BERNINA
790 PLUS | 770 QE

Endless Possibilities for Grand Ideas

SEWING, QUILTING AND EMBROIDERY AT THEIR FINEST

- BERNINA HOOK FOR METICULOUS STITCHES
- BERNINA STITCH REGULATOR
- BERNINA DUAL FEED
- EXTRA LARGE BOBBIN
- SIMPLE AND MODERN OPERATION

PLUS

made to create BERNINA

Beautiful Embroidery is Simple

Both the B 790 PLUS and B 770 QE can embroider, though the B 790 PLUS offers even more features and options for embroidery lovers. Switch to embroidery mode directly via the touch screen. Embroidery mode lets you easily position, mirror, rotate, combine and resize motifs. Design editing on the B 790 PLUS offers a wealth of additional options, allowing you to create curved lettering effects, alter stitch density, and combine decorative stitches with embroidery designs or create beautiful, endless embroidery designs. With both models, complex combinations can even be resequenced according to color, and alternative color options can be reviewed before stitching out. The finished design can be saved directly on the machine or on a USB stick. What's more, further designs can be imported to the machine via the USB port. The Check function lets you position the design precisely before embroidering. The embroidery module comes standard with the B 790 PLUS, and is available as an optional accessory for the B 770 QE.

Create Your Own Stitches *(B 790 PLUS only)*

The B 790 PLUS features a very special innovative function: the Stitch Designer. Create your own stitches by drawing your ideas right on the touch screen. With a click, the B 790 PLUS transforms your design into a stitch pattern or alters existing stitches as you wish. Save your very own stitch creations to expand your stitch library.

The B 790 PLUS includes an **embroidery module** with extra-large embroidery area (400 mm × 210 mm, 15.7" × 8.3").
(Optional with the B 770 QE.)

Tips and Tricks

The Sewing and Embroidery Consultants and built-in tutorials offer direct on-screen support and answers to your questions whenever you need them.

Includes **Stitch Designer** and **BSR functionality**

Multi-function knobs

30 bright **LED lights**

A full 13-inch (330 mm) **extended freearm** including 10 inches (254 mm) of space to the right of the needle

Color **7-inch display** with easy navigation and **modern touch screen** technology (e. g. Drag & Drop and Swipe functions)

BERNINA Free Hand System (FHS)

Great New Embroidery Features

Enhanced Editing (B 790 PLUS only)

Pinpoint Placement
Place your design on the fabric exactly where you want it—quickly and precisely. No need to use the template anymore.

Undo & Redo
Simply undo or redo steps while editing or combining designs to return to your initial position.

Group & Ungroup
Combine designs to edit all at one time with group. Break apart designs to edit individually with ungroup.

Rearrange
Customize the design layer stitch-out sequence. Use rearrange in combination with the group function.

Easy to Use

Embroidery Consultant
The consultant helps you to choose the correct foot, needle, thread and stabilizer according to your fabric to achieve the best results.*

Toggle Between mm & Inches
The embroidery design size and the hoop dimensions can be shown in mm or inches.

Read Multiple Formats
Read most popular file formats:
EXP, DST, PES, PEC, JEF, SEW, PCS, XXX.

Total Stitch Control

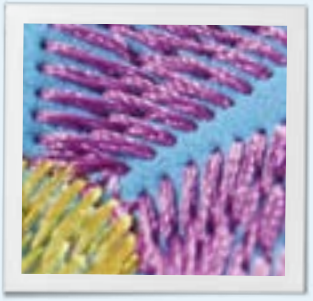
Thread Away Mode
Pulls the threads to the underside for clean embroidery results on the top. Program jump stitch length to manage thread cuts. Subject to design properties.

Midi Hoop, Designs & Alphabets

BERNINA Midi Hoop
New, optional embroidery hoop with twist-lock mechanism for easy and confident hooping.
Size: 265 x 165 mm, 10.5 x 6.5 inches

Designs
Dozens of new embroidery designs, including: monograms with frames, in-the-hoop projects and special technique designs.*

Alphabets
Includes newly digitized embroidery alphabets like Curly, Happy Times, Deco or Rounded.*



Invisible & Smart Secure
Securing stitches become invisible as the tie-on/off stitches are sewn in stitch direction. Smart secure adds tie-on/off stitches to a design, if none are preset.

*B 790 PLUS only

BERNINA Quality

For decades, BERNINA has been passionately committed to the development of sewing and embroidery machines. Swiss precision is at the heart of our products. High-quality materials guarantee a long product life and high performance.

The BERNINA 770 QE and 790 PLUS offer a wealth of features that make sewing easier. Inventions such as the semi-automatic threading system, the BERNINA Stitch Regulator (BSR) and the remarkable, easy-to-use embroidery system with especially large embroidery area testify to a great spirit of innovation. The BERNINA 7 Series is visually stunning with its simple yet exclusive design—because we concentrate not only on sophisticated technologies, but also on setting new standards in product design.

Slide speed control
Sewing speed up to
1,000 stitches per minute

Direct-selection buttons:
– Start/stop button
– Raise and lower the presser foot
– Automatic thread cutter
– Reverse sewing

Semi-automatic threading

Practical **extension table** included

BERNINA Dual Feed

Integrated embroidery function
Simply add the optional embroidery module to the B 770 QE to activate.

The **BERNINA Hook with 9 mm stitch width** allows you to sew precise stitches at faster speeds yet quieter than ever before. The extra-large bobbin can hold up to 70 % more thread than standard bobbins, allowing you to sew with fewer interruptions.

Easy navigation on a centrally located **color touch screen**

BERNINA Stitch Regulator (BSR) included

Tula Pink, US Quilt Artist and Fabric Designer, for BERNINA

Tula Pink plays with images the way a poet plays with words, turning innocuous traditional designs into mischievous little creations. Tula's love affair with textiles began early and an obsession with sewing soon followed. Tula began quilting in an effort to use up her ever-growing stash of fabric so that she could justify buying more. Today, 16 years later, she is a renowned designer and quilter. Tula Pink has designed a quilt from her "Moonshine" fabric collection exclusively for BERNINA.

"Next to my passion for my designs, I'm equally passionate about BERNINA. The BERNINA 770 QE gives me the space I need for quilting, plus the Stitch Regulator can't be beat for even stitches."

A full 13-inch (330 mm) **extended freearm** including 10 inches (254 mm) of space to the right of the needle

BERNINA Free Hand System (FHS)

7 Things You'll Love About the BERNINA 7 Series:

The BERNINA Stitch Regulator (BSR)

The BERNINA 790 PLUS and 770 QE are both equipped with the BSR function. The BSR foot assists you with free-motion sewing and quilting with a straight or zigzag stitch, ensuring stitches of the exact same length even at variable sewing speeds. Beginners quickly gain confidence with the BSR, while experienced quilters acquire additional self-assurance. The BSR foot comes in the standard accessories package of both the B 790 PLUS and B 770 QE.

Extended Freearm for Grand Ideas

The BERNINA 7 Series includes a meticulously engineered extended freearm with 10 inches (254 mm) of space to the right of the needle. Not only do the B 790 PLUS and B 770 QE provide you with ample space for big, beautiful sewing and embroidery projects, with their 9 mm stitch width, they are also ideally suited for decorative stitching. The extra-large embroidery module (optional with the B 770 QE) lets you stitch out maxi-sized motifs. And should your ambitions grow, both models can be updated with a wealth of accessories.

BERNINA Dual Feed

The innovative BERNINA Dual Feed tames hard-to-manage fabrics providing superb fabric feed and optimum visibility while sewing. Easy to engage when needed, the BERNINA Dual Feed tucks completely out of the way when it's not required.

Total Stitch Control

All BERNINA 7 Series models provide an exclusive level of stitch control. Whether you are altering stitch length, stitch width or needle position, the machine will remember the details for you. Your personal settings can be saved and retrieved and the USB interface allows you to import and export stitches and stitch patterns or combinations.

BERNINA Adaptive Thread Tension

The BERNINA Adaptive Thread Tension, a BERNINA innovation, provides ideal thread tension while sewing to achieve perfect stitch quality on both sides of the fabric. Once the tension is set according to the thread and fabric used, BERNINA Adaptive Thread Tension will constantly check the thread tension, adjusting it automatically when needed. The result is the finest stitching without pressing a button.

Sew with Even Greater Ease

The B 790 PLUS and B 770 QE accomplish many tasks all by themselves. The presser foot lowers automatically at the beginning of a seam. Threading is semi-automatic, and the thread is cut automatically when you reach the end of a seam, or when you wish to change colors while embroidering. Moreover, a practical extension table, which yet again significantly increases your work area, is included in the standard package.

The BERNINA Hook

With the launch of the 7 Series, BERNINA introduced a world first, the BERNINA Hook. This latest BERNINA innovation uniquely combines the advantages of the two best hook technologies and is patented.

The heart of the BERNINA 7 Series features a novel, centrally placed driver, which allows the BERNINA Hook to run fast yet quietly. The BERNINA Hook sews high-precision stitches up to 9 mm in width with speeds up to 1,000 stitches per minute. The bobbin holds up to 70% more thread than standard bobbins, allowing you to sew longer without interruption.

Finally, the BERNINA Hook is made of high-quality materials that allow the thread to run smoothly at consistent tension.

BERNINA—made to create.

Features and Functions of the BERNINA 770 QE and 790 PLUS

General Information	B 770 QE	B 790 PLUS
Hook system	BERNINA Hook	BERNINA Hook
Maximum sewing speed (stitches per minute)	1,000	1,000
Length of freearm to the right of the needle	10 inches	10 inches
Color touch screen	4.3 inches	7 inches
LED sewing light	30 LED lights	30 LED lights
Maximum stitch width	9 mm	9 mm
Maximum stitch length	6 mm	6 mm
Needle positions	11	11
Sewing in every needle position	✓	✓
Number of spool holders	2	2
Semi-automatic needle threader	✓	✓
Adjustable presser foot pressure	✓	✓
Automatic thread cutter	✓	✓
Manual thread cutters	3	3
BERNINA Dual Feed	✓	✓
BERNINA Adaptive Thread Tension	✓	✓
Memory (short-term/altered stitches)	✓	✓
Memory (long-term/altered stitches)	✓	✓
Create and save stitch combinations	✓	✓
BSR functionality (straight stitch and zigzag)	✓	✓
Start/stop button (stitching without foot control)	✓	✓
Slide speed control	✓	✓
Upper thread indicator	✓	✓
Lower thread indicator	✓	✓
USB interface for PC connection	✓	✓
Import/export stitches and stitch patterns via USB	✓	✓
Multi-function knobs	✓	✓
Changing stitch settings while sewing	✓	✓
BERNINA foot control with back-kick function	✓	✓
Needle stop up/down	✓	✓
Bobbin winding while sewing/embroidering	✓	✓
On-screen help	✓	✓
Sewing tutorial	✓	✓
Creative consultant	✓	✓
Personal program	✓	✓
History function (previously used stitch patterns)	–	✓
Setup program	✓	✓
Eco mode	✓	✓

Sewing and Quilting	B 770 QE	B 790 PLUS
360° directional sewing	–	✓
Sideways motion feed	–	✓
Stitch Designer	–	✓
Pattern start/end function	✓	✓
Connecting stitches	–	✓
Elongation	✓	✓
Security function program	✓	✓
Total number of stitch patterns (incl. alphabet)	992	1,352
Utility stitches total	30	32
Buttonholes (incl. eyelets) total	13	15
Automatic buttonhole length measuring system	✓	✓
Automatic buttonhole	✓	✓
Manual multi-step buttonhole	✓	✓
Button sew-on program	✓	✓
Darning programs	2	2
Decorative stitches total	283	506
Decorative sideways motion stitches total	–	117
Quilting stitches	50	34
Sewing alphabets	6	8
Monogram (with sideways motion)	–	✓

Standard Sewing and Quilting Accessories	B 770 QE	B 790 PLUS
BERNINA presser feet included	7	10
Reverse pattern foot #1C	✓	✓
Dual Feed reverse pattern foot #1D	✓	✓
Overlock foot #2A	–	✓
Buttonhole foot with slide #3A	✓	✓
Zipper foot #4D	✓	✓
Blindstitch foot #5	–	✓
Jeans foot #8D	–	✓
Open embroidery foot #20C	✓	✓
Sideways motion foot #40C	–	✓
Patchwork foot #97D	✓	–
BERNINA Stitch Regulator (BSR)	✓	✓
BERNINA Free Hand System (FHS)	✓	✓
BERNINA slide-on freearm extension table	✓	✓
Dust cover	✓	✓
Accessory box	✓	✓

Embroidery	B 770 QE	B 790 PLUS
Large embroidery module	optional	✓
Maximum embroidery field	400 × 210 mm 15.7" x 8.3"	400 × 210 mm 15.7" x 8.3"
Maximum embroidery speed (stitches per minute)	1,000	1,000
Built-in embroidery designs (including **NEW** designs)	140	**332**
Embroidery alphabets (including **NEW** alphabets)	6	**18**
NEW Embroidery design format	EXP, DST, PES, PEC, JEF, SEW, PCS, XXX	
On-screen editing of designs: positioning, mirroring, rotating, scaling, **combining**	✓	✓
NEW Pinpoint Placement	–	✓
Endless embroidery	–	✓
NEW Undo/Redo	–	✓
NEW Group/Ungroup	–	✓
NEW Rearrange embroidery designs in combination	–	✓
NEW Color Wheel	–	✓
NEW Invisible Secure	✓	✓
NEW Smart Secure	✓	✓
NEW Thread-up Command	✓	✓
NEW Programmable jump stitch cutting	✓	✓
NEW Thread Away Mode	✓	✓
WordART	–	✓
Personal memory for embroidery designs	✓	✓
Importing stitch patterns	✓	✓
Freearm embroidery	✓	✓
Color resequence	–	✓
Sequence control	✓	✓
Basting in the hoop	✓	✓
Position recall	✓	✓
Embroidery tutorial	✓	✓
NEW Embroidery Consultant	–	✓
Automatic hoop recognition	✓	✓
Midi Hoop functionality (embroidery field: 265 × 165 mm, 10.5" × 6.5")	✓	✓
Mega Hoop functionality (embroidery field: 400 × 150 mm, 15.7" × 5.9")	✓	✓
Maxi Hoop functionality (embroidery field: 400 × 210 mm, 15.7" × 8.3")	✓	✓
Jumbo Hoop functionality (limited embroidery field: 400 × 210 mm, 15.7" × 8.3")	✓	✓
BERNINA Embroidery Software compatible	✓	✓
BERNINA DesignWorks Software & Tools compatible	✓	✓
BERNINA PunchWork Tool compatible	✓	✓

Standard Embroidery Accessories (included with Embroidery Module)	B 770 QE	B 790 PLUS
Embroidery presser foot #26	✓	✓
Embroidery hoop large oval with template (255 × 145 mm, 10.0" × 5.7")	✓	✓
Embroidery hoop medium oval with template (130 × 100 mm, 5.1" × 3.9")	✓	✓
Embroidery hoop small oval with template (72 × 50 mm, 2.8" × 2")	✓	✓
BERNINA embroidery software ArtLink (download at bernina.com)	✓	✓

We reserve the right to make changes to machine features, equipment, and design. Additional information is available at your local BERNINA Store.

bernina.com/7series

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