

Needle ABC

Needles for household
sewing machines



SCHMETZ

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The SCHMETZ Needle ABC only contains needles for conventional household sewing machines.

These needles are suitable for use in household sewing machines from all manufacturers.

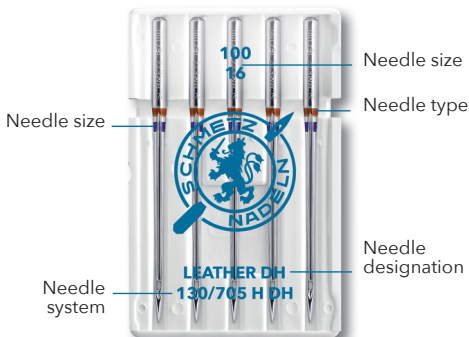


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Packaging



**Your sewing machine is
only as good as the
needles you use!**

Needle anatomy

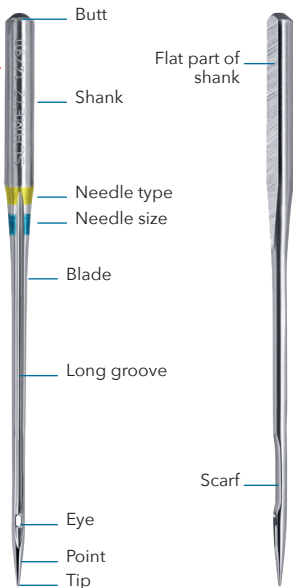
Front view

Side view

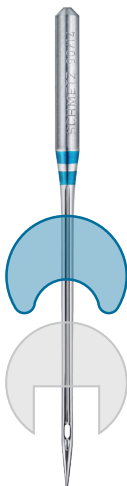
Needle size

NM 90

SIZE 14



Industry standard for use at home



The industrial blade design, which features rounded edges on the thread groove, minimizes thread breakage. Thanks to the optimized shape of the blade, the needle is more stable, which reduces needle breakage. The enhanced scarf allows for reliable loop formation and prevents skipped stitches.

SCHMETZ point shapes on household sewing machine needles

Slim acute point



Acute point



Slim, slightly rounded point



Slightly rounded point



Medium ball point



Half triangular point DH



Twist point LL



Needle change

Replace your needle regularly!

This is the easiest way to improve seam quality.

Worn or damaged needles often lead to:

- Frayed threads or thread breakage
- Skipped stitches or uneven stitches
- Seam puckering
- Damaged textiles
- Popping sound during sewing



Rule of thumb

We recommend that you replace the needle after approx. 8 hours of sewing time. Or, as an easy-to-remember alternative: replace your needle at the start of each new project.

In addition, you can do a simple test to check whether your needle is still in perfect condition: Insert the needle into an old pair of sheer tights. If it gets stuck or pulls on threads when piercing or pulling out of the material, you should stop using it as its point is damaged.



Comparison of needle eyes

Universal Needle



Stretch Needle



Gold Embroidery
Needle



Black Super
Universal Needle



Metallic Needle



Needle size

The NM needle size standard is based on the metric system. The NM specification corresponds to 100 times the needle blade diameter in millimeters (e.g. NM 90 = 0.9 mm blade diameter).

The SIZE standard is common in many English-speaking and Asian countries.

The following applies to both standards:
The higher the number, the thicker the needle.

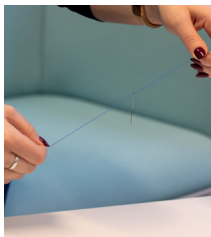
Does the selected needle size match the thread?

The needle size not only needs to be suitable for the fabric, but also for the thread thickness. It must be able to run freely through the needle eye.

You can find this out with a simple test:

Hold the thread with the threaded needle at an angle of about 45°.

If the needle size and thread thickness are optimally matched, the needle will slowly slide down the thread under its own weight.



Coatings on SCHMETZ household sewing machine needles



The standard coating protects the needle from corrosion and wear when sewing everyday projects.



The GOLD Line offers extra needle durability: The gold-colored wear protection coating is particularly suitable for frequent sewing, sewing-intensive projects or work involving demanding, heavy fabrics. Minor user errors are compensated for by the extra hard coating, and, at the same time, the needle has to be replaced less often thanks to its longer service life.



The BLACK Line is used for delicate fabrics and adhesive elements. The black nonstick coating minimizes adhesion to the needle or eye, thus preventing skipped stitches and thread breakage. The needle's improved glideability also allows delicate materials to be handled gently.



UNIVERSAL

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System 130/705 H

with a slightly rounded point; for hassle-free sewing of a wide range of materials

Needle size

NM 60 to NM 130, also assorted

Alternative designation

HAX1, 15x1, 15x1 H, 705 H, 130 R, SY 2000, SY 2020, SY 2031

Also available as twin and triple needles

JERSEY

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System 130/705 H SUK

with medium ball point; for knitwear

Needle size

NM 70 to NM 100, also assorted

Alternative designation

HAX1 SUK, 15x1 H SUK, 15x1 H M BALL, SY 2021, SY 2033

STRETCH

scan me



System 130/705 H-S

with medium ball point; for elastic materials and highly elastic knitted fabrics

The stronger shank flattening in combination with the special eye section and scarf shape prevents skipped stitches, especially in highly elastic fabrics.

Needle size

NM 65, NM 75, NM 90, also assorted

Alternative designation

705 HS, SY 2045

Also available as a twin needle

SUPER STRETCH

scan me



System HAx1 SP

Stretch Needle with wider eye, wider thread groove and special blade design; for sewing with thicker threads and to prevent needle breakage - as an alternative to Stretch Needles for elastic materials and highly elastic knitted fabrics

Needle size

NM 65, NM 75, NM 90, also assorted

Alternative designation

15x1 SP

Also for suitable sergers

BLACK SUPER STRETCH

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System HAx1 SP SU

with medium ball point; widened eye and thread groove; the nonstick coating ensures improved glideability and the special blade design reduces needle breakage and skipped stitches; for delicate, highly elastic stretch fabrics such as lingerie fabrics

Needle size

NM 75 and NM 90

JEANS



System 130/705 H-J

with medium ball point that penetrates solid, thick fabrics more easily without damaging the material; the special blade design ensures less needle deflection and reduces the risk of needle breakage and skipped stitches; for denim (jeans) and similar, rigid woven fabrics

Needle size

NM 70 to NM 110, also assorted

Alternative designation

SY 2026

Also available as a twin needle

GOLD JEANS



System 130/705 H-JT

with medium ball point; longer needle life due to wear protection coating; the special blade design ensures less needle deflection and reduces the risk of needle breakage and skipped stitches; for demanding projects involving denim (jeans) and similar, rigid woven fabrics

Needle size

NM 90 and NM 100

MICROTEX

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System 130/705 H-M

with particularly acute, slim point for easier penetration into very fine or densely woven materials; for particularly straight stitches when topstitching edges; also for silk, microfiber fabric, coated materials, foils and synthetic leather

Needle size

NM 60 to NM 110, also assorted

Alternative designation

SY 2023

BLACK SUPER FINE

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System 130/705 H-SU XS

with slim, slightly rounded point; the very slim needle design and nonstick coating ensure particularly gentle handling of delicate materials and reduced adhesion to the needle; for very fine, delicate and light fabrics such as silk, organza, voile and viscose, also in combination with adhesive stabilizers

Needle size

NM 60 and NM 70

LEATHER DH



System 130/705 H DH

with cutting point DH (= half triangular point) for easier penetration; for straight stitches on leather, hard synthetic leather or similar materials

Needle size

NM 100

Not suitable for woven or knitted fabrics

LEATHER LL

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System 130/705 H LL

with cutting point LL (= twist point) for easier penetration; for decorative seams with angled stitches on leather, hard synthetic leather or similar materials

Needle size

NM 70 to NM 120, also assorted

Alternative designation

HAx1 LL, 15x2 N TW, 15x2 TW, 130 LL, SY 2032

Not suitable for woven or knitted fabrics

QUILTING

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System 130/705 H-Q

with particularly slim, slightly rounded point that can easily penetrate thick layers without damaging the material; for quilting and patchwork projects

Needle size

NM 75 and NM 90, also assorted

Alternative designation

130/705 H-QU, SY 2019

TOPSTITCH

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System 130/705 H-N

with particularly long needle eye (2 mm in all needle sizes) compared to the Universal or Embroidery Needle; for decorative and topstitching work involving several threads as well as for re-embroidery (repairing embroidery)

Needle size

NM 70 to NM 100, also assorted

Alternative designation

130 N, SY 2011

GOLD TOPSTITCH

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System 130/705 H-NT

with particularly long needle eye (2 mm in all needle sizes) compared to the Universal and Embroidery Needle; longer needle life thanks to wear protection coating; for decorative and topstitching work involving metallic threads or several threads as well as for quilting

Needle size

NM 80 and NM 90

METALLIC

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System 130/705 H-MET

with particularly long needle eye (2 mm in all needle sizes) compared to the Universal or Embroidery Needle; for working with special and effect threads, especially for metallic threads

Needle size

NM 80 and NM 90

Alternative designation

130 MET, 130/705 H-MF

Also available as a twin needle

EMBROIDERY



System 130/705 H-E

with medium ball point; particularly wide needle eye (compared to Universal Needle) and wide thread groove for thicker threads and woolen threads; for embroidery work

Needle size

NM 75 and NM 90, also assorted

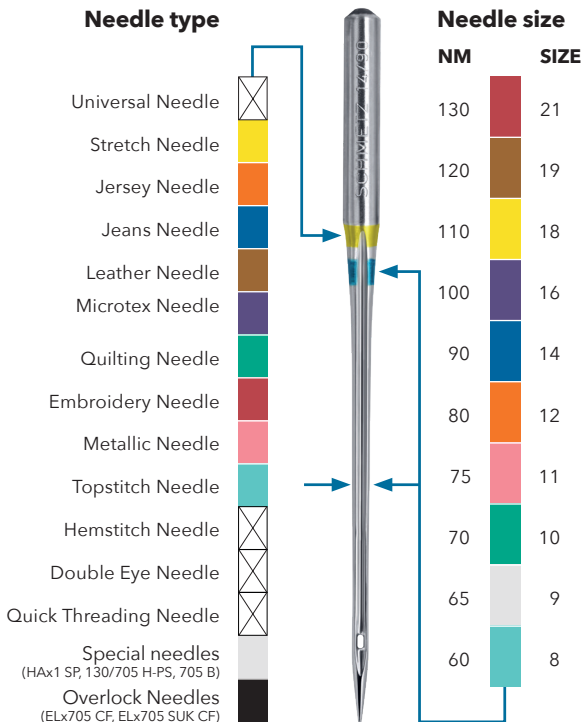
Alternative designation

130/705 H-EB, HAx130 EBBR, SY 2044

Also available as a twin needle

SCHMETZ Color marking

The color code on the shoulder of SCHMETZ household sewing machine needles allows you to quickly identify the needle type and size. The first color identifies the needle type and the second color identifies the needle size.



Note: [X] No color marking is used for this application.
The only color marking is for the size.

GOLD EMBROIDERY



System 130/705 H-ET

with medium ball point; enlarged eye; the wear protection coating ensures a longer needle service life in projects with higher stitch counts; for embroidery with embroidery machines, decorative stitches or free motion embroidery and solid materials

Needle size

NM 75 and NM 90

BLACK SUPER UNIVERSAL

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System 130/705 H-SU

with slightly rounded point; special blade design; the nonstick coating ensures less adhesive residue on the needle and, together with the extra-large eye, prevents thread breakage; the special eye section, in combination with the scarf shape, prevents skipped stitches; for embroidery with self-adhesive non-woven backing and adhesive spray, hook-and-loop tape and for other demanding materials

Needle size

NM 70 to NM 100, also assorted

HEMSTITCH



System 130/705 H-WING

with wing-like widened needle blade that pushes the fabric to the side; for decorative seams and hemstitching in loosely woven fabrics

Needle size

NM 100 and NM 120

Alternative designation

SY 2040

Also available as a twin needle in combination with a Universal Needle

DOUBLE EYE

705 DE

SCHMETZ

DOPPELÖHR
DOUBLE EYE



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System 705 DE

with two eyes; for decorative work with
effect threads

Needle size

NM 80

QUICK THREADING



System 705 HDK

Universal Needle with a small slot on the side of the needle eye that allows the thread to glide into the eye; for quick and easy threading of the needle

Needle size

NM 80 and NM 90

Not suitable for fine, thin or delicate materials

Not suitable for machines with an oscillating hook

Twin and triple needles



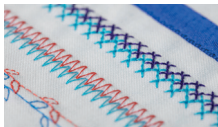
Twin and triple needles are only suitable for zig-zag machines with a transverse hook. Twin needles with features that correspond to the relevant single needle are available for almost all sewing work.

Areas of application

Pintucks, single and multi-colored decorative seams, hems



Here you will find information on the most effective way to use twin and triple needles.



UNIVERSAL TWIN



System 130/705 H ZWI 1.6

Needle distance 1.6 mm

Needle size NM 70 and NM 80

System 130/705 H ZWI 2.0

Needle distance 2.0 mm

Needle size NM 80

System 130/705 H ZWI 2.5

Needle distance 2.5 mm

Needle size NM 80

System 130/705 H ZWI 3.0

Needle distance 3.0 mm

Needle size NM 90

System 130/705 H ZWI 4.0

Needle distance 4.0 mm

Needle size NM 80 to NM 100

UNIVERSAL TWIN EXTRA WIDE



System 130/705 H ZWI BR 6.0

Needle distance 6.0 mm

Needle size NM 100

System 130/705 H ZWI BR 8.0

Needle distance 8.0 mm

Needle size NM 100

Suitable for household sewing machines that have a minimum 6 mm or 8 mm wide recess in the needle plate and presser foot.

STRETCH TWIN

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System 130/705 H-S ZWI 2.5

Needle distance 2.5 mm

Needle size NM 75

System 130/705 H-S ZWI 4.0

Needle distance 4.0 mm

Needle size NM 75

JEANS TWIN



System 130/705 H-J ZWI 4.0

Needle distance 4.0 mm

Needle size NM 100

EMBROIDERY TWIN

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System 130/705 H-E ZWI 2.0

Needle distance 2.0 mm

Needle size NM 75

System 130/705 H-E ZWI 3.0

Needle distance 3.0 mm

Needle size NM 75

METALLIC TWIN

scan me



System 130/705 H-MET ZWI 2.5

Needle distance 2.5 mm

Needle size NM 80

Alternative designation

130 MET ZWI 2,5

System 130/705 H-MET ZWI 3.0

Needle distance 3.0 mm

Needle size NM 90

Alternative designation

130 MET ZWI 3,0

DOUBLE HEMSTITCH



System 130/705 H-WING ZWI 2.5

Needle distance 2.5 mm

Needle size NM 100

Alternative designation

130/705 H ZWIHO 2,5

A Hemstitch Needle in combination with a Universal Needle

UNIVERSAL TRIPLE

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System 130/705 H DRI 2.5

Needle distance 2.5 mm

Needle size NM 80

System 130/705 H DRI 3.0

Needle distance 3.0 mm

Needle size NM 80

Needles for special machines

For special machines such as overlock, longarm, high-speed machines, etc., other needle systems, such as ELx705 CF or 287 WH, whose dimensions and/or characteristics differ from standard household needles, may be needed. Please refer to your machine's instruction manual to select the appropriate needles and thereby ensure that the machine works properly.

Our product portfolio includes an extensive selection of needles for all sewing machine models. Simply scan the QR code to access our portfolio and explore our entire assortment.



Product catalog



Sew your thing.

More information at:
[schmetz.com](https://www.schmetz.com)



SCHMETZ

- A**
- Ajour** Jersey Needle 70 to 90
 - Alcantara** Microtex Needle or Universal Needle 70 to 100
 - Awning cloth** Jeans Needle or Universal Needle 80 to 100; Gold Jeans Needle 90, 100
- B**
- Batiste** Universal Needle or Black Super Fine Needle 60, 70
 - Bedding, jersey** Stretch Needle or Super Stretch Needle 75, 90
 - Bedding, woven fabric** Universal Needle 70 to 100
 - Belseta** Microtex Needle 70 to 90
 - Bouclé** Jersey Needle 70 to 90
 - Brocade** Universal Needle or Microtex Needle 70 to 90
- C**
- Calico** Universal Needle 80 to 100
 - Canvas** Jeans Needle or Universal Needle 90 to 110; Gold Jeans Needle 90, 100
 - Chambray** Universal Needle 80, 90
 - Charmeuse** Black Super Fine Needle 60, 70
 - Chenille** Universal Needle 90
 - Chiffon** Black Super Fine Needle, Universal Needle or Microtex Needle 60, 70
 - Chintz** Universal Needle or Microtex Needle 70 to 90
 - Coat fabrics** Universal Needle 90 to 130
 - Coated materials** Microtex Needle 70 to 110; in the event of residues on the needle: Black

Super Universal Needle 70 to 100

Corduroy Universal Needle or Jeans Needle 80 to 100; Gold Jeans Needle 90, 100

Cork fabric Microtex Needle or Universal Needle 70 to 90

Corsetry fabrics Stretch Needle, Super Stretch Needle or Black Super Stretch Needle 75, 90

Cotton knitwear Jersey Needle 70 to 90; Stretch Needle or Super Stretch Needle 75, 90

Crepe Universal Needle or Microtex Needle 60 to 80; Black Super Fine Needle 60, 70

Crêpe de Chine Universal Needle or Microtex Needle 60 to 80; Black Super Fine Needle 60, 70

Crinkle/crash Universal Needle or Microtex Needle 60 to 80; Black Super Fine Needle 60, 70

Cupro Microtex Needle 60 to 80; Black Super Fine Needle 60, 70

Curtains Universal Needle or Jersey Needle 80, 90

D Decorative seams, multiple colors Double Eye Needle 80; twin needle (special needles are available for the various areas of application) 70 to 100, needle distance 1.6 mm to 8.0 mm; Universal Triple Needle 80, needle distance 2.5 mm or 3.0 mm; Topstitch Needle 70 to 100; Gold Topstitch Needle 80, 90

Decorative seams, three-line Universal Triple Needle 80, needle distance 2.5 mm or 3.0 mm

Decorative seams, two-line Twin needle (special needles are available for the various areas of application) 70 to 100, needle distance 1.6 mm to 8.0 mm

Denim Jeans Needle 70 to 110; Gold Jeans Needle (for frequent sewing) 90, 100; Jeans Twin Needle (for accentuated topstitch seams) 100

Devoré Stretch Needle 65, 75, 90; Black Super Fine Needle 70

Double face Universal Needle 70 to 110

E **Effect threads** Embroidery Needle or Gold Embroidery Needle 75, 90; Metallic Needle or Gold Topstitch Needle 80, 90; Topstitch Needle 70 to 100

Elastic materials Stretch Needle or Super Stretch Needle (for thicker threads) 65, 75, 90; Black Super Stretch Needle (for delicate fabrics) 75, 90

Embroidery Embroidery Needle or Gold Embroidery Needle (for high stitch counts) 75, 90; Topstitch Needle (for thicker or delicate threads) or Black Super Universal Needle (when using adhesive stabilizers) 70 to 100; Gold Topstitch Needle or Metallic Needle (for metallic threads) 80, 90

Embroidery with adhesive stabilizers Black
Super Universal Needle 70 to 100

F **Faux fur** Jersey Needle 80 to 100; Super
Stretch Needle or Black Super Stretch Needle
90

Felt Universal Needle 80 to 100

Fine jersey Stretch Needle or Super Stretch
Needle (for thicker threads) 65, 75; Black Super
Stretch Needle (for delicate fabrics) 75

Flannel Universal Needle 70 to 90

Fleece/thermal velour Universal Needle 70
to 90; Stretch Needle or Super Stretch Needle
(for thicker threads) 75, 90

Foils (plastic foil, synthetic leather, oilcloth)
Microtex Needle 60 to 110

French terry Jersey Needle 80 to 90; Stretch
Needle or Super Stretch Needle (for thicker
threads) 75, 90

G **Gabardine** Universal Needle or Jeans Needle
70 to 100; Gold Jeans Needle 90, 100

Gauze Jersey Needle 70, 80

Georgette (also crêpe Georgette) Universal
Needle or Microtex Needle 60 to 80; Black
Super Fine Needle 60, 70

Gobelin fabric Universal Needle 90

- H**
Half-linen Universal Needle 70, 80
Hemstitches Hemstitch Needle 100, 120;
Double Hemstitch Needle 100
Highly elastic knitwear (containing elastane) Stretch Needle or Super Stretch Needle (for thicker threads) 65, 75; Black Super Stretch Needle (for delicate fabrics) 75
Hook-and-loop tape Black Super Universal Needle 80 to 100
- I**
Imitation fur (fun fur) Jersey Needle or Universal Needle 70 to 100
- J**
Jacquard Universal Needle 80 to 100
Jeans Jeans Needle 70 to 110; Gold Jeans Needle (for frequent sewing) 90, 100; Jeans Twin Needle (for accentuated topstitch seams) 100
Jersey Jersey Needle 70, 80; Stretch Needle (for elastic materials) or Super Stretch Needle (for thicker threads) 65, 75; Black Super Stretch Needle (for delicate fabrics) 75
Jute Universal Needle 80, 90
- K**
Knitted fabric Jersey Needle 70 to 100; Stretch Needle (for elastic materials) or Super Stretch Needle (for thicker threads) 65, 75, 90; Black Super Stretch Needle (for delicate fabrics) 75, 90

Knitted fabric, coarse Jersey Needle 70 to 100

L **Lace** Universal Needle 70 to 90; Stretch Needle, Super Stretch Needle or Black Super Stretch Needle (for delicate materials) 75, 90

Lamé Microtex Needle 60 to 90

Lavable Universal Needle 60 to 90; Black Super Fine Needle 60, 70

Leather (genuine), thick Leather Needle LL (for decorative angled stitches) 100 to 120; Leather Needle DH (for straight stitches) 100

Leather (genuine), thin Leather Needle LL or Microtex Needle 70 to 90

Linen Universal Needle 80, 90

Lingerie Stretch Needle, Super Stretch Needle or Black Super Stretch Needle 75, 90

Loden Universal Needle 80 to 130

M **Metallic sewing/embroidery threads** Metallic Needle or Gold Topstitch Needle 80, 90; Gold Embroidery Needle 75, 90

Microfiber woven fabric Microtex Needle 60 to 90

Muslin Universal Needle 70 to 90

N **Neoprene** Black Super Stretch Needle, Super Stretch Needle or Stretch Needle 75, 90

Nylon Universal Needle or Microtex Needle 60 to 90; Black Super Fine Needle 60, 70

O

Oilcloth Microtex Needle 80 to 100

Oilskin Universal Needle or Jeans Needle 90 to 110; Gold Jeans Needle 90, 100

Organdy Universal Needle, Black Super Fine Needle or Microtex Needle 60, 70

Organza Universal Needle, Black Super Fine Needle or Microtex Needle 60, 70

P

Panne velvet Stretch Needle, Super Stretch Needle or Black Super Stretch Needle 75; Universal Needle 70, 80

Paper Microtex Needle (for a small number of layers) 80, 90; Leather Needle DH (for lots of layers) 100

Patchwork Quilting Needle 75, 90; Topstitch Needle or Microtex Needle 80, 90

Pintucks Twin needle (special twin needles are available for the various areas of application) 70 to 100, needle distance 1.6 to 4.0 mm; Stretch Twin Needle (for elastic materials) 75, needle distance 2.5 mm or 4.0 mm

Polyester Universal Needle or Microtex Needle 60 to 100

Poplin Microtex Needle or Universal Needle 60 to 80; Black Super Fine Needle 60, 70

PUL (polyurethane laminate) Microtex Needle 70 to 90

Q **Quilting** Quilting Needle 75, 90; Topstitch Needle, Gold Topstitch Needle or Microtex Needle 80, 90

R **Reversible** Universal Needle or Jersey Needle 70 to 100

Romanit jersey/Punto di Roma Jersey Needle 70 to 90; Stretch Needle or Super Stretch Needle (for thicker threads) 75, 90

S **Satin** Black Super Fine Needle 60, 70

Scuba fabric Stretch Needle or Super Stretch Needle (for thicker threads) 75, 90; Jersey Needle 80, 90

Seersucker Universal Needle 70 to 90

Sequined fabric Microtex Needle 70 to 90; Stretch Needle or Super Stretch Needle 75, 90

Sewing with self-adhesive stabilizers Black Super Universal Needle 70 to 100; Black Super Fine Needle 60, 70; Black Super Stretch Needle 75, 90

Shirts Universal Needle 70, 80

Shot fabric Universal Needle or Microtex Needle 60 to 80; Black Super Fine Needle 60, 70

Silk Black Super Fine Needle 60, 70; Microtex Needle 60 to 90

Silk jersey Stretch Needle or Super Stretch Needle (for thicker threads) 65, 75; Black Super Stretch Needle 75

Single jersey Stretch Needle or Super Stretch Needle (for thicker threads) 65, 75; Black Super Stretch Needle (for delicate fabrics) 75

Softshell Microtex Needle or Universal Needle 80 to 100

Stretch shirts Stretch Needle, Super Stretch Needle (for thicker threads) or Black Super Stretch Needle (for delicate fabrics) 75

Suits Universal Needle 80, 90

Sweatshirt fabrics Jersey Needle 70 to 90; Stretch Needle or Super Stretch Needle (for thicker threads) 75, 90

Synthetic leather, hard Leather Needle LL (for decorative angled stitches) 100 to 120; Leather Needle DH (for straight stitches) 100

Synthetic leather, soft Microtex Needle or Universal Needle 70 to 100

T **Table linen** Universal Needle 60 to 100

Taffeta Black Super Fine Needle, Microtex Needle or Universal Needle 60, 70

Terry cloth Universal Needle 80, 90

Topstitching work /quilting Quilting Needle 75, 90; Microtex Needle 60 to 90; Topstitch Needle 70 to 90; Gold Topstitch Needle 80, 90

Truck tarpaulin Microtex Needle 90, 100

T-shirt hems/edges Stretch Twin Needle 75, needle distance 2.5 mm or 4.0 mm

Tulle Universal Needle or Jersey Needle 70, 80

Twill Jeans Needle 70 to 110; Gold Jeans Needle 90, 100

V **Velour** Universal Needle 70 to 100

Velour jersey, warp-knitted plush Stretch Needle or Super Stretch Needle 75, 90

Velvet Stretch Needle, Super Stretch Needle (for thick threads) or Black Super Stretch Needle (for delicate fabrics) 75, 90; Universal Needle 70 to 90

Viscose Universal Needle 60 to 80 or Black Super Fine Needle 60, 70

Voile Black Super Fine Needle 60, 70; Universal Needle 60 to 80

W **Washable paper** Microtex Needle or Leather Needle LL 80 to 100; Leather Needle DH 100

Wool/wool blend fabric Universal Needle 70 to 100

Working clothes Jeans Needle 100, 110; Gold Jeans Needle 100

Materials can vary greatly, so these are only general recommendations. SCHMETZ recommends testing the needle on some spare material before starting work.



schmetz.com



Product catalog

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Dealer stamp

