

BERNINA Needles



Top quality – for all brands of household sewing machines

www.bernina.com/needles



made to create

BERNINA

CHOOSING THE RIGHT NEEDLE

The quality and choice of needle have a significant influence on the quality of the sewing and embroidery results.

1. Determine the needle type, based on the material and application (first colored band).
2. Select the appropriate thread. The thickness of the thread determines the size of the needle eye and therefore the needle size (second colored band).

Information on the lid of the needle box



- ← **Needle size**
Open the lid to see the size
- ← **Needle point**
- ← **Needle system**
- ← **Needle type**
- ← **Opening direction**

UNDERSTANDING THE COLOR CODE

In order to help identify the needle size and needle type, certain BERNINA needles have a color code. The first color shows the application and the second color shows the needle size.

Needle type
(fabric/application)

- Universal
- Stretch
- Jersey / Embroidery
- Jeans
- Leather
- Microtex
- Quilting
- Embroidery
- Metafil
- Topstitch
- Fine Fabrics
- Hemstitch
- Double Eye
- Overlock

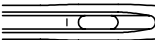



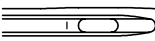




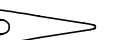
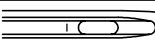

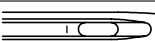

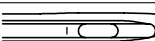

Needle size
(fabric/thread)

NM	SIZE
120	19
110	18
100	16
90	14
80	12
75	11
70	10
60	8



NEEDLE POINTS AND EYE SHAPES

The chart shows the most important needle types classified by needle point and needle eye shape.

Needle type	Needle eye	Needle point
H UNIVERSAL		
H-S		
H SUK		
H-E		
H METAFIL		
H-J		
H-Q		
H-LR		

IMPORTANT: CORRECT NEEDLE THREADING

The right needle-to-thread ratio



The point is the first part of the needle to penetrate the material. The right needle point is essential for a good sewing result.

During sewing and embroidering, the thread slides through the eye of the needle several times at high speed.

It is therefore important to choose the right needle-to-thread ratio: the thread should pass smoothly and snugly through the eye of the needle.

For fine fabrics, it is recommended to use a straight stitch needle plate and a straight stitch foot.



UNIVERSAL NEEDLE



- **System 130/705 H**
With a slightly rounded point, for trouble-free sewing of numerous types of materials.
- **Needle sizes NM 60 to NM 120, also assorted**

Also available as
TWIN and TRIPLE NEEDLE

THE CHOICE OF NEEDLE IS BASED ON THE MATERIAL AND THE APPLICATION

Below is an alphabetical list of various materials and applications, along with the corresponding needle types recommended by BERNINA.

The information in this brochure should be regarded as general guidance only. Always test the needle beforehand on a scrap of material.

STRETCH NEEDLE



- **System 130/705 H-S**
With a medium ball point; the special eye and scarf area prevent skip stitches, especially in highly elastic fabrics.
For elastic materials and highly elastic knitwear.
- **Needle sizes NM 75 and NM 90**
- **Color coding: yellow**

Also available as a
TWIN NEEDLE

A

A jour knitted goods – JERSEY/EMBROIDERY NEEDLE NM 60 to NM 90

Artificial fur (funfur) – JERSEY/EMBROIDERY NEEDLE or UNIVERSAL NEEDLE NM 70 to NM 100

Artificial leather – LEATHER NEEDLE NM 90, NM 100 or JEANS NEEDLE NM 80 to NM 110

B

Bed-linen, jersey – STRETCH NEEDLE NM 75, NM 90

Bed-linen, woven – UNIVERSAL NEEDLE NM 70 to NM 100

Belseta – MICROTEx NEEDLE NM 70 to NM 90

JERSEY / EMBROIDERY NEEDLE



- **System 130/705 H SUK**
With a medium ball point, for knitted fabrics and embroidery.
The ball point does not damage or break knitted fibers.
- **Needle sizes NM 60 to NM 100, also assorted**
- **Color coding: orange**

Bouclé – JERSEY/EMBROIDERY NEEDLE NM 70 to NM 90

Brocade – UNIVERSAL NEEDLE or MICROTTEX NEEDLE NM 60 to NM 90

Burn-out velvet – STRETCH NEEDLE NM 75, NM 90 or FINE FABRICS NEEDLE NM 70 to NM 90

JEANS NEEDLE



- **System 130/705 H-J**
The slim, acute point precisely penetrates thick and solid fabrics. The reinforced blade causes less deflection of the needle and reduces the risk of needle breakage and skip stitches.
For denim (jeans), artificial leather, waxed cloth, film and similar firm fabrics.
- **Needle sizes** NM 80 to NM 110, also assorted
- **Color coding:** blue



- Cambric** – UNIVERSAL NEEDLE NM 60, NM 70
- Canvas** – JEANS NEEDLE NM 90 to NM 110
- Chambray** – UNIVERSAL NEEDLE NM 80, NM 90
- Chenille** – UNIVERSAL NEEDLE NM 90
- Chiffon** – UNIVERSAL NEEDLE or MICROTEX NEEDLE NM 60, NM 70
- Coarse knitted material** – JERSEY/EMBROIDERY NEEDLE NM 80, NM 90
- Coated material** – MICROTEX NEEDLE NM 70 to NM 110 or JEANS NEEDLE NM 100, NM 110
- Coats** – UNIVERSAL PRO NEEDLE NM 90 to NM 110
- Corduroy** – UNIVERSAL NEEDLE NM 80 to NM 100

LEATHER NEEDLE



- **System 130/705 H LR**
With cutting point
(LR = reverse twist point)
for easier penetration.
For leather, artificial leather
or similar materials.
- **Needle sizes NM 90 and
NM 100**
- **Color coding: brown**

Do not use on woven
or knitted fabrics!

Cotton knitwear – JERSEY/EMBROIDERY NEEDLE
NM 70 to NM 90 or STRETCH NEEDLE NM 75, NM 90

Coverstitch – COVER STITCH NEEDLE NM 90

Crêpe – UNIVERSAL NEEDLE or MICROTEx NEEDLE
NM 60 to NM 80

Crêpe-de-Chine – UNIVERSAL NEEDLE or MICROTEx
NEEDLE NM 60 to NM 80

Crinkle – UNIVERSAL NEEDLE or MICROTEx NEEDLE
NM 60 to NM 80

Cupro – MICROTEx NEEDLE NM 60 to NM 80

Curtains – UNIVERSAL NEEDLE or JERSEY/
EMBROIDERY NEEDLE NM 80, NM 90

MICROTEX NEEDLE



- **System 130/705 H-M**
With a slim, acute point for precise piercing of very fine or densely woven materials. For particularly precise stitching when topstitching edges; also for silk, micro-fiber fabrics, coated and film materials.
- **Needle sizes NM 60 to NM 110, also assorted**
- **Color coding: purple**



Denim – JEANS NEEDLE NM 80 to NM 110
Decorative seams – HEMSTITCH NEEDLE NM 100, NM 120 or DOUBLE EYE NEEDLE NM 80 or TWIN NEEDLE (special needles are available for the different applications) NM 70 to NM 100, NE 1.6 mm to 8.0 mm or **TRIPLE NEEDLE NM 80, NE 3.0 mm**
Double decorative seams – TWIN NEEDLE (special needles are available for the different applications), NM 70 to NM 100, NE 1.6 mm to 8.0 mm
Double face – UNIVERSAL NEEDLE NM 70 to NM 110

QUILTING NEEDLE



- **System 130/705 H-Q**
With a very slim, slightly rounded point which easily penetrates thick layers without damaging the material.
For stitching/topstitching tasks, such as quilting and patchwork.
- **Needle sizes** NM 75 and NM 90, also assorted
- **Color coding:** green

E

Elastic material – STRETCH NEEDLE NM 75, NM 90
Embroidering – EMBROIDERY NEEDLE NM 75, NM 90 or JERSEY/EMBROIDERY NEEDLE NM 70, NM 90 or METAFIL NEEDLE NM 80

F

Fancy threads, decorative threads – EMBROIDERY NEEDLE NM 75, NM 90 or METAFIL NEEDLE NM 80
Felt – UNIVERSAL NEEDLE NM 80 to NM 100
Felting – FELTING NEEDLE
Film (vinyl, artificial leather, waxed cloth) – MICROTUX NEEDLE NM 60 to NM 110 or JEANS NEEDLE NM 80 to NM 110

EMBROIDERY NEEDLE



- **System 130/705 H-E**
With a light ball point and a particularly wide eye and groove compared to the JERSEY / EMBROIDERY NEEDLE, to accommodate voluminous and woolen threads.
For embroidery.
- **Needle sizes NM 75 and NM 90, also assorted**
- **Color coding: red**

Fine jersey – STRETCH NEEDLE NM 75

Fleece – UNIVERSAL NEEDLE NM 70 to NM 90 or STRETCH NEEDLE NM 75, NM 90

Fleece, multilayer – UNIVERSAL PRO NEEDLE NM 90 to NM 110

Foundation garments – STRETCH NEEDLE NM 75, NM 90 or JERSEY/EMBROIDERY NEEDLE NM 70 to NM 90

Fur – UNIVERSAL NEEDLE NM 70 to NM 100 or JERSEY/EMBROIDERY NEEDLE NM 70 to NM 90

FINE FABRICS NEEDLE



- **System 130/705 H SES**
With a light ball point for fine, delicate materials, such as velvet.
- **Needle sizes NM 70 to NM 90**, also assorted

G

Gabardine – UNIVERSAL NEEDLE NM 70 to NM 100

Gauze – FINE FABRICS NEEDLE NM 70, NM 80

Georgette (as well as Crêpe Georgette) –
UNIVERSAL NEEDLE or MICROTEX NEEDLE NM 60
to NM 80

H

Half linen – UNIVERSAL NEEDLE NM 70, NM 80

Hemstitching – HEMSTITCH NEEDLE NM 100,
NM 120 or HEMSTITCH TWIN NEEDLE NM 100

Highly elastic knitted material (Lycra, silk jersey)
– STRETCH NEEDLE NM 75

METAFIL NEEDLE



- **System 130/705 H METAFIL**
With a very long eye (2 mm in all needle sizes) compared to the UNIVERSAL or EMBROIDERY NEEDLE. For sewing with special effects and fancy threads, especially metallic threads.
- **Needle size NM 80**
- **Color coding:**
antique pink



Jacquard fabric – UNIVERSAL NEEDLE NM 80 to NM 100

Jeans – JEANS NEEDLE NM 80 to NM 110

Jeans, multilayer – JEANS PRO NEEDLE NM 80 to NM 100

Jersey – JERSEY/EMBROIDERY NEEDLE NM 70, NM 80, for elastic materials STRETCH NEEDLE NM 75

TOPSTITCH NEEDLE



- **System 130/705 H-N**
With a very long eye (2 mm in all needle sizes) compared to the UNIVERSAL or EMBROIDERY NEEDLE. For decorative stitching and topstitching with multiple or heavy weight threads. Also for when experiencing skipped stitches in embroidery.
- **Needle sizes** NM 80 to NM 100
- **Color coding:** light green

K

Knitted fabric – JERSEY/EMBROIDERY NEEDLE NM 70 to NM 100

Knitwear – JERSEY/EMBROIDERY NEEDLE NM 70 to NM 90, for elastic materials STRETCH NEEDLE NM 75, NM 90

L

Lace – Select needle individually to suit material, NM 60 to NM 90

Lamé – MICROTEx NEEDLE NM 60 to NM 90

Lavable – UNIVERSAL NEEDLE NM 60 to NM 90

FELTING NEEDLE



- **System PUNCH**
Needle with barbs for felting a variety of yarns and threads into base fabrics. Replacement needles for the BERNINA PunchWork set.

Leather – thick, hard artificial leather – LEATHER NEEDLE NM 100 or JEANS PRO NEEDLE NM 100

Leather – thin – LEATHER NEEDLE NM 90 or JEANS NEEDLE NM 90

Linen – UNIVERSAL NEEDLE NM 80, NM 90

Loden (woolen felted fabric) – UNIVERSAL NEEDLE NM 80 to NM 120

Lycra – STRETCH NEEDLE NM 75, NM 90 or JERSEY/ EMBROIDERY NEEDLE NM 70 to NM 90



HEMSTITCH NEEDLE



- **System 130/705 H WING**
With a “wing” on each side of the needle blade, which pushes the fabric aside. For decorative seams and hemstitching in loosely woven fabrics.
- **Needle sizes NM 100 and NM 120**

Also available as a
TWIN NEEDLE together with
a **UNIVERSAL NEEDLE**.



Metallic threads – METAFIL NEEDLE NM 80

Microfiber fabric – MICROTEX NEEDLE NM 60 to NM 90

Multi-colored decorative seams – DOUBLE EYE NEEDLE NM 80 or TWIN NEEDLE (special needles are available for the different applications) NM 70 to NM 100, NE 1.6 mm to 8.0 mm or TRIPLE NEEDLE NM 80, NE 3.0 mm

DOUBLE EYE NEEDLE



- **System 130/705 DE**
With two eyes, for decorative sewing using fancy threads.
- **Needle size NM 80**



Nettle fabric – UNIVERSAL NEEDLE NM 80 to NM 100
Nylon – UNIVERSAL NEEDLE or MICROTEx NEEDLE NM 60 to NM 90



Organdy (glass cambric) – UNIVERSAL NEEDLE or MICROTEx NEEDLE NM 60, NM 70
Organza – UNIVERSAL NEEDLE or MICROTEx NEEDLE NM 60, NM 70
Overlock seams, trimming seams – There are different needle systems, see machine manufacturer's information

COVER STITCH NEEDLE



- **System ELX705 CF**
With a second groove, which is required for trouble-free coverstitch seams. The chrome coating gives the needle a wear-resistant surface. For coverstitching and serging on multilayer, elastic fabrics.
- **Needle size NM 80 and NM 90, assorted**
- **Color coding: black**



Panne velvet – FINE FABRICS NEEDLE NM 70, NM 80 or STRETCH NEEDLE NM 75 or UNIVERSAL NEEDLE NM 70, NM 80

Patchwork – QUILTING NEEDLE NM 75, NM 90

Pintucks – TWIN NEEDLE (special TWIN NEEDLES are available for the different applications) NM 70 to NM 100, NE 1.6 to 4.0 mm; for elastic materials:

STRETCH TWIN NEEDLE NM 75, NE 2.5 mm or 4.0 mm

COVER STITCH NEEDLE



- **System ELX705 SUK CF**
With medium ball point to protect the material when the needle pierces in the material. The chrome coating decreases wear and tear of the needle. For coverstitching and serging on multilayer, elastic fabrics.
- **Needle size NM 80 and NM 90, assorted**
- **Color coding: black**

Polyester – UNIVERSAL NEEDLE or MICROTEx NEEDLE
NM 60 to NM 100

Poplin – MICROTEx NEEDLE or UNIVERSAL NEEDLE
NM 60 to NM 80

TWIN AND TRIPLE NEEDLES



Only for zigzag machines with transversal hook!

TWIN and TRIPLE NEEDLES are also available for special applications. They have the same characteristics as the equivalent single needles.

Applications: pintucks, single-color and multi-colored decorative seams, hems.

Q

Quilting – QUILTING NEEDLE NM 75, NM 90

R

Reversible – UNIVERSAL NEEDLE or JERSEY/ EMBROIDERY NEEDLE NM 70 to NM 100

S

Seersucker – UNIVERSAL NEEDLE NM 70 to NM 90

Sequined material – MICROTUX NEEDLE NM 70 to NM 90 or STRETCH NEEDLE NM 75, NM 90

Serging (overlock seams) – There are different needle systems, see machine manufacturer's information

Shirts – UNIVERSAL NEEDLE NM 70, NM 80

UNIVERSAL TWIN NEEDLE



- System 130/705 H ZWI 70/1.6
 - System 130/705 H ZWI 80/2.0
 - System 130/705 H ZWI 80/2.5
 - System 130/705 H ZWI 90/3.0
 - System 130/705 H ZWI 80/4.0
 - System 130/705 H ZWI 90/4.0
 - System 130/705 H ZWI 100/4.0
 - System 130/705 H ZWI 100/6.0
 - System 130/705 H ZWI 100/8.0
-
- Needle distance NE 1.6 to NE 8.0 mm
 - Needle sizes NM 70 to NM 100

Shirts with elastic threads – STRETCH NEEDLE NM 75
Silk – MICROTEX NEEDLE NM 60 to NM 90
Silk jersey – STRETCH NEEDLE NM 75
Single jersey – STRETCH NEEDLE NM 75
Suits – UNIVERSAL NEEDLE NM 80, NM 90
Sweatshirt fabrics – JERSEY/EMBROIDERY NEEDLE
NM 70 to NM 90 or JERSEY/EMBROIDERY PRO NEEDLE
NM 80, NM 90

STRETCH TWIN NEEDLE



(Color coding only on card, not on needle)

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

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

- Color coding: yellow



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

Thermovelour (fleece) – UNIVERSAL NEEDLE NM 70 to NM 90 or STRETCH NEEDLE NM 75, NM 90

Topstitching – QUILTING NEEDLE NM 75, NM 90 or MICROTEX NEEDLE NM 60 to NM 90

Triple decorative seams – TRIPLE NEEDLE NM 80, NE 3.0 mm

HEMSTITCH TWIN NEEDLE



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

1 UNIVERSAL NEEDLE
together with 1 HEMSTITCH
NEEDLE

T-Shirt – hems and edges – STRETCH TWIN NEEDLE
NM 75, NE 2.5 mm or 4.0 mm

Tulle – UNIVERSAL NEEDLE or JERSEY/EMBROIDERY
NEEDLE NM 70, NM 80

Twill – JEANS NEEDLE NM 80 to NM 110

UNIVERSAL TRIPLE NEEDLE



- System
130/705 H DRI 80/3.0
- Needle distance
NE 3.0 mm
- Needle size NM 80



- Velour** – FINE FABRICS NEEDLE NM 70 to NM 90
- Velour jersey** – STRETCH NEEDLE NM 75, NM 90 or FINE FABRICS NEEDLE NM 80, NM 90
- Velvet** – FINE FABRICS NEEDLE NM 70 to NM 90 or 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

UNIVERSAL PRO NEEDLE



- **System 130/705 H PRO**
With an elongated groove and slightly rounded point, for problem-free sewing, particularly of thick, multi-layer fabrics.
- **Needle sizes NM 90 to NM 110**



Waxed cloth – MICROTEx NEEDLE or JEANS NEEDLE
NM 80 to NM 100

WING-needle – HEMSTITCH NEEDLE NM 100, NM 120

Wool and wool blends – UNIVERSAL NEEDLE
NM 70 to NM 100

Wool and wool blends, multilayer – UNIVERSAL
PRO NEEDLE NM 90 to NM 110

Workwear – JEANS NEEDLE NM 100, NM 110



JEANS PRO NEEDLE



*(Color coding only
on card, not on needle)*

- **System 130/705 H-J PRO**
The elongated groove and slim, acute point make it easier to sew solid, thick and multi-layer fabrics. The reinforced blade causes less deflection of the needle and reduces the risk of needle breakage and skip stitches. For denim (jeans) and similar firm fabrics.
- **Needle sizes NM 80 to NM 100**
- **Color coding: blue**



ZWIHO – HEMSTITCH TWIN NEEDLE NM 100

JERSEY / EMBROIDERY PRO NEEDLE



*(Color coding only
on card, not on needle)*

- **System**
130/705 H SUK PRO
With an elongated groove and medium ball point, for knitted fabrics and embroidery. Especially suitable for thick and multilayer fabrics due to the long groove.
- **Needle sizes** NM 80 to NM 100
- **Color coding:** orange

GLOSSARY – FREQUENTLY USED ABBREVIATIONS AND TERMS

NE – Distance in mm between the needles for TWIN and TRIPLE NEEDLES

NM – Metric needle size, e.g. NM 80 = 0.8 mm blade diameter

HOW TO RECOGNISE PRO NEEDLES



PRO

Groove: This serves to guide the needle thread to the eye and protects the thread as the needle pierces the fabric. The length and width of the groove depend on the needle system. PRO NEEDLES have a longer groove to help prevent the occurrence of skip stitches and thread breakages with multiple or thick fabric layers.

NEEDLES FOR SPECIAL MACHINES



Universal and Cover Stitch Needles can be used on BERNINA coverstitch machines and overlockers. The PRO needles with a longer groove are ideal for BERNINA longarm quilting machines. Besides flat shank needles (130/705 H) for household sewing machines, BERNINA also offers round shank needles (134 and 287 WH) for special machines.





You will achieve the best sewing results by changing your needle on a regular basis. Skipped stitches and thread breakages are an indication that the needle needs to be changed.

BERNINA needles have the name BERNINA and their needle size marked on the shank.

**More information is available at
www.bernina.com/needles**

BERNINA