

# BERNINA Needles



Top quality – for all brands of household sewing machines

[www.bernina.com/needles](http://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).

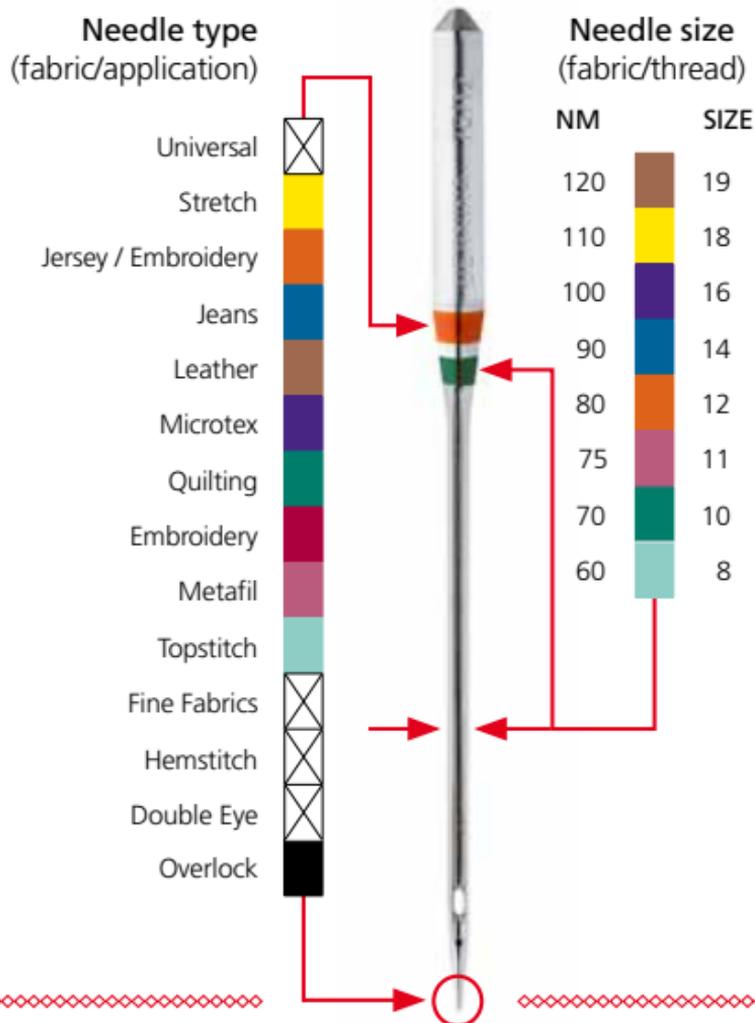
### Information on the lid of the needle box



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

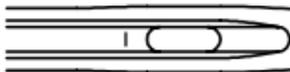
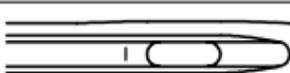
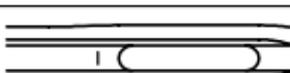
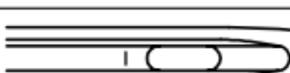
# UNDERSTANDING THE COLOR CODE

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 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 MICROTEX 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 slime, 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

**D**

**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)** – MICROTEx 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 70 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**

**N**

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

**O**

**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 90**
- **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

**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** – MICROTEx 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



- 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

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



**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](http://www.bernina.com/needles)**

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