

## BERNINA Machine Feature Comparison – Sewing & Embroidery

BERNINA Model	830	820	730	635	630	580	550	530	450	380	350PE	330	215	1008
<b>General Machine Features</b>														
<b>Centrally Located Touch Screen</b> Ideally located, the touch screen is clear and easy to use. <i>The TFT screens on the 830, 820 &amp; 580 are ultra-responsive with high resolution colors.</i>	7" TFT Color	5" TFT Color	6" Color	4.75" Color	4.75" Color	4.3" TFT Color	LCD B & W	LCD B & W	LCD B & W	LCD B & W	LCD B & W	LCD B & W	LCD B & W	
<b>Stitch Access</b> Intuitive access to stitches allows you to focus on creativity.	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	One Touch System	Stitch Lever
<b>Illumination</b> The 8 Series has bright illumination in the needle area and over the free arm. Some models offer U-shaped Cool Fluorescent Light to brightly illuminate the stitching area.	30 LEDs	30 LEDs	CFL	CFL	CFL	12 LEDs	12 LEDs	12 LEDs	CFL	8 LEDs	8 LEDs	8 LEDs	LED	Standard Bulb
<b>On-screen Help</b> 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 Creative Consultant Tutorials	Tutorials-Embroidery only	Tutorials-Embroidery only	Help Animations Creative Consultant Tutorials	Creative Consultant	Creative Consultant						
<b>Automatic Needle Threading</b> 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	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	● Automatic	
<b>Needle Minder</b> Store settings for needle type.	●	●												
<b>Powerful DC Motor</b> Full power at all speeds provides for consistent stitching on multiple layers & heavy fabrics.	● Ultra Powerful	● Ultra Powerful	●	●	●	●	●	●	●	●	●	●	●	AC
<b>Eco Mode</b> Stand by mode saves energy.	●	●				●								
<b>Hook System</b> The CB Shuttle is the traditional BERNINA mechanism that produces the legendary BERNINA stitch quality. The BERNINA Rotary Hook produces a comparable stitch quality and allows a 9 mm stitch width and bobbin thread monitoring.	8 Series Rotary	8 Series Rotary	Rotary	CB	CB	Rotary	CB	CB	Rotary	CB	CB	CB	CB	CB

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<b>General Machine Features</b>														
<b>Separate Bobbin Winding Motor</b> Wind a bobbin quickly and <i>even</i> wind a bobbin even while sewing!	• Fill Level Control	• Fill Level Control	•	•	•	•	•	•	•	•	•	•		
<b>Jumbo Bobbin</b> The 8 Series' Jumbo Bobbin has 40% more thread capacity than standard bobbins.	•	•												
<b>Upper Thread Monitor</b> Stops the machine when the upper thread breaks or runs out.	•	•	•	•	•	•			Embroidery only					
<b>Bobbin Thread Sensor</b> Warns when the bobbin thread runs low.	• Enhanced	• Enhanced	•	•	•	•								
<b>Automatic Thread Cutter</b> The upper and lower threads are cut automatically or at the touch of a button.	•	•	•			•								
<b>Manual Thread Cutter</b> Ideally positioned cutting blades offer simple and safe cutting.	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Electronic Foot Control</b> Enjoy consistent control plus a heel/tap feature to raise and lower the needle.	•	•	•	•	•	•	•	•	•	Optional	Optional	Optional	Optional	
<b>Start/Stop with Slide Speed Control</b> 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.	•	•	•	•	•	•	•	•	•	•	•	•		
<b>USB Connection</b> Enjoy rapid and direct connectivity for information transfer.	2 Embroidery Designs; Updates	1 Updates	1 Embroidery Designs	1 Embroidery Designs	1 Embroidery Designs	1 Embroidery Designs; Updates	PC Connection for Updates	PC Connection For Updates	PC Connection Embroidery					
<b>Extended Arm</b> The 8 Series, with a 15-inch Extended Arm (12 inches to the right of the needle) offers outstanding maneuverability, freedom and comfort.	•	•												
<b>Design Skin Compatible</b> Show your creativity & personality. Design Skins transform your BERNINA into a stylish, individualized machine. Select from stock or custom-created skins.				•									•	

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<b>Sewing Features</b>														
<b>Maximum Sewing Speed</b> (stitches per minute) <i>The 8 Series has the fastest sewing speed of any domestic sewing machine.</i>	1100	1100	900	900	900	1000	900	900	900	900	900	900	900	1050
<b>BERNINA Stitch Regulator (BSR)</b> 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	● Straight Stitch/ Zigzag	● Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	● Straight Stitch/ Zigzag	Optional Straight Stitch/ Zigzag	Optional Straight Stitch					
<b>Integrated BERNINA Dual Feed</b> The 8 Series integrated BERNINA Dual Feed ensures even feeding of hard-to-manage fabrics with beautiful results.	●	●												
<b>Free Hand System (FHS)</b> 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	Optional		
<b>Maximum Stitch Length</b> (mm) The variable Stitch Length provides a smooth transition from length to length and can be adjusted while sewing.	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
<b>Maximum Stitch Width</b> (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	5.5	5.5	9.0	5.5	5.5	9	5.5	5.5	5.5	5.5	5.5
<b>Needle Positions</b> 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	9	9	9	9	5
<b>Needle Up / Down</b> Basic setting is needle stop up. Some models allow for selection of needle to stop in the raised (up) or lowered (down) position.	●	●	●	●	●	●	●	●	●	●	●	●	●	
<b>Directional &amp; Sideways-motion Stitching</b> Multi-directional Sewing expands your decorative stitch possibilities.	360 Directions		16 Directions											
<b>Tapering</b> Create and adjust the stitch taper before and after decorative stitch applications for unlimited design possibilities.	●	●												

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<b>Sewing Features</b>														
<b>Temporary Altered Stitch Memory</b> The Temporary Altered Stitch Memory remembers your stitch settings even if you switch to another pattern and then back.	•	•	•	•	•	•	•	•	•	•	•	•	•	
<b>Long-term Memory/Stitch Combinations</b> 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 80 MB	100	100	60	30	30	30		
<b>History Stitches</b> The History Screen lets you select your recent stitches.	15	12	15											
<b>Personal Program</b> The Personal Program records your individually altered stitches for future retrieval.	• 4 folders	• 2 folders	•	•	•	•								
<b>Security Program</b> 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.	•	•	•	•	•	•								
<b>Securing Function</b> The Securing Function automatically secures a single pattern or combination by adding some on the spot stitches at the start and finish.	• Ability to Program	• Ability to Program	•	•	•	•	•	•	•					
<b>Securing Stitch</b> The Securing Stitch automatically secures at the start and finish of a task with a short reverse sequence straight stitch.	•	•	•	•	•	•	•	•	•	•	•	•		
<b>Pattern Begin</b> Start sewing at the beginning of a pattern or sequence wherever you stopped.	•	•	•	•	•	•	•	•	•					
<b>Pattern End</b> No more half-finished patterns; machine stops after pattern is complete.	•	•	•	•	•	•	•	•	•	•	•	•		
<b>Mirror Image of Stitch Patterns</b> 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	H	H	H				
<b>Pattern Extend 2-5x</b> Program a stitch pattern to extend 2 – 5 times and the integrity of the stitch is maintained.	•	•	•	•	•									

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<b>Sewing Features</b>														
<b>Pattern Elongation</b> Extend stitch pattern length in 1% or 100% steps. Shortest length is 10%; maximum length is 1000%.						•								
<b>Pattern Repeat 1-9x</b> Program the machine to stop at the end of 1 – 9 repeats of a single stitch or stitch combination.	•	•	•	•	•	•	•	•						
<b>Long Stitch</b> Sews every second stitch; useful for practical and decorative applications. (exception: buttonholes and sideway motion stitches)	•	•	•			•								
<b>Basting Stitch</b> Quickly baste seams, hems and quilts.	•	•	•	•	•	•	•	•	•	•	•			
<b>Drag and Drop Editing</b> Simple drag and drop allows for easy positioning of sewing & embroidery designs.	•					•								
<b>Quick Reverse / Continuous Reverse</b> Sew backwards at a touch of a button.	•	•	•	•	•	•	•	•	•	•	•	•	•	
<b>Presser Foot Pressure Adjustment</b> Adjust the foot pressure to eliminate skipped stitches on thick fabrics and wavy seams on knits.	•	•	•	•	•	•	•	•	•					
<b>Automatic One-Step Buttonhole with Memory Function</b> Quickly set the length of the One-Step Buttonhole. Held in memory, the same size buttonhole may be repeated. <i>The 830, 820 and 580 also adjusts the buttonhole width.</i>	• Width Adjustment Also	• Width Adjustment Also	•	•	•	• Width Adjustment Also	•	•	•	•	•	•		
<b>On-screen Buttonhole Measuring</b> Hold a button to the screen and set the length by adjusting a knob.	•	•	•	•	•	•								
<b>Sew-on Button Program</b> Readily sew-on two and four hole buttons.	•	•	•	•	•	•	•	•	•	•	•	•		
<b>Hopper Mechanism</b> For free-motion stitching, the hopper mechanism ensures the needle and presser foot are working with you to form beautiful stitches.	•	•	•	•	•	•	•	•	•	•	•	•	•	

<b>BERNINA Model</b>	<b>830</b>	<b>820</b>	<b>730</b>	<b>635</b>	<b>630</b>	<b>580</b>	<b>550</b>	<b>530</b>	<b>450</b>	<b>380</b>	<b>350PE</b>	<b>330</b>	<b>215</b>	<b>1008</b>
<b>Stitch Packages</b>														
<b>Total Stitches</b>	1162	773	1168	630	674	227	187	148	430	232	202	99	11	17
Practical Stitches	32	24	27	27	27	29	22	22	23	20	20	17	10	14
Decorative Stitches	540	289	267	200	188	172	131	105	120	79	52	19		2
Quilting Stitches	28	30	31	15	28	14	24	12	15	12	11	3		
Sideways-motion Stitches	115		111											
Buttonholes / Eyelets	10/2	6/2	10/2	7	7/2	8/2	7/2	7/1	9/2	4	2	1	1	1
Alphabets	13	8	6	3	4	7	4	4	4	2	2	1		
Darning Programs	2	2	2	1	2	2	1	1	1	1	1	1		
<b>Feet &amp; Basic Accessories</b>														
<b>Feet as standard</b>	1C, 1D, 2A, 3C, 3A, 4D, 5, 18, 20C, 40C, 42 (Emb - 26)	1C, 1D, 3A, 4D, 5, 20C, 37D, 42	1C, 2A, 3A, 3C, 4, 5, 8, 18, 20C, 40C, 42 (Emb - 26)	1, 3A, 4, 5, 20, 43, 83 (Emb - 26)	1, 2, 3, 3A, 4, 5, 9, 20 (Emb - 26)	1C, 2A, 3A, 4, 5, 8, 20C (Emb - 26)	1, 3A, 4, 5, 20, 37, 42, 50	1, 2, 3A, 4, 5	1C, 2A, 3A, 4, 5, 9, 20C (Emb - 26)	Shank with Soles: 1, 2, 4, 5, 8, 20. 3A foot	Shank with Soles: 1, 4, 5, 20, 37. 3A 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
<b>Slide-on Table with Guide as standard</b>	•	•	•	•	•	•	•	•	•	•	•	Optional	Optional	Optional
<b>Accessory Case</b>	1 Accessory Wardrobe	1 Accessory Wardrobe	2 Accessory Wardrobes	1 Accessory Wardrobe	1 Accessory Wardrobe	1 Accessory Box	1 Accessory Box	1 Accessory Box	1 Accessory Wardrobe	1 Accessory Box	1 Accessory Bag	1 Accessory Bag	1 Accessory Pouch	1 Accessory Box
<b>Machine Cover / Carrier Bag</b>	Soft Cover	Soft Cover	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Carrier Bag	Soft Cover Wheeled Tote Bag	Soft Cover	Soft Cover	Soft Cover
<b>Warranty</b>	20 years Mechanical; 5 years Electronic; 2 years Electrical													

<b>BERNINA Model 830 Limited Edition</b>
<b>Gift with Purchase</b>
Limited Edition Tin Limited Edition USB Stick Limited Edition 1000 Design CD Limited Edition Alphabet Limited Edition Owner VIP Retreat Invitation Valuable Coupons



<b>BERNINA Model</b>	<b>830</b>	<b>730E</b>	<b>580E</b>	<b>635E</b>	<b>630E</b>	<b>450E</b>
<b>Embroidery Features</b>						
<b>Embroidery Speed</b> (stitches per minute) The BERNINA 830 has the fastest embroidery speed of any domestic sewing machine.	1000	680	680	680	680	680
<b>Embroidery Field</b> BERNINA offers a broad range of embroidery fields to fit your style of embroidery.	15.75" x 10.24" 400mm x 260mm	10" x 5.7" 255mm x 145mm	10" x 5.7" 255mm x 145mm	10" x 5.7" 255mm x 145mm	10" x 5.7" 255mm x 145mm	10" x 5.7" 255mm x 145mm
<b>Embroider Sewing Stitches</b> Import sewing stitches/stitch combinations into embroidery for stitching!	•					
<b>Endless Embroidery</b> Endless Embroidery helps you line up embroidery motifs in a vertical orientation and indicates the most precise placement for borders and re-hooping.	•					
<b>Drag and Drop Editing</b> Drag and Drop Editing allows for easy customization of sewing and embroidery motifs.	•		•			
<b>Absolute Check</b> Absolute Check allows you to set your needle to any place within your design so you have total control of where you place your designs.	•		•			
<b>Check Box</b> 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.		•	•			
<b>Built-in Embroidery Basting</b> With Embroidery Basting on-screen, stitch your choice of basting stitches before embroidering. Choose to baste around your motif, the inner hoop or both.	•		•			
<b>Rescaling of Designs</b> Enlarge or Reduce motifs while maintaining stitch integrity. <i>With the 830, enlarge or reduce motifs any percentage, plus scale motifs by height and/or width independently.</i>	•	•	•	•	•	via EC on PC & ART Design Software
<b>Stitch Motif as Single or Multi-Color</b> Stitch an entire motif in one color without stopping or as a multi-color design.	•	•	•	•	•	via EC on PC & ART Design Software



<b>BERNINA Model</b>	<b>830</b>	<b>730E</b>	<b>580E</b>	<b>635E</b>	<b>630E</b>	<b>450E</b>
<b>Embroidery Features</b>						
<b>Rotate, Mirror Image and Duplicate Designs</b> Rotate, Mirror Image and Duplicate Embroidery Motifs for optimal placement on projects.	•	•	•	•	•	via EC on PC & ART Design Software
<b>Combine Designs &amp; Lettering On-screen</b> Combine Embroidery Motifs and add Lettering on-screen	•	•	•	•	•	via EC on PC & ART Design Software
<b>WordArt</b> Present your lettering on a variety of vertical, horizontal and curved baselines.	•	•	•			via EC on PC & ART Design Software
<b>Adjust Stitch Density - Pull Compensation</b> Change Stitch Density to complement varied fabric	•	•	• Change Satin Stitch to Step Stitch	•	•	
<b>View Stitch-out Time, Thread Colors, Size, Stitches</b>	•	•	•	•	•	via EC on PC & ART Design Software
<b>Built-in Embroidery Designs</b> Select from an assortment of built-in motifs for ready embellishment of projects.	150 <i>Ltd Edition also includes 1000 Design CD</i>	21 plus 76 on USB stick	100	80	70	40 via ART Design Software
<b>Built-in Embroidery Alphabet Fonts</b> Select from a variety of alphabets for easy personalization.	18 <i>Ltd Edition also includes LE Specialty Alphabet</i>	10	7	4 + Paisley	5	Auto-Digitize True-type Fonts via ART Design Software
<b>Free Arm Embroidery</b> Embroider tubular items such as sleeves.	•	•	Optional	Optional	Optional	Optional
<b>Embroidery Hoops as Standard</b>	Large Oval, Medium, Small	Large Oval, Medium, Small	Large Oval, Medium	Large Oval	Large Oval	Large Oval
<b>Embroidery Hoops as Optional</b>	Jumbo, Mega	Mega	Mega, Small	Mega, Medium, Small	Mega, Medium, Small	Mega, Medium, Small
<b>Embroidery Foot as Standard</b>	26	26	26	26	26	26

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<b>Embroidery Features</b>						
<b>USB Connection</b> Enjoy rapid and direct connectivity for design transfer.	2 For Emb Designs; Updates	1 For Emb Designs	1 For Emb Designs; Updates	1 For Emb Designs	1 For Emb Designs	PC Connection for Embroidery
<b>ArtDesign Embroidery Software</b> Opens designs in multiple formats. Mirrors, Rotates & Rescales motifs. Auto-digitizes True-type fonts.						• Included via EC on PC
<b>ArtLink Embroidery Software</b> Opens & saves designs in multiple formats. Mirrors, Rotates & Rescales motifs.	Free Download	Free Download	Free Download	Free Download	Free Download	Free Download
<b>DesignerPlus / EditorPlus Embroidery Software</b> 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
<b>Carrier Bag</b>		•	•	•	•	•