



## BERNINA 830 / 820 Feature Comparison

BERNINA Model	830	820
<b>General Machine Features</b>		
<b>Centrally Located Touch Screen</b> Ideally located, the touch screen is clear and easy to use. <i>The large TFT screens on the 8 series are ultra-responsive with high resolution colors.</i>	7" TFT Color	5" TFT Color
<b>Stitch Access</b> Intuitive access to stitches allows you to focus on creativity.	Touch Screen	Touch Screen
<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	30LEDs
<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
<b>Automatic Needle Threading</b> Thread the needle with ease. <i>The 8 Series even threads the machine and needle in one simple process.</i>	• Fully Automatic	• Fully Automatic
<b>Needle Minder</b> Store settings for needle type.	•	•
<b>Powerful DC Motor</b> Full power at all speeds for consistent stitching on the multiple layers & heavy fabrics	• Ultra Powerful	• Ultra Powerful
<b>Eco Mode</b> Stand by mode saves energy.	•	•
<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.	•	•

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<b>General Machine Features</b>		
<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>Electronic Foot Control</b> Enjoy consistent control plus a heel/tap feature to raise and lower the needle.	•	•
<b>Hook System</b> The BERNINA Rotary Hook produces the legendary BERNINA stitch quality and allows a 9 mm width, bobbin thread monitoring and automatic needle threading.	8 Series Rotary	8 Series Rotary
<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.	•	•
<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>USB Connection</b> Enjoy rapid and direct connectivity for information transfer.	2 For Emb Designs; Updates	1 For Updates

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BERNINA Model	830	820
<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
<b>BERNINA Stitch Regulator (BSR)</b> The patented BERNINA Stitch Regulator (BSR) provides consistent free-motion stitching even at high speeds	•	•
<b>Integrated BERNINA Dual Feed</b> The 8 Series integrated BERNINA Dual Feed ensures even feeding of hard-to-manage fabrics.	•	•
<b>Free Hand System (FHS)</b> Knee operated lever raises the presser foot, lowers the feed dog & releases the thread tension keeping your hands on the fabric while guiding and pivoting.	•	•
<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
<b>Maximum Stitch Width</b> (mm) The 9mm maximum stitch width expands your design possibilities.	9	9
<b>Needle Positions</b> Multiple Needle Positions allow for very precise sewing. Sew most patterns in any needle position.	11	11
<b>Directional &amp; Sideways-motion Stitching</b> Multi-directional Sewing expands your decorative stitch possibilities.	360 Directions	
<b>Tapering</b> Create and adjust the taper before and after stitches for limitless design possibilities.	•	•
<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>Hopper Mechanism</b> 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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<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 decorative stitch combinations including lettering. Patterns remain in memory even after the machine is turned off	Multiple Drawers	Multiple Drawers
<b>History Stitches</b> The History Screen lets you select your recent stitches.	15	12
<b>Personal Program</b> The Personal Program records your individually altered stitches for future retrieval.	• 4 folders	• 2 folders
<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> 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
<b>Drag and Drop Editing</b> Simple drag and drop allows for easy positioning of sewing & embroidery designs.	•	
<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 8 Series also adjusts the buttonhole width.</i>	• 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.	•	•

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BERNINA Model	830	820
<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	
<b>Embroidery Field</b> BERNINA offers a broad range of embroidery fields to fit your style of embroidery.	15.75" x 10"	
<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>Embroidery Sewing Stitches</b> Import sewing stitches/stitch combinations into embroidery for stitching!	•	
<b>Endless Embroidery</b> Endless Embroidery with an informative user interface and sequencing of colors helps you line up embroidery motifs in 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>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 you have the ability to scale motif by height and/or width.</i>		
<b>Rotate, Mirror Image and Duplicate Designs</b> Rotate, Mirror Image and Duplicate Embroidery Motifs for optimal placement on project.	•	
<b>Combine Designs &amp; Lettering On-screen</b> Combine Embroidery Motifs and add Lettering on-screen	•	
<b>WordArt</b> Present your lettering on a variety of vertical, horizontal and curved baselines.	•	

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<b>Embroidery Features</b>		
<b>Adjust Stitch Density - Pull Compensation</b>	•	
<b>View Stitch-out Time, Thread Colors, Size, Stitches</b>	•	
<b>Built-in Embroidery Designs</b> Select from an assortment of built-in motifs for ready embellishment of projects.	150	
<b>Built-in Embroidery Alphabet Fonts</b> Select from a variety of alphabets for easy personalization.	18	
<b>Free Arm Embroidery</b> Embroidery tubular items such as sleeves.	•	
<b>Embroidery Hoops as Standard</b>	Large Oval, Medium, Small	
<b>Embroidery Hoops as Optional</b>	Jumbo, Mega	
<b>Embroidery Foot as Standard</b>	26	
<b>ART Design Software</b> Opens multiple formats. Mirrors, Rotates & Rescales motifs. Auto-digitizes True-type fonts.	Free Download BOA website	
<b>DesignerPlus / EditorPlus Software</b> Expand your embroidery horizon with professional quality software in 2 versions. <i>Your ideas can become an embroidered reality!</i>	Optional	
<b>USB Connection</b> Enjoy rapid and direct connectivity for design transfer.	2 For Emb Designs	

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BERNINA Model	830	820
<b>Stitch Packages</b>		
<b>Total Stitches</b> (excludes alphabets)	612	351
Practical Stitches	32	24
Decorative Stitches	540	289
Quilting Stitches	28	30
Buttonholes / Eyelets	10/2	6/2
<b>Alphabets</b>	13	8
<b>Darning Programs</b>	2	2
<b>Sideways-motion Stitches</b>	115	
<b>Warranty</b>		
20 years Mechanical; 5 years Electronic; 2 years Electrical	•	•

BERNINA Model	830	820
<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
<b>Accessory Case</b>	2 Accessory Wardrobes	1 Accessory Wardrobe
<b>Machine Cover</b>	Soft Cover	Soft Cover



**BERNINA 830**



**BERNINA 820**