threads; for embroidery

**Needle size** NM 75 and NM 90, also assorted

**Color marking**

Also available as Twin Needle

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**G**

**Gabardine** Universal Needle NM 70 to NM 100

**Gauze** Jersey Needle NM 70, NM 80

**Georgette (also known as Crêpe Georgette)** Universal Needle or Microtex Needle NM 60 to NM 80

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**H**

**Half-linen** Universal Needle NM 70, NM 80
System 130/705 H-ET with light ball point, enlarged eye and titanium-nitride coating, which provides a longer service life in applications with a high number of stitches and less residues on the needle; for embroidery and tough, densely woven materials

**Needle size** NM 75 and NM 90

**Gold Embroidery Needle**

Hemstitch seams Hemstitch Needle NM 100, NM 120 or Double Hemstitch Needle NM 100

Highly elastic warp-knit fabric (lycra, silk jersey)
Stretch Needle NM 65, NM 75

Hook-and-loop tape Super Universal Needle NM 80 to NM 100

Imitation fur (fun fur) Jersey Needle or Universal Needle NM 70 to NM 100
SCHMETZ color marking

The color code on the shoulder of the SCHMETZ household sewing machine needles enables the needle type and size to be identified quickly. The first color indicates the needle type, the second color represents the needle size.
Needle type

- Universal Needle
- Stretch Needle
- Jersey Needle
- Jeans Needle
- Leather Needle
- Microtex Needle
- Quilting Needle
- Embroidery Needle
- Metallic Needle
- Topstitch Needle
- Embroidery Spring Needle
- Hemstitch Needle
- Double Eye Needle
- Quick Threading Needle
- Special Needles (HAx1 SP, 130/705 H-PS, 705 B)
- Overlock Needles (ELx705, ELx705 CF, ELx705 SUK CF)

Needle size

<table>
<thead>
<tr>
<th>NM</th>
<th>SIZE</th>
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<tr>
<td>125</td>
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</table>

Note: For this application no color marking is used. Only the needle size is color-marked.
Super Universal Needle

System 130/705 H-SU with slightly rounded point and special blade reinforcement; the smooth non-stick coating ensures reduced adhesive residues on the needle and, together with the extra-large eye, prevents thread breakage; the special eye section, in combination with the scarf shape, helps to prevent skipped stitches; for embroidery with self-adhesive embroidery stabilizer and spray adhesive, hook-and-loop fasteners and other challenging materials

Needle size NM 70 to NM 100

Jacquard Universal Needle NM 80 to NM 100
Jeans Jeans Needle NM 70 to NM 110; Jeans Twin Needle (for accentuated topstitching) NM 100
Jersey Jersey Needle NM 70, NM 80; Stretch Needle (for elastic material) NM 65, NM 75
**Needle eye comparison**

Universal Needle

Embroidery Needle

Gold Embroidery Needle

Super Universal Needle

Metallic Needle

Topstitch Needle

**Knitted fabric, coarse** Jersey Needle NM 70 to NM 100

**Knitted fabric, fine** Jersey Needle NM 70 to NM 90; Stretch Needle (for elastic material) NM 65, NM 75, NM 90

**Lace** needle must be coordinated individually with the material, NM 70 to NM 90

**Lamé** Microtex Needle NM 60 to NM 90
Embroidery Spring Needle

System 130/705 H SPR
with a spring that surrounds the needle and takes on the function of a sewing foot; for embroidery work with embroidery frame without a sewing foot, for individual embroidery patterns, free motion and improved visibility during sewing

**Needle size** NM 80

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**Lavabel** Universal Needle NM 60 to NM 90
**Leather, thick** Leather Needle NM 100 to NM 120
**Leather, thin** Leather Needle or Universal Needle NM 70 to NM 90
**Linen** Universal Needle NM 80, NM 90
**Lingerie** Stretch Needle NM 75 or Super Stretch Needle NM 70, NM 80
Hemstitch Needle

System 130/705 H WING with wing-like widened needle blade, which pushes the material to the side; for decorative seams and fancy hemstitch seams in loosely woven fabrics

**Needle size** NM 100 and NM 120

Also available as a Twin Needle in combination with a Universal Needle

- **Loden** Universal Needle NM 80 to NM 130
- **Lycra** Stretch Needle NM 65, NM 75, NM 90 or Jersey Needle NM 70 to NM 90
- **Metallic sewing/embroidery thread** Metallic Needle NM 80, NM 90 or Gold Embroidery Needle NM 75, NM 90
- **Microfiber woven fabric** Microtex Needle NM 60 to NM 90
Double Eye Needle

System 705 DE
with two eyes; for ornamental work with effect threads

**Needle size** NM 80

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**NE** Needle distance in mm for Twin and Triple Needles

**NM** needle thickness (blade diameter) in hundredths of a millimeter (e.g. NM 80 = 0.8 mm blade diameter)

**Nylon** Universal Needle or Microtex Needle
NM 60 to NM 90
Quick Threading Needle

System 705 HDK
Universal Needle with a small slot on the side of the needle eye, which allows the thread to slide into the eye; for easy threading of the thread into the eye

**Needle size** NM 80 and NM 90

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**Oilcloth** Microtex Needle NM 80 to NM 100

**Organdy** Universal Needle or Microtex Needle NM 60, NM 70

**Organza** Universal Needle or Microtex Needle NM 60, NM 70

**Overlock work** There are different needle systems, please follow the information provided by the machine manufacturer.
Twin and Triple Needles

Only suitable for zig-zag machines with a transverse hook. Twin Needles are also available for almost all sewing work, with properties that correspond to the relevant individual needle. **Application areas** pintucks, single and multi-colored fancy seams, hem seams

Needles for special machines

SCHMETZ offers all the necessary needle systems for household overlock machines and other special machines. Ask for the list of “Needles for household sewing machines, special applications and overlock” in your specialty store.

Ask for the list of “Needles for household sewing machines, special applications and overlock” in your specialty store.

**Panne velvet** Stretch Needle NM 75 or Universal Needle NM 70, NM 80

**Patchwork** Quilting Needle NM 75, NM 90

**Pintucks** Twin Needle (special needles are available for different application areas)
Universal Twin Needle

System 130/705 H ZWI NE 1,6
Needle distance 1.6 mm
Needle size NM 70 and NM 80

System 130/705 H ZWI NE 2,0
Needle distance 2.0 mm
Needle size NM 80

System 130/705 H ZWI NE 2,5
Needle distance 2.5 mm
Needle size NM 80

System 130/705 H ZWI NE 3,0
Needle distance 3.0 mm
Needle size NM 90

System 130/705 H ZWI NE 4,0
Needle distance 4.0 mm
Needle size NM 80 to NM 100

NM 70 to NM 100, NE 1.6 to 4.0 mm; Stretch Twin Needle (for elastic materials) NM 75, NE 2.5 mm or 4.0 mm

**Polyester** Universal Needle or Microtex Needle NM 60 to NM 100

**Poplin** Microtex Needle or Universal Needle NM 60 to NM 80
Universal Twin Needle with particularly wide needle distance

System 130/705 H ZWI BR NE 6,0
Needle distance 6.0 mm
Needle size NM 100

System 130/705 H ZWI BR NE 8,0
Needle distance 8.0 mm
Needle size NM 100

Quilting Quilting Needle NM 75, NM 90

Reversible Universal Needle or Jersey Needle NM 70 to NM 100

Seersucker Universal Needle NM 70 to NM 90
Sequined fabric Microtex Needle NM 70 to NM 90 or Stretch Needle NM 75, NM 90
Serging seams see overlock work
Stretch Twin Needle

System 130/705 H-S ZWI NE 2,5
Needle distance 2.5 mm
Needle size NM 75

System 130/705 H-S ZWI NE 4,0
Needle distance 4.0 mm
Needle size NM 75

Shirts Universal Needle NM 70, NM 80
Shirts with stretch Stretch Needle NM 75
Shot fabric Universal Needle or Microtex Needle NM 60 to NM 80
Silk jersey Stretch Needle NM 65, NM 75
Silk Microtex Needle NM 60 to NM 90
Single jersey Stretch Needle NM 65, NM 75
Suits Universal Needle NM 80, NM 90
Sweatshirt fabrics Jersey Needle NM 70 to NM 90
Jeans Twin Needle

System 130/705 H-J ZWI NE 4,0
Needle distance 4.0 mm
Needle size NM 100

Synthetic leather, hard  Leather Needle
NM 100 to NM 120

Synthetic leather, soft  Microtex Needle or
Leather Needle NM 70 to NM 100

Table linen  Universal Needle NM 60 to NM 100

Taffeta  Microtex Needle or Universal Needle
NM 60, NM 70

Terry cloth  Universal Needle NM 80, NM 90
## Embroidery Twin Needle

<table>
<thead>
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<th>Needle distance</th>
<th>Needle size</th>
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<th>Needle distance</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3.0 mm</td>
<td>NM 75</td>
</tr>
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</table>

**Topstitching work** Topstitch Needle NM 75, NM 90 or Microtex Needle NM 60 to NM 90

**T-shirt hems/edge finishing** Stretch Twin Needle NM 75, NE 2.5 mm or 4.0 mm

**Tulle** Universal Needle or Jersey Needle NM 70, NM 80

**Twill** Jeans Needle NM 70 to NM 110
Metallic Twin Needle

System 130 MET ZWI NE 2,5
Needle distance 2.5 mm
Needle size NM 80

System 130 MET ZWI NE 3,0
Needle distance 3.0 mm
Needle size NM 90

Velour jersey, warp-knitted plush
Stretch Needle NM 75, NM 90

Velour
Universal Needle NM 70 to NM 100

Velvet
Stretch Needle NM 75, NM 90 or Universal Needle NM 70 to NM 90

Viscose
Universal Needle NM 70, NM 80

Voile
Universal Needle NM 60 to NM 80
Double Hemstitch Needle

System 130/705 H ZWIHO
Needle distance 2.5 mm
Needle size NM 100

1 Hemstitch Needle in combination with
1 Universal Needle

WING Needle  Hemstitch Needle NM 100, NM 120
Wool/wool blend fabric  Universal Needle NM 70 to NM 100
Working clothes  Jeans Needle NM 100, NM 110

ZWIHO Double Hemstitch Needle NM 100
Universal Triple Needle

**System 130/705 H DRI NE 2,5**
- **Needle distance**: 2.5 mm
- **Needle size**: NM 80

**System 130/705 H DRI NE 3,0**
- **Needle distance**: 3.0 mm
- **Needle size**: NM 80

Because the materials vary significantly, this information is only a general indication. SCHMETZ recommends testing the needles on a piece of left-over material before use.
Have you seen our new website www.schmetz.com? Visit us now and find out about SCHMETZ and the portfolio for household sewing machine needles.