

BERNINA 7 SERIES

# MAKE IT YOURS. GO ULTRA



**BERNINA** *made to create*

# B 790 ULTRA

Ultra precise. Ultra creative. Ultra innovative.

As the top model of the BERNINA 7 Series, the new **BERNINA 790 ULTRA** takes sewing, quilting, and embroidery to an entirely new level. It invites you to go beyond limits and experience the joy of creating without compromise.

Quilters, garment sewists, and embroidery enthusiasts alike will be inspired by innovative features such as the BERNINA Integrated Stitch Regulator (BISR), Stitch Plate Recognition, Jumbo Stitch, 3-Point Placement and new Computerised Quilting Features, making creative dreams come true with ease and precision.

Explore new creative paths, discover new adventures in design – and go ULTRA.

## NEW: INTEGRATED STITCH REGULATOR

The BERNINA Integrated Stitch Regulator (BISR) on the B 790 ULTRA ensures perfectly even stitch lengths for all quilting applications including ruler work. It is fully compatible with all BERNINA quilting presser feet and works seamlessly in all BSR modes.

## NEW: STITCH PLATE RECOGNITION

The B 790 ULTRA automatically recognizes the stitch plate in use\*. It comes with a set of 3 stitch plates: the 9 mm Standard Stitch Plate with Sensor, the Straight Stitch Plate with Sensor and the BISR / 5.5 mm Stitch Plate with Sensor.

## NEW: JUMBO STITCH

With Jumbo Stitch, the B 790 ULTRA lets you enlarge stitches up to 500% – perfect for striking decorative effects.

## NEW: HELP CENTER

The Help Center on the B 790 ULTRA puts expert guidance where you need it. It gives you instant access to the User Manual, Quick Start Guide, and the Creative Consultant. Need help while sewing, quilting, or embroidering? Simply scan a QR code to follow tutorials on your smartphone or tablet.

## BERNINA PINPOINT LASER

Enjoy pinpoint precision by seeing exactly where the needle will enter the fabric in every needle position. The BERNINA Pinpoint Laser marks your start and travel points as you sew and embroider.

## AUTOMATIC NEEDLE THREADER

The Automatic Needle Threader helps you to get started with the next thread. Conveniently and quickly, every single time.

## STITCH DESIGNER

Create your own stitches by drawing your ideas right on the touch screen. With a touch, the B 790 ULTRA transforms your design into a stitch pattern or alters existing stitches as you wish.

Explore the B 790 ULTRA  
with Brigitte – scan  
QR code to watch video



\*Only stitch plates with sensor are recognized.



“The B 790 ULTRA inspires me to go for new adventures.”

**BRIGITTE HEITLAND OF ZEN CHIC,**  
FABRIC & PATTERN DESIGNER FROM GERMANY

# B 790 ULTRA

Ultra Versatility for All Applications

**Slide speed control**  
Sewing and embroidery speeds  
up to 1,000 stitches per minute

**Colour 7-inch display** with  
easy navigation and easy to use  
touch screen technology

**NEW: Special, matte faceplate  
with a diamond pattern**

**WiFi**

**Automatic  
Needle Threader**

**BERNINA Dual Feed**

The B 790 ULTRA includes the  
**BERNINA embroidery module L**  
with **SDT** and extra-large embroidery  
area (400 mm x 210 mm, 15.7" x 8.3")



**BERNINA Hook with  
9 mm stitch width**

**NEW: Stitch Plate  
Recognition**



Scan QR code to learn more about the B 790 ULTRA



**BERNINA**  
SWISS ENGINEERING

30 bright LED lights

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

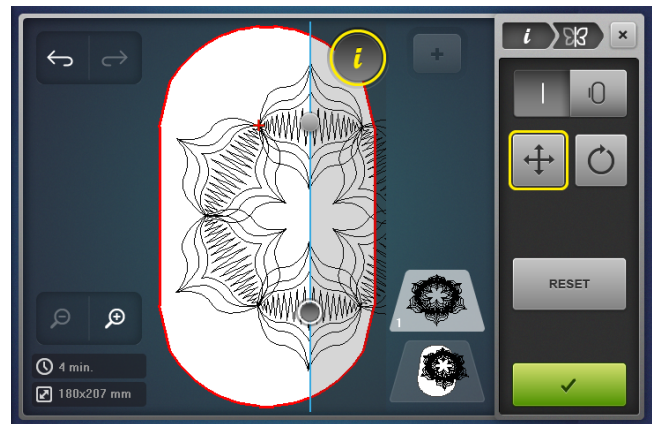
BERNINA Free Hand System (FHS)

BERNINA Pinpoint Laser

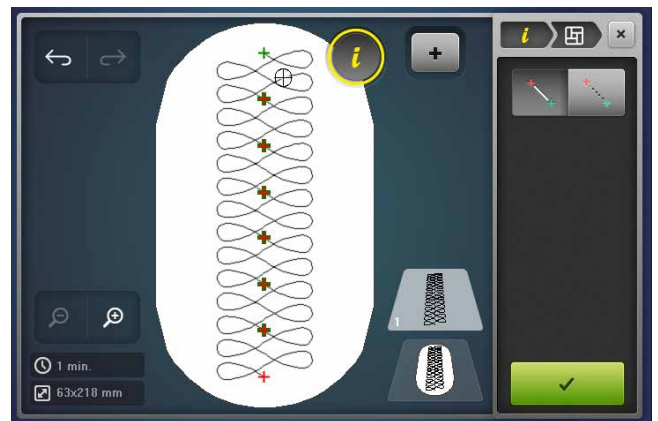
NEW: BERNINA Integrated Stitch Regulator (BISR)



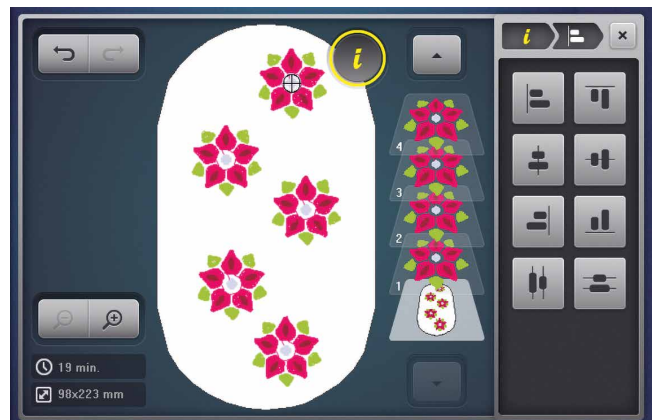
NEW: 3-Point Placement



NEW: Crop Function



Match Start/Stop and Connect



Align and Distribute Designs

# Ultra Smart Quilting with the B 790 ULTRA

The B 790 ULTRA redefines computerized quilting with a wide range of new features for customizing, placing, and editing quilt designs. Professional quilting becomes ultra easy, ultra precise, and truly flexible.

## **CUSTOMISABLE QUILT DESIGNS**

The new Customisable Quilt Designs (.bqm) bring the functionality of professional longarm quilting to your embroidery machine. Unlimited scaling possibilities, the ability to modify the stitches per inch (SPI) and enhanced quilt securing functions enable you to achieve perfect computerised quilting on your embroidery machine.

## **NEW: ULTRA PRECISE PLACEMENT**

With 3-Point Placement (new), 2-Point and 4-Point Placement, the positioning of your embroidery or quilting design is extremely easy and precise. This great function allows you to place your designs to precisely suit your project by simply setting three or four/two points on the fabric in the hoop.

## **NEW: CROP QUILT DESIGNS**

The Crop feature gives a possibility to tailor quilt designs with exceptional accuracy. Customisable Quilt Designs can be cropped along a freely adjustable line or to match your embroidery hoop.

## **NEW: CONNECT QUILT DESIGNS**

The Connect feature lets you merge multiple quilt designs into a single design using connection stitches. This makes it easy to manage and stitch complex layouts as one unified pattern.

## **NEW: START AND STOP EDITING**

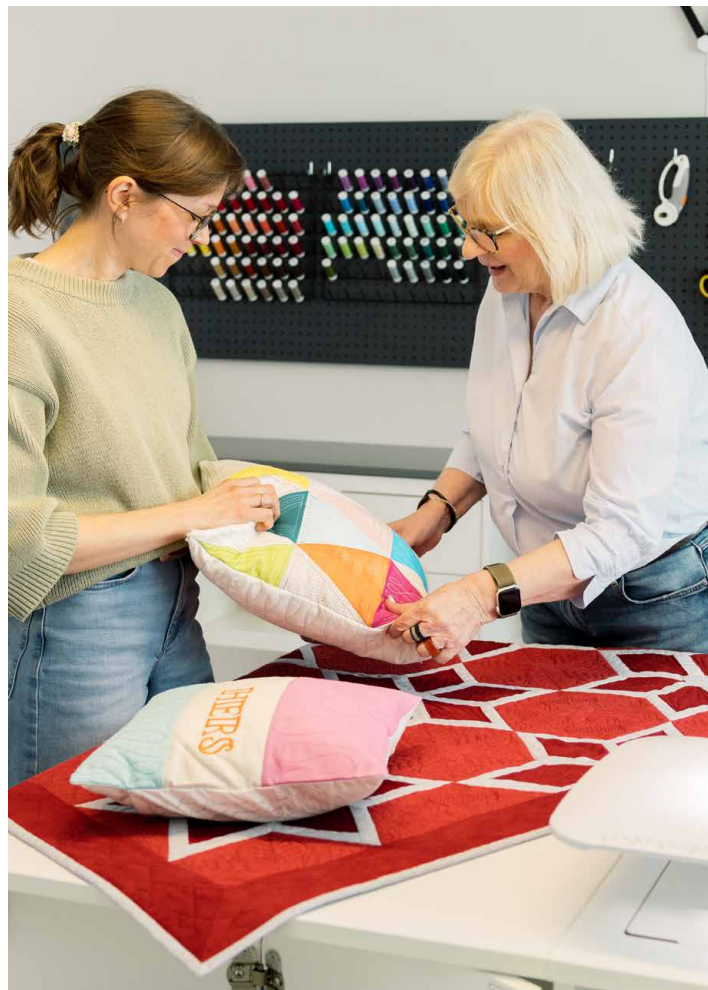
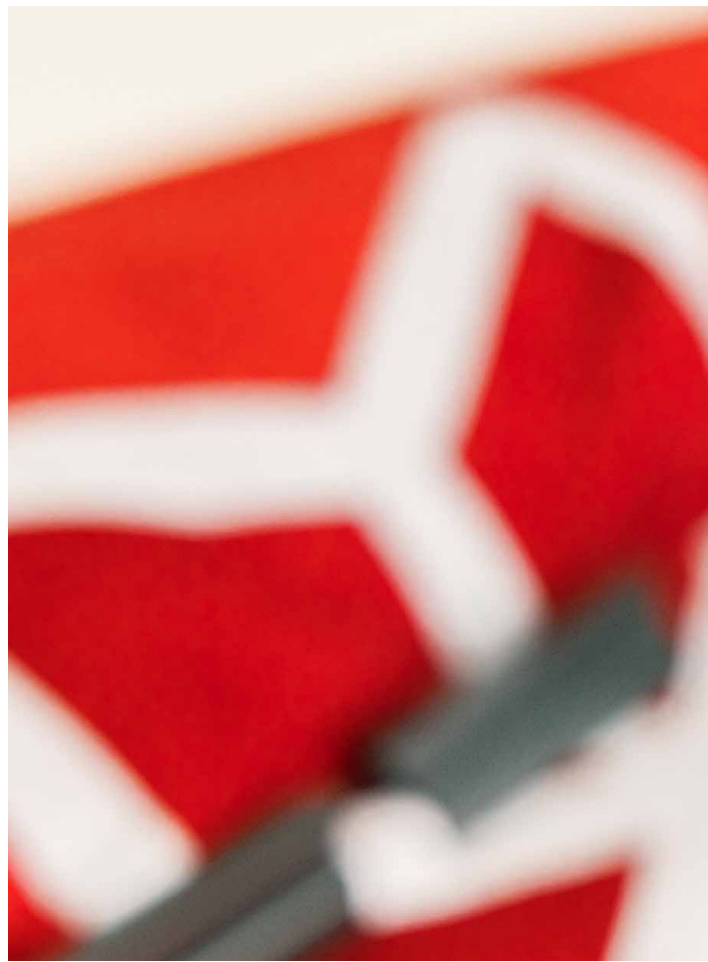
Push the boundaries of your computerised quilting by visualising and adjusting the Start and Stop of Customisable Quilt Designs. Arrange designs to fit your quilt by flipping the position of the start and stop points, select multiple designs and match the start and stop points to create endless quilting designs with one touch.

## **NEW: SAVE YOUR PROJECTS AS BQM FILES**

The B 790 ULTRA lets you save your Computerized Quilting projects in your Personal Folder for future use or changes.

## **NEW: EMBROIDER SEWING STITCHES IN BQM FORMAT**

Selected stitches are now available in BQM format. This allows you to modify, and integrate your decorative stitches seamlessly into computerized quilting projects with ultra precision.





## BERNINA 7 Series: Advanced Embroidery

**All BERNINA 7 Series models** feature unique innovations that make embroidering easier than ever. The high-end embroidery module L with BERNINA Smart Drive Technology (SDT) comes standard with the B 790 ULTRA and B 700 PRO and is available as an optional accessory for the B 770 QE PRO and the B 735 PRO. It elevates your embroidery experience with enhanced stitch quality, smoother and quieter movement and higher embroidery speed.

### WIFI AND BERNINA STITCHOUT APP

WiFi allows you to transfer embroidery designs from your BERNINA Embroidery Software (optional) directly to your B 7 Series machine, or the other way around. The BERNINA Stitchout App lets you track the embroidery process on your smartphone. All B 7 Series models are able to connect with the app allowing you to monitor the status of your embroidery stitchout from any room in your house. The app notifies you when the machine needs your direct attention, like thread colour change, thread breakage or when the design is finished. On the B 790 ULTRA, WiFi gives you access to the Help Center on your personal device (tablet or smartphone).

### SHAPE DESIGNER (B 790 ULTRA AND B 700 PRO)

Easily replicate a design – including imported stitches – multiple times and arrange them in your desired shape to create a bespoke pattern. Whether in a circle, square, rectangle, star, heart, arches and more, the possibilities with the Shape Designer are endless.

### COLOUR WHEEL (B 790 ULTRA AND B 700 PRO)

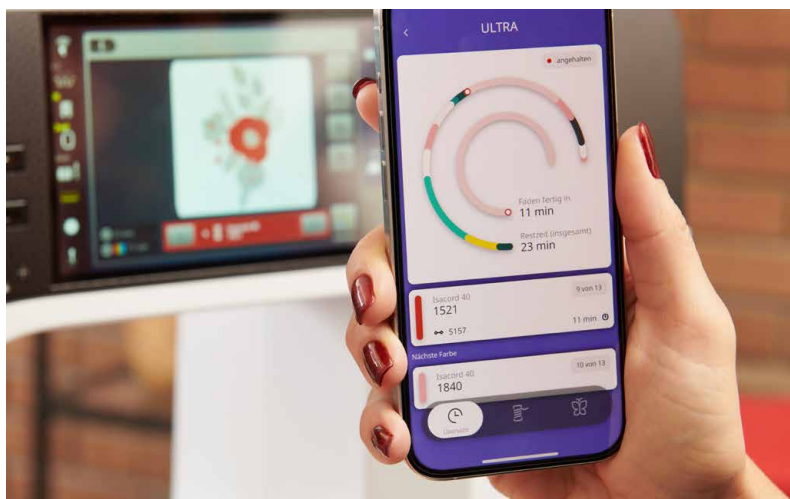
Change designs easily and coordinate to your favourite colour scheme before you start embroidering. Alter the hue and saturation of a design on screen, translate the on-screen colours to thread colours and convert your colours to alternative thread brand libraries.

### ENDLESS EMBROIDERY

Easily repeat and align embroidery designs to make continuous borders. Designs can be fine-tuned to the spacing desired and verified with stitched placement arrows.

### BUILT-IN EMBROIDERY DESIGNS AND ALPHABETS

Every model features a wide variety of embroidery designs including in-the-hoop projects and special technique designs as well as professional BQM Quilting Designs.



# B 770 QE PRO

## The Quilting Expert

The B 770 QE PRO brings your sewing and quilting capabilities to a new level. Standout PRO features like the BERNINA Pinpoint Laser and the Automatic Needle Threader enhance your valuable sewing and quilting time and additional highlights set the benchmark. With an impressive selection of speciality stitches, this machine is perfect for adding beautiful detail to quilts, garments, and accessories alike. The Triple Stitch allows you to sew bold seams and decorative stitches.

The BERNINA Stitch Regulator comes standard with the B 770 QE PRO. It automatically adjusts the sewing speed during free-motion quilting to ensure even stitches. Basting quilts is easy thanks to the BSR 3 Mode. The KickStart function enables start/stop with the foot control so you can keep both hands on your work at all times without having to keep your foot on the pedal. 100 Customisable Quilt Designs (BQM files) are integrated, and you can add and save your own patterns as you wish.

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

**BSR 3 Mode and KickStart**

Baste your quilts with BSR 3 Mode and quilt comfortably with the KickStart feature

**Speed control**

Sewing and embroidery speeds up to 1,000 stitches per minute

**Automatic Needle Threader**

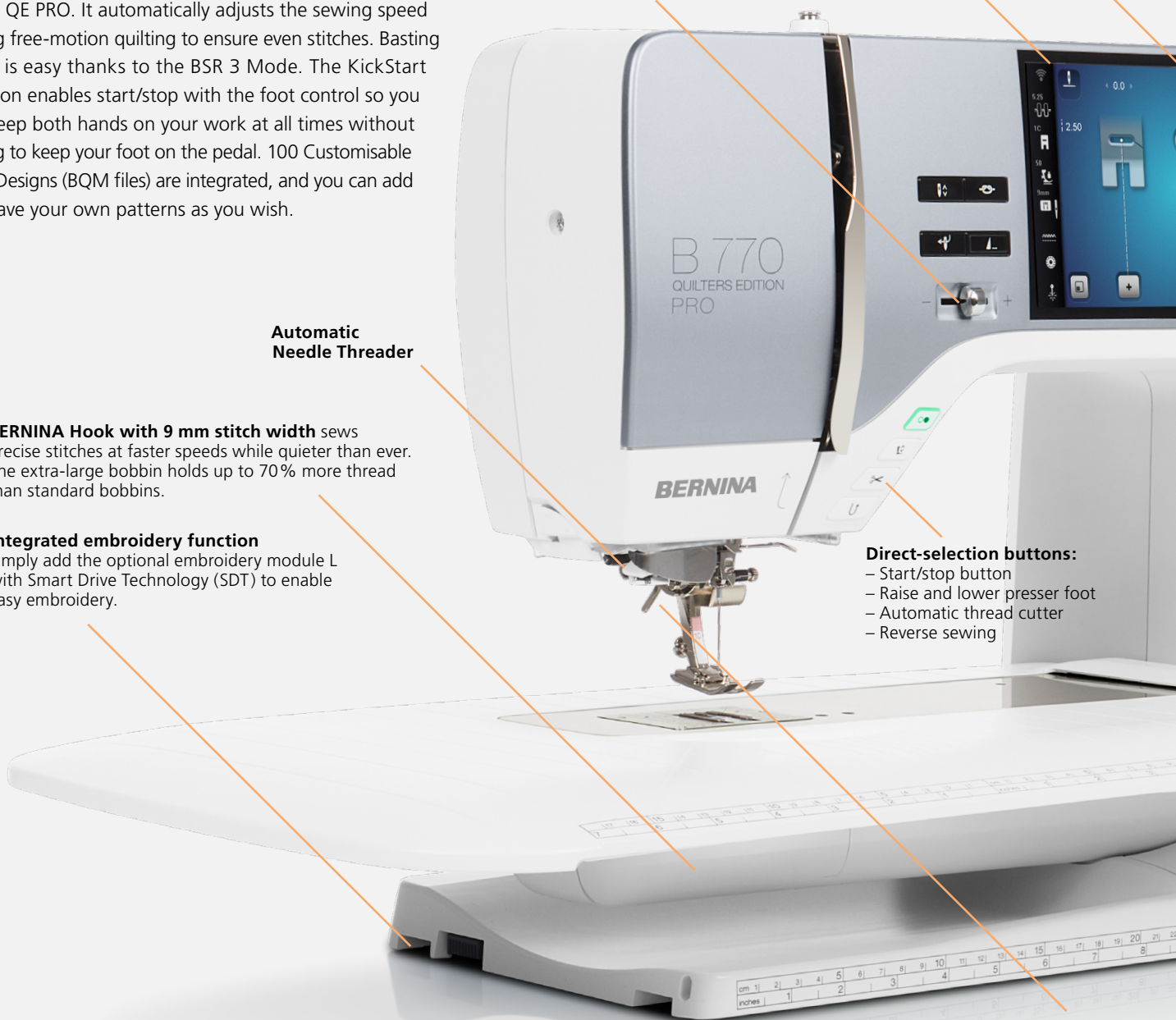
**BERNINA Hook with 9 mm stitch width** sews precise stitches at faster speeds while quieter than ever. The extra-large bobbin holds up to 70% more thread than standard bobbins.

**Integrated embroidery function**

Simply add the optional embroidery module L with Smart Drive Technology (SDT) to enable easy embroidery.

**Direct-selection buttons:**

- Start/stop button
- Raise and lower presser foot
- Automatic thread cutter
- Reverse sewing



**BERNINA Dual Feed**



“This machine is just inspiring.”

**JESSICA ROSE OF QUILTD STUDIOS,**  
US QUILT DESIGNER



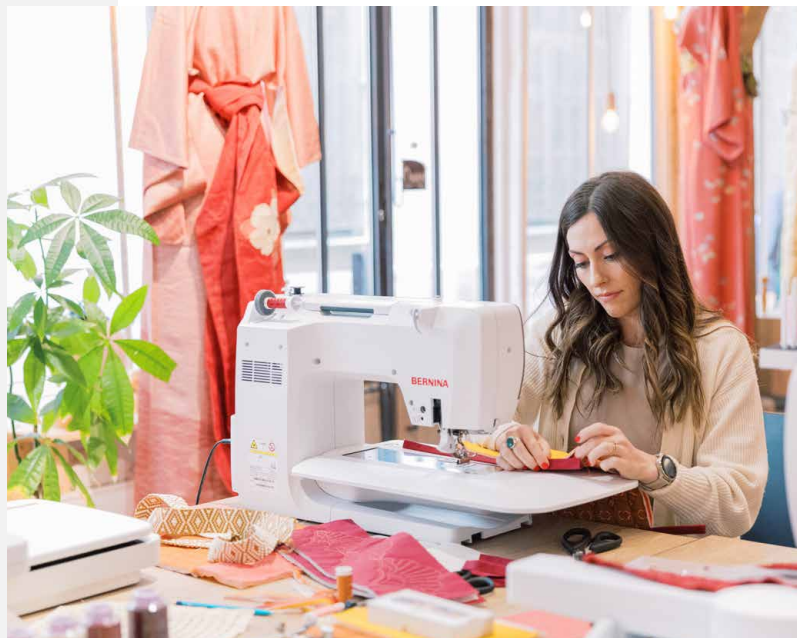
BERNINA Dual Feed



**BERNINA Free Hand System (FHS)**



Easily integrate your own quilt motifs via USB (download the BQM file of the Eiffel Tower for free at [bernina.com/7series](http://bernina.com/7series))



# B 735 PRO

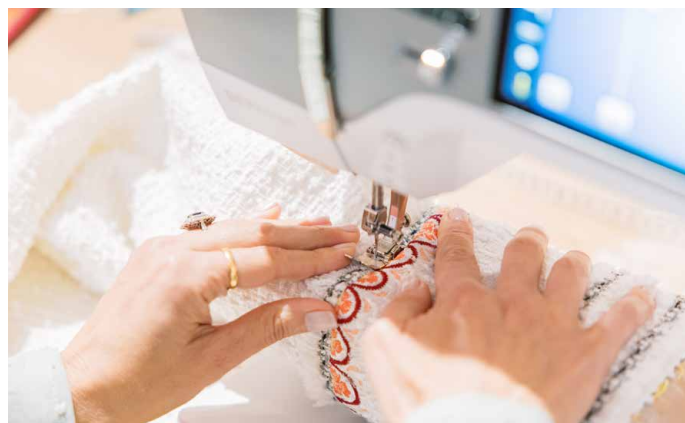
## The Garment Sewing Specialist

The BERNINA 735 PRO with 5.5 mm stitch width is perfect for precise sewing projects and fine materials. It is a dream come true for garment makers, whether their creations are inspired by renowned designers or their own imagination. This machine stands out with Swiss precision in both its construction and stitch quality. It features the BERNINA Pinpoint Laser, the Automatic Needle threader, a large touchscreen, countless utility and decorative stitches, and an extensive range of accessories. The BERNINA Walking Foot #50 comes standard with this machine. It provides even more control when sewing challenging materials or multi-layered fabrics thanks to the additional feed from above.



“I expected great quality.  
But this machine went beyond  
my expectations.”

**AMAIA ARANA OF YOU MADE MY DAY PATTERNS,  
PATTERN MAKER FROM SPAIN**



Sleeve decoration made easy thanks to the freearm



Easy placement of embroidery motifs

# B 700 PRO

## Exclusively Embroidery

The B 700 PRO is designed for embroidery enthusiasts who appreciate exceptional stitch quality and precision. Including the Pinpoint Laser, Automatic Needle threader and WiFi connectivity, this embroidery-only model offers a range of advanced capabilities to deliver outstanding results. This embroidery machine offers high speed, a large embroidery area, and accurate results with stitch **precision**<sup>2</sup>. The Jumbo Bobbin reduces interruptions by holding more thread, and automatic jump stitch cutting saves time and eliminates the need for manual trimming. With 500 built-in motifs and 25 embroidery alphabets, the B 700 PRO is ready for any creative project.



“I embroidered a floral design on my red jacket. It turned out perfectly.”

**MARLIES WITJES OF STUDIO LIESL,**  
SEWIST & CONTENT CREATOR FROM THE NETHERLANDS



Precise placement with the Pinpoint Laser



Edit embroidery motifs directly on the screen



# More features you will love about the BERNINA 7 Series

## TOTAL 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 (all models except B 700 PRO).

## BERNINA STITCH REGULATOR (BSR)

While the B 790 ULTRA features the BERNINA Integrated Stitch Regulator (BISR), the B 770 QE PRO and B 735 PRO are equipped with the proven BSR function.

The BSR foot supports free-motion sewing and quilting with straight or zigzag stitches, ensuring perfectly even stitch lengths at any speed. It is included as a standard accessory with the B 770 QE PRO and available as an option for the B 735 PRO.

Three BISR/BSR modes support your quilting process. Mode 1 sews continuously while you move the fabric, Mode 2 stitches only when the fabric moves for maximum control, and Mode 3 offers long basting stitches at 2 or 4 stitches per inch.

## BERNINA DUAL FEED

The integrated BERNINA Dual Feed (B 790 ULTRA and B 770 QE PRO only) 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.

## SEW WITH EVEN GREATER EASE

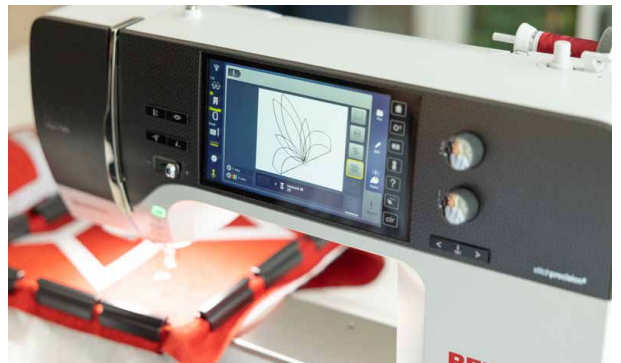
The B 7 Series accomplish many tasks all by themselves. The presser foot lowers automatically at the beginning of a seam and needle threading is just simple with the automatic needle threader. The thread is cut automatically when you reach the end of a seam, or when you wish to change colours while embroidering. Moreover, a practical extension table, which yet again significantly increases your work area, is included in the standard package.

## BERNINA ADAPTIVE THREAD TENSION

The innovative BERNINA Adaptive Thread Tension provides ideal thread tension while creating 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.

## BERNINA QUALITY

For more than 130 years, BERNINA has been passionately committed to the development of sewing and embroidery machines. Swiss precision is at the heart of our products as like in our new BERNINA 7 PRO Series. High-quality materials guarantee a long product life and high performance.





# The 7 Series

GENERAL INFORMATION	B 790 ULTRA	B 770 QE PRO	B 735 PRO	B 700 PRO
Space to the Right of the Needle	10" (254 mm)	10" (254 mm)	10" (254 mm)	10" (254 mm)
Workspace Height	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)
Centrally Located Colour Touch Screen	7" (177.8 mm)	7" (177.8 mm)	7" (177.8 mm)	7" (177.8 mm)
Multi-function Knobs	✓	✓	✓	✓
LED Sewing Lights	30	30	30	30
Automatic Needle Threader	✓	✓	✓	✓
BERNINA Pinpoint Laser*	✓	✓	✓	✓
<b>NEW:</b> Stitch Plate Recognition	✓	-	-	-
WiFi	✓	✓	✓	✓
Stitch <b>precision</b> <sup>2</sup> Technology	✓	✓	✓	✓
Total Stitch Control	✓	✓	✓	-
BERNINA Adaptive Thread Tension	✓	✓	✓	✓
BERNINA Dual Feed	✓	✓	-	-
Hook System	BERNINA	BERNINA	BERNINA	BERNINA
Jumbo Bobbin with 70 % more Capacity	✓	✓	✓	✓
Bobbin winding while sewing/embroidering	✓	✓	✓	✓
Powerful DC Motor	✓	✓	✓	✓
BERNINA Free Hand System (FHS)	✓	✓	✓	✓
Programmable BERNINA Foot Control	✓	✓	✓	-
Thread-up Command	✓	✓	✓	✓
Automatic Presser Foot Lifter	✓	✓	✓	✓
Automatic Thread Cutter	✓	✓	✓	✓
Manual Thread Cutters	3	3	3	3
Adjustable Presser Foot Pressure	✓	✓	✓	-
Lower Thread Sensor	✓	✓	✓	✓
Upper Thread Sensor	✓	✓	✓	✓
<b>NEW:</b> Help Center	✓	-	-	-
Tutorial	✓	✓	✓	✓
On-screen Help	✓	✓	✓	✓
Eco Mode	✓	✓	✓	✓

SEWING AND QUILTING	B 790 ULTRA	B 770 QE PRO	B 735 PRO	B 700 PRO
Maximum Sewing Speed (stitches per minute)	1,000 spm	1,000 spm	1,000 spm	-
Maximum Stitch Width	9 mm	9 mm	5.5 mm	-
Maximum Stitch Length	6 mm	6 mm	6 mm	-
Adjustable Needle Positions	11	11	11	-
Presser Foot Selection	✓	✓	✓	✓
Security Function for Needle and Stitch Plate	✓	✓	✓	✓
Sideways Motion	✓	-	-	-
Connecting stitches	✓	-	-	-
Tapering	✓	-	-	-
Automatic Buttonhole / Length Measuring System	✓	✓	✓	-
Manual multi-step buttonhole	✓	✓	✓	-
Button sew-on program	✓	✓	✓	-
Personal Memory	✓	✓	✓	-
Temporary Altered Stitch Memory	✓	✓	✓	-
History Function (most recently used stitch patterns)	✓	✓	✓	-
<b>NEW:</b> Undo/Redo in Sewing	✓	-	-	-
Stitch Designer	✓	-	-	-
Creative Consultant Sewing and Quilting	✓	✓	✓	-
Pattern Repeat	1-99	1-99	1-99	-
Pattern Begin	✓	✓	✓	-
Pattern End	✓	✓	✓	-
Mirror-image function	✓	✓	✓	-
Elongation	✓	✓	✓	-
Basting Stitch	Stitch #21	Stitch #21	Stitch #30 (manually)	-
Long Stitch	✓	✓	✓	-
<b>NEW:</b> Jumbo Stitch	✓	-	-	-
Triple Stitch	✓	✓	✓	-
Backstepping	✓	✓	✓	-
Programmable Securing Function	✓	✓	✓	-
<b>NEW:</b> BERNINA Integrated Stitch Regulator (BISR)	✓	-	-	-
BSR Foot #42 enabled	✓	✓	✓	-
KickStart Function	✓	✓	✓	-
Start/Stop Button (stitching without foot control)	✓	✓	✓	✓
Freearm Sewing	✓	✓	✓	-
Monograms (with sideways motion only)	✓	-	-	-
Total Number of Sewing Stitch Patterns (incl. alphabets)	2,248	1,858	1,753	-
Alphabets	10	9	6	-
Monograms	1	-	-	-
Decorative Stitches	754	550	400	-
Button Sew-On Program	1	1	1	-
Buttonholes / Eyelets	17/2	16/2	13/2	-
Practical Stitches	38	37	32	-
Sideways-Motion Stitches	171	-	-	-
Quilting Stitches	74	76	37	-
Tapering/Banner Stitch Patterns	28/30	-	-	-
Darning Programs	2	2	2	-

\*Laser classification 1: The lasers of classification 1 are the safest of all laser classes and not harmful to the eye. The possibility of injuries can be ruled out as the radiation is extremely weak. In this case, visible laser radiation is involved.

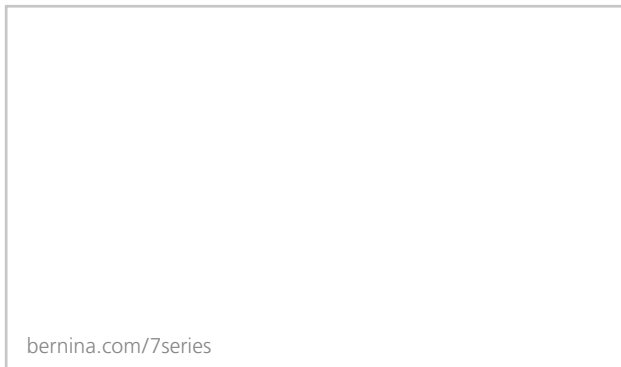
EMBROIDERY	B 790 ULTRA	B 770 QE PRO	B 735 PRO	B 700 PRO
Maximum Embroidery Speed (stitches per minute)	1,000 spm	1,000 spm	1,000 spm	1,000 spm
Embroidery Area	15.7 x 8.3" (400 x 210 mm)	15.7 x 8.3" (400 x 210 mm)	15.7 x 8.3" (400 x 210 mm)	15.7 x 8.3" (400 x 210 mm)
Freearm Embroidery	✓	✓	✓	✓
Built-in Embroidery Designs	610	400	400	500
Embroidery Alphabets	25	10	10	25
<b>NEW:</b> Customisable Quilt Designs (BQM files)	120	100	30	76
On-screen Editing of Designs: position, mirror, rotate, scale, combine	✓	✓	✓	✓
Change Design Size Proportionally/Non-Proportionally	✓	✓	✓	✓
Align/Distribute embroidery designs	✓	✓	✓	✓
Multi-line Lettering and Align	✓	✓	✓	✓
Endless Embroidery	✓	✓	✓	✓
Shape Designer	✓	-	-	✓
Colour Wheel	✓	-	-	✓
QWERTY Keyboard	✓	✓	✓	✓
WordArt	✓	✓	✓	✓
Drag and Drop	✓	✓	✓	✓
Absolute Check Design Positioning	✓	✓	✓	✓
<b>NEW:</b> 3-Point Placement with Morphing	✓	-	-	-
Pinpoint Placement with 2-Point and 4-Point Placement with Morphing	✓	✓	✓	✓
Lock scaling	✓	✓	✓	✓
Check Design Size	✓	✓	✓	✓
Group/Ungroup	✓	✓	✓	✓
Rearrange designs	✓	✓	✓	✓
Undo/Redo	✓	-	-	✓
Adjust Stitch Density	✓	✓	✓	✓
Change Stitch Type	✓	✓	✓	✓
Basting	✓	✓	✓	✓
Colour Resequence	✓	✓	✓	✓
Personal Memory for Saving Embroidery Designs	✓	✓	✓	✓
Programmable Jump Stitch Cutting	✓	✓	✓	✓
Smart Secure	✓	✓	✓	✓
Invisible Secure	✓	✓	✓	✓
Thread Away Mode	✓	✓	✓	✓
Creative Consultant Embroidery	✓	✓	✓	✓
Embroider Sewing Stitches	✓	-	-	-
Multi-Format Design Compatible (EXP, DST, PEC, JEF, PCS, SEW, XXX)	✓	✓	✓	✓
<b>NEW:</b> Customisable Quilt Design Format compatible (BQM, HQF, PAT, PLT, QLI)	✓	-	-	-
<b>NEW:</b> Adjustable Stitch Length (SPI) for Customisable Quilt Designs	✓	-	-	-
<b>NEW:</b> Start and Stop Editing	✓	-	-	-
<b>NEW:</b> Crop Customisable Quilt Designs	✓	-	-	-
<b>NEW:</b> Connect Customisable Quilt Designs	✓	-	-	-
<b>NEW:</b> Save Quilt Designs as BQM	✓	-	-	-
Direct Design transfer to/from BERNINA Embroidery Software via WiFi	✓	✓	✓	✓
Automatic Hoop Recognition	✓	✓	✓	✓
View Stitch-out Time, Thread Colours, Size, Stitches	✓	✓	✓	✓
BERNINA Stitchout App compatible	✓	✓	✓	✓
Stitch Sequence Control	✓	✓	✓	✓
Position Recall	✓	✓	✓	✓
Jumbo, Maxi, Mega and Midi Hoop Compatibility	✓	✓	✓	✓

STANDARD ACCESSORIES	B 790 ULTRA	B 770 QE PRO	B 735 PRO	B 700 PRO
BERNINA Precision Presser Feet included	10	7	6	1
Reverse Pattern Foot #1/1C	✓	✓	✓	-
Dual Feed Reverse Pattern Foot #1D	✓	✓	-	-
Overlock Foot #2A	✓	-	-	-
Buttonhole Foot with Slide #3A	✓	✓	✓	-
Zipper Foot #4/4D	✓	✓	✓	-
Blindstitch Foot #5	✓	-	-	-
Jeans Foot #8/8D	✓	-	✓	-
Open Embroidery Foot #20/20C	✓	✓	✓	-
Embroidery Foot #26L	✓	-	-	✓
BERNINA Stitch Regulator (BSR) #42	-	✓	-	-
Sideways Motion Foot #40C	✓	-	-	-
Walking Foot #50	-	-	✓	-
Patchwork Foot #97D	-	✓	-	-
Slide-on Table	✓	✓	✓	-
Knee lever/Free Hand System (FHS)	✓	✓	✓	-
Embroidery Module L with Smart Drive Technology (SDT)	✓	optional	optional	✓
Standard Embroidery Hoops included	3	-	-	3
Embroidery Hoop Large Oval with template (255 x 145 mm, 10.0" x 5.7")	✓	-	-	✓
Embroidery Hoop Medium Oval with template (130 x 100 mm, 5.1" x 3.9")	✓	-	-	✓
Embroidery Hoop Small Oval with template (72 x 50 mm, 2.8" x 2")	✓	-	-	✓
Dust Cover	✓	✓	✓	✓
Accessory Box	✓	✓	✓	✓



# **BERNINA**

*made to create*



[bernina.com/7series](https://bernina.com/7series)

Not all models are available in all countries.

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

BERNINA recommends threads from

*Mettler*<sup>®</sup>