

BERNINA Machine Feature Comparison – Sewing & Embroidery

BERNINA Model	880	830	820	780	750 QE	710	580	560	550 QE	530	380	350 PE	330	215	1008
General Features															
Centrally Located Touch Screen Ideally located, the touch screen is clear and easy to use. <i>The TFT screens - 8 Series, 7 Series & 580 - are ultra-responsive with high resolution colors.</i>	7" TFT Color	7" TFT Color	5" TFT Color	7" TFT Color	4.3" TFT Color	4.3" TFT Color	4.3" TFT Color	4.3" TFT Color	LCD B & W	LCD B & W	LCD B & W	LCD B & W	LCD B & W	LCD B & W	Stitch Selection Chart (no screen)
Stitch Access Intuitive access to stitches allows you to focus on creativity.	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	One Touch System + Navigation Keys	One Touch System + Navigation Keys	One Touch System	One Touch System	One Touch System	One Touch System	Stitch Lever
Illumination The 8 Series & 7 Series have bright illumination in the needle area and over the free arm. The brightness is adjustable on the 7 Series. The 780 & 750 also have lighting in bobbin area.	30 LEDs	30 LEDs	30 LEDs	30 LEDs + Bobbin Area	30 LEDs + Bobbin Area	30 LEDs	12 LEDs	12 LEDs	12 LEDs	12 LEDs	8 LEDs	8 LEDs	8 LEDs	LED	Standard Bulb
On-screen Help Find help where and when you need it, including Function Information, Animations, Creative Consultant and Tutorials.	Help Animations Creative Consultant Tutorials	Help Animations Creative Consultant Tutorials	Help Animations Creative Consultant Tutorials	Help Animations Creative Consultant Tutorials	Help Creative Consultant Tutorials	Help Creative Consultant Tutorials	Help Creative Consultant Tutorials	Help Creative Consultant Tutorials	Creative Consultant	Creative Consultant					
Needle Minder Store settings for needle type.	•	•	•	•											
Automatic Needle Threading Thread the needle with ease. <i>The 8 Series has a Fully Automated Threading System threading the machine and needle in one simple process.</i>	Fully Automatic	Fully Automatic	Fully Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	
Extended Free Arm The 8 Series and 7 Series have Extended Free Arm length offering outstanding maneuverability, freedom and comfort.	15" Length 12" to the Right of the Needle	15" Length 12" to the Right of the Needle	15" Length 12" to the Right of the Needle	13" Length 10" to the Right of the Needle	13" Length 10" to the Right of the Needle	13" Length 10" to the Right of the Needle									
Powerful DC Motor Full power at all speeds provides for consistent stitching on multiple layers & heavy fabrics.	• Ultra Powerful	• Ultra Powerful	• Ultra Powerful	•	•	•	•	•	•	•	•	•	•	•	AC

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Separate Bobbin Winding Motor Wind a bobbin quickly and even wind a bobbin while sewing!	• Fill Level Control	• Fill Level Control	• Fill Level Control	•	•	•	•	•	•	•	•	•	•		
Eco Mode Stand-by mode saves energy. 7 Series Eco Mode includes a Made-to-Create Ingredients Campaign slideshow setting.	• Slideshow	•	•	• Slideshow	• Slideshow	• Slideshow	•	•							
Hook System The CB Shuttle is the traditional BERNINA mechanism that produces the legendary BERNINA stitch quality. The BERNINA Rotary Hook has a comparable stitch quality to the CB Shuttle and allows a 9 mm stitch width and bobbin thread monitoring. The innovative BERNINA 9 Hook maintains the legendary BERNINA stitch quality, allows a 9 mm stitch width, easy bobbin case insertion, bobbin lighting and bobbin thread monitoring.	8 Series Rotary	8 Series Rotary	8 Series Rotary	B9	B9	B9	Rotary	Rotary	CB	CB	CB	CB	CB	CB	CB
Extra-large Bobbin Capacity The 8 Series & 7 Series bobbins have 80% greater thread capacity than standard bobbins.	8 Series Jumbo	8 Series Jumbo	8 Series Jumbo	7 Series B9	7 Series B9	7 Series B9	Standard Rotary	Standard Rotary	Standard CB	Standard CB	Standard CB	Standard CB	Standard CB	Standard CB	Standard CB
Upper Thread Sensor A signal indicates when the upper thread breaks or runs out. <i>The 8 Series stops the machine when the upper thread breaks or runs out.</i>	• Enhanced	• Enhanced	• Enhanced	•	•	•	•	•							
Bobbin Thread Sensor Warns when the bobbin thread runs low.	• Enhanced	• Enhanced	• Enhanced	•	•		•	•							
Automatic Thread Cutter The upper and lower threads are cut automatically or at the touch of a button.	•	•	•	•	•	•	•	•							
Manual Thread Cutter Ideally positioned cutting blades offer simple and safe cutting.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Electronic Foot Control Enjoy consistent control plus a heel/tap feature to raise and lower the needle. <i>In addition, the 880 heel down feature is programmable to sew securing stitches, automatically cut upper & lower threads and raise the presser foot.</i>	• Enhanced	•	•	•	•	•	•	•	•	•	Optional	Optional	Optional	Optional	
Start/Stop with Slide Speed Control As an alternative to the traditional foot control, power the machine using the Start/Stop button and regulate the speed with the Slide Speed control.	•	•	•	•	•	•	•	•	•	•	•	•	•		
USB Connection Enjoy rapid and direct connectivity for information transfer.	2 Updates Embroidery Designs	2 Updates Embroidery Designs	1 Updates	1 Updates Embroidery Designs	1 Updates Embroidery Designs w/ optional module	1 Updates	1 Updates Embroidery Designs	1 Updates Embroidery Designs	PC Connection for Updates	PC Connection For Updates					
Time Display / Alarm Clock Program alarm time & personal alarm message.	•	•	•												
Design Skin Compatible Design Skins transform your BERNINA into a stylish, individualized machine. Select from stock or custom-created skins.														•	
Sewing Features															
Maximum Sewing Speed (stitches per minute) <i>The 8 Series has the fastest sewing speed of any domestic sewing machine.</i>	1200	1100	1100	1000	1000	1000	1000	1000	900	900	900	900	900	900	1050
BERNINA Stitch Regulator (BSR) The patented BERNINA Stitch Regulator (BSR) provides consistent free-motion stitching even at high speeds. Some models allow for both straight stitch & zigzag free-motion stitching with the BSR.	• Straight Stitch/ Zigzag (1200 spm)	• Straight Stitch/ Zigzag	• Straight Stitch/ Zigzag	• Straight Stitch/ Zigzag	• Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	• Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	• Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag					

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Integrated BERNINA Dual Feed The 8 Series and 7 Series integrated BERNINA Dual Feed ensures even feeding of hard-to-manage fabrics with beautiful results.	• Ability to Fine-tune (1000 spm)	• Ability to Fine-tune	• Ability to Fine-tune	•	•	•									
Free Hand System (FHS) Knee operated lever raises the presser foot, lowers the feed dog and releases the thread tension keeping your hands on the fabric while guiding and pivoting.	•	•	•	•	•	•	•	•	•	•	•	•	Optional		
Maximum Stitch Length (mm) The variable Stitch Length provides a smooth transition from length to length and can be adjusted while sewing.	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Maximum Stitch Width (mm) The variable Stitch Width can be adjusted while sewing. The 9mm maximum stitch width available on some models expands your design possibilities.	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Needle Positions Multiple Needle Positions allow for very precise sewing. You can sew most patterns in any needle position.	11	11	11	11	11	11	11	11	11	11	9	9	9	9	5
Needle Up / Down Basic setting is needle stop up. Some models allow for selection of needle to stop in the raised (up) or lowered (down) position.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Directional & Sideways-motion Stitching Multi-directional Sewing expands your decorative stitch possibilities.	360 Directions	360 Directions		360 Directions											
Tapering Create and adjust the stitch taper before and after decorative stitch applications for unlimited design possibilities.	•	•	•	•											
Distorting Stitch Patterns Distort Stitch Patterns left/right and forward/backward in .01mm increments for decorative effects.	•	Balance Bonus		Balance Bonus											

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Stitch Designer Create your own stitches or edit existing stitch patterns. 9mm & Sideways Motion Stitches can be designed.	•														
Temporary Altered Stitch Memory The Temporary Altered Stitch Memory remembers your stitch settings even if you switch to another pattern and then back.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Saved Stitch Settings Save over the factory default stitch settings to personalize a stitch; remains in effect until you change back to default stitch settings.	•	•	•	•	•	•			•	•					
Long-term Memory/Stitch Combinations Create and store stitch combinations including lettering. Patterns remain in memory even after the machine is turned off.	Multiple Drawers	Multiple Drawers	Multiple Drawers	Multiple Drawers	Multiple Drawers	Multiple Drawers	Multiple Drawers	Multiple Drawers	100	100	30	30	30		
History Stitches The History Screen lets you select your recent stitches.	15	15	12	15											
Personal Program Record your individually altered stitches for future retrieval.	• 4 folders	• 4 folders nameable	• 2 folders	• 4 folders	•	•	•	•							
Security Program Select respective needle type (single, double, triple, etc.) and stitch plate type. Automatically limits width function respectively. Prevents needle from hitting foot and/or stitch plate, avoiding needle breakage and damage.	•	•	•	•	•	•	•	•							
Securing Function Automatically secures a single pattern or combination by adding some on the spot stitches at the finish.	• Ability to Program	• Ability to Program	• Ability to Program	• Ability to Program	•	•	•	•	•	•					
Securing Stitch Automatically secures at the start and finish of a task with a short reverse sequence straight stitch.	•	•	•	•	•	•	•	•	•	•	•	•	•		

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Pattern Begin Start sewing at the beginning of a pattern or sequence wherever you stopped.	•	•	•	•	•	•	•	•	•	•					
Pattern End No more half-finished patterns; machine stops after pattern is complete.	• Ability to Program	•	•	• Ability to Program	•	•	•	•	•	•	•	•	•		
Mirror Image of Stitch Patterns Sew the mirror image of a stitch pattern with options. H = horizontal V = vertical	H / V	H / V	H / V	H / V	H / V	H / V	H / V	H / V	H	H	H				
Pattern Extend 2-5x Program a stitch pattern to extend 2 – 5 times and the integrity of the stitch is maintained.		•	•												
Pattern Elongation / Stitch Density Extend stitch pattern length in 1% or 100% steps. Shortest length is 10%; maximum length is 1000%.	•			•	•	•	•								
Pattern Repeat 1-9x Program the machine to stop at the end of 1 – 9 repeats of a single stitch or stitch combination.	•	•	•	•	•	•	•	•	•	•					
Long Stitch Sews every second stitch; useful for practical and decorative applications. (exception: buttonholes and sideways motion stitches)	•	•	•	•	•		•								
Basting Stitch Baste seams, hems and quilts.	• Long Stitch # 21	• Long Stitch # 21	• Long Stitch # 21	• Long Stitch # 21	• Long Stitch # 21	• Manual #30	• Long Stitch # 21	• Manual #30	• Manual #30	• Manual #30	• Manual #23	• Manual #21			
Drag and Drop Editing in Sewing Simple drag and drop allows for easy positioning of sewing combinations.	•	•		•											
Quick Reverse / Continuous Reverse Sew backwards at a touch of a button / function.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Backstepping The stitch pattern is accurately sewn in reverse stitch by stitch.	•	•	•												

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Presser Foot Pressure Adjustment Adjust the foot pressure to eliminate skipped stitches on thick fabrics and wavy seams on knits.	•	•	•	•	•	•	•	•	•	•					
Presser Foot Library Access a built-in library of current presser feet and accessories.	•			•											
Recommended Presser Foot Indicator Indicator shows recommended presser foot for general use of stitch selected	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Presser Foot Sensor System Lets the machine know how wide a needle swing is safely possible with attached foot.	•	•	•	•	•	•	•	•							
Program Hover Function Activate Foot Hover with a quick tap of the Start/Stop button or program to work with the Needle Stop Down function.	•	•	•	•	•	•									
Program Hover Height Set the clearance between the presser foot and the feeddogs. Adjust from 0 – 7 mm (2mm is standard.)	•	•	•	•	•	•									
Automatic One-Step Buttonhole with Memory Function Quickly set the length of the One-Step Buttonhole. Held in memory, the same size buttonhole may be repeated. <i>Buttonhole width adjustment available on select models.</i>	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	• Width Adjustment Also	•	•	•	•	•		
On-screen Buttonhole Measuring Hold a button to the screen and set the length by adjusting a knob.	•	•	•	•	•	•	•	•							
Hopper Mechanism For free-motion stitching, the hopper mechanism ensures the needle and presser foot are working with you to form beautiful stitches.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Sewing Stitch Packages															
Total Stitch Patterns	1764	1431	773	1306	837	680	632	476	434	395	232	202	99	11	17
Practical Stitches	38	30	24	32	30	29	30	29	22	22	20	20	17	10	14
Decorative Stitches Total	630	557	289	460	250	200	187	160	155	117	79	52	19		2
Quilting Stitches	66	28	30	33	33	23	14	24	24	12	12	11	3		
Sideways-motion Stitches	109	115		91											
Buttonholes / Eyelets	17/2	10/2	6/2	13/2	9/2	9/2	8/2	8/2	7/2	7/1	4	2	1	1	1
Button Sew-on Program	1	1	1	1	1	1	1	1	1	1	1	1	1		
Alphabets / Monograms	10/1	10/1	10	7/1	6	5	7	5	4	4	2	2	1		
Darning Programs	2	2	2	3	2	2	2	2	1	1	1	1	1		
Feet & Basic Accessories															
Feet as standard	1C, 1D, 2A, 3A, 3C, 4D, 5, 18, 20C, 40C, 42 (Emb - 26)	1C, 1D, 2A, 3A, 3C, 4D, 5, 18, 20C, 40C, 42 (Emb - 26)	1C, 1D, 3A, 4D, 5, 20C, 37D, 42	1C, 1D, 2A, 3A, 4D, 5, 8D, 20C, 40C, 42 (Emb - 26)	1C, 1D, 3A, 4D, 5, 20C, 37D, 42 (Emb - 26)	1C, 1D, 3A, 4D, 5 (Emb - 26)	1C, 2A, 3A, 4, 5, 8, 20C, 42 (Emb - 26)	1C, 2A, 3A, 4, 5, 20C (Emb - 26)	1, 3A, 4, 5, 20, 37, 42, 50	1, 2, 3A, 4, 5	1, 2, 3A, 4, 5, 8, 20	Shank with Soles: 1, 4, 5, 20, 37. 3A foot 50 foot	Shank with Soles: 1, 2, 4, 5. 3A foot	Shank with Soles: 1, 2, 3, 4, 5	Shank with Soles: 1, 2, 3, 4, 5
Slide-on Table with Seam Guide as standard	•	•	•	•	• (No Guide)	• (No Guide)	•	•	• (No Guide)	•	•	•	•	•	Optional
Accessory Case	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Box	1 Accessory Bag	1 Accessory Bag	1 Accessory Pouch	1 Accessory Box
Machine Cover / Carrier Bag	Soft Cover	Soft Cover	Soft Cover	Soft Cover	Soft Cover	Soft Cover	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Soft Cover	Soft Cover	Soft Cover	Soft Cover	Soft Cover
Warranty	20 years Mechanical; 5 years Electronic; 2 years Electrical														

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Embroidery Features						
Embroidery Speed (stitches per minute) The BERNINA 8 Series has the fastest embroidery speed of any domestic sewing machine.	1000	1000	1000	1000	680	680
Embroidery Field BERNINA offers a broad range of embroidery fields to fit your style of embroidery.	15.75" x 10.25" 400mm x 260mm	15.75" x 10.25" 400mm x 260mm	15.75" x 8.25" 400mm x 210mm	15.75" x 8.25" 400mm x 210mm	10" x 5.7" 255mm x 145mm	10" x 5.7" 255mm x 145mm
Embroider Sewing Stitches Import sewing stitches/stitch combinations into embroidery for stitching!	• Integrated	•	• Integrated			
Endless Embroidery Endless Embroidery helps you line up embroidery motifs in a vertical orientation and indicates the most precise placement for borders and re-hooping.	•	•	•			
Shaping Motifs and imported stitches can be arranged in different formations such as rectangles, circles, hearts, stars, arcs and more.	•					
Drag and Drop Editing in Embroidery Drag and Drop Editing allows for easy positioning of embroidery motifs.	•	•	•	•	•	•
Rotate, Move, and Mirror Image Designs Rotate, Move, and Mirror Image Embroidery Motifs for optimal placement on projects.	•	•	•	•	•	•
Duplicate, Add/Combine Designs & Lettering On-screen Duplicate Embroidery Motifs; add/combine multiple Embroidery Motifs; and add/combine Lettering on-screen.	•	•	•		•	

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Rescaling of Designs Enlarge or reduce motifs proportionally on-screen. Increasing/decreasing in a range of +/- 20% provides the best results. <i>With the 880, 830 & 780, also scale motifs by height and/or width independently.</i>	•	•	•	•	•	•
Absolute Check Check individual stitch locations for precise placement of your designs. On-screen, select any point within a design and the needle moves to that position.	•	•	•	•	•	•
Check Box Easily fine-tune your design placement with a Check Box. Draw a square around your design & activate centering for placement; the arm is also engaged to recognize the hoop.	•		•		•	•
Built-in Embroidery Basting Stitch your choice of basting stitches before embroidering. Choose to baste around your motif, the inner hoop or none at all.	•	•	•	•	•	•
WordArt Present your lettering on a variety of vertical, horizontal and curved baselines.	•	•	•		•	
Adjust Stitch Density - Pull Compensation Change Stitch Density to complement varied fabric.	•	•	•		•	
Change Stitch Type Change a satin stitch to a fill stitch to complement varied fabrics.	•	•	•		•	
Color Wheel Quickly change color-ways of your motif on-screen; new colors are assigned to the current thread library.	•					
Stitch Motif as Single/Multi-Color Stitch an entire motif in one color without stopping or as a multi-color design.	•	•	•	•	•	•

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Color Resequence When selected, colors are automatically resequenced by color group.	•	•	•		•	
Change Thread Brand Quickly change thread brand on-screen to suit your project at hand.	•	•	•	•	•	•
View Stitch-out Time, Thread Colors, Size, Stitches	•	•	•	•	•	•
Free Arm Embroidery Embroider tubular items such as sleeves. <i>On the 8 Series, works with small, medium & large oval hoops.</i>	•	•	•	•	Optional	Optional
Embroidery Design Packages						
Built-in Embroidery Designs Select from an assortment of built-in motifs for ready embellishment of projects.	400	150	130	70	100	70
Built-in Embroidery Alphabet Fonts Select from a variety of alphabets for easy personalization.	23	18	12	4	7	4
Embroidery Accessories						
Embroidery Hoops as Standard	Large Oval, Medium, Small	Large Oval, Medium, Small	Large Oval, Medium, Small	Large Oval, Medium, Small	Large Oval, Medium	Large Oval, Medium
Embroidery Hoops as Optional	Jumbo, Maxi, Mega (no repositioning required)	Jumbo, Maxi, Mega (no repositioning required)	Jumbo (partial field), Maxi, Mega (no repositioning required)	Jumbo (partial field), Maxi, Mega (no repositioning required)	Small, Mega (repositioning required)	Small, Mega (repositioning required)
Embroidery Foot as Standard	26	26	26	26	26	26
Straight Stitch Plate as Standard	•	•	•	•		
Carrier Bag					•	•

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Embroidery Connectivity / Software						
USB Connection Enjoy rapid and direct connectivity for design transfer and updates.	2 For Embroidery Designs Updates	2 For Embroidery Designs Updates	1 For Embroidery Designs Updates	1 For Embroidery Designs Updates	1 For Embroidery Designs Updates	1 For Embroidery Designs Updates
ArtLink Embroidery Software Opens & saves designs in multiple formats. Mirrors, Rotates & Rescales motifs.	Free Download	Free Download	Free Download	Free Download	Free Download	Free Download
DesignerPlus / EditorPlus Embroidery Software Expand your embroidery horizon with professional quality software in 2 versions. <i>Your ideas can become an embroidered reality!</i>	Optional	Optional	Optional	Optional	Optional	Optional
DesignWorks Tools & Software Compatible Turn your BERNINA Embroidery Machine into a creative multi-media machine with the addition of CutWork, PaintWork and CrystalWork Tools and Software.	Optional	Optional	Optional	Optional	Optional	Optional