



BERNINA 830 / 820 Feature Comparison

BERNINA Model	830	820
General Machine Features		
Centrally Located Touch Screen 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
Stitch Access Intuitive access to stitches allows you to focus on creativity.	Touch Screen	Touch Screen
Illumination 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
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
Automatic Needle Threading Thread the needle with ease. <i>The 8 Series even threads the machine and needle in one simple process.</i>	• Fully Automatic	• Fully Automatic
Needle Minder Store settings for needle type.	•	•
Powerful DC Motor Full power at all speeds for consistent stitching on the multiple layers & heavy fabrics	• Ultra Powerful	• Ultra Powerful
Eco Mode Stand by mode saves energy.	•	•
Extended Arm 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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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.	•	•
Electronic Foot Control Enjoy consistent control plus a heel/tap feature to raise and lower the needle.	•	•
Hook System 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
Separate Bobbin Winding Motor Wind a bobbin quickly and <i>even</i> wind a bobbin even while sewing!	• Fill Level Control	• Fill Level Control
Jumbo Bobbin The 8 Series' Jumbo Bobbin has 40% more thread capacity than standard bobbins.	•	•
Upper Thread Monitor Stops the machine when the upper thread breaks or runs out.	•	•
Bobbin Thread Sensor Warns when the bobbin thread runs low.	• 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.	•	•
USB Connection Enjoy rapid and direct connectivity for information transfer.	2 For Emb Designs; Updates	1 For Updates

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Sewing Features		
Maximum Sewing Speed (stitches per minute) <i>The 8 Series has the fastest sewing speed of any domestic sewing machine.</i>	1100	1100
BERNINA Stitch Regulator (BSR) The patented BERNINA Stitch Regulator (BSR) provides consistent free-motion stitching even at high speeds	•	•
Integrated BERNINA Dual Feed The 8 Series integrated BERNINA Dual Feed ensures even feeding of hard-to-manage fabrics.	•	•
Free Hand System (FHS) 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.	•	•
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
Maximum Stitch Width (mm) The 9mm maximum stitch width expands your design possibilities.	9	9
Needle Positions Multiple Needle Positions allow for very precise sewing. Sew most patterns in any needle position.	11	11
Directional & Sideways-motion Stitching Multi-directional Sewing expands your decorative stitch possibilities.	360 Directions	
Tapering Create and adjust the taper before and after stitches for limitless design possibilities.	•	•
Quick Reverse / Continuous Reverse Sew backwards at a touch of a button.	•	•
Presser Foot Pressure Adjustment Adjust the foot pressure to eliminate skipped stitches on thick fabrics and wavy seams on knits.	•	•
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 Features		
Temporary Altered Stitch Memory The Temporary Altered Stitch Memory remembers your stitch settings even if you switch to another pattern and then back.	•	•
Long-term Memory/Stitch Combinations Create and store decorative stitch combinations including lettering. Patterns remain in memory even after the machine is turned off	Multiple Drawers	Multiple Drawers
History Stitches The History Screen lets you select your recent stitches.	15	12
Personal Program The Personal Program records your individually altered stitches for future retrieval.	• 4 folders	• 2 folders
Securing Function 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
Securing Stitch Automatically secures at the start and finish of a task with a short reverse sequence straight stitch.	•	•
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.	•	•
Mirror Image of Stitch Patterns Sew the mirror image of a stitch pattern with options. H = horizontal V = vertical	H / V	H / V
Drag and Drop Editing Simple drag and drop allows for easy positioning of sewing & embroidery designs.	•	
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>The 8 Series also adjusts the buttonhole width.</i>	• Width Adjustment Also	• Width Adjustment Also
On-screen Buttonhole Measuring Hold a button to the screen and set the length by adjusting a knob.	•	•

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Embroidery Features		
Embroidery Speed (stitches per minute) The BERNINA 830 has the fastest embroidery speed of any domestic sewing machine.	1000	
Embroidery Field BERNINA offers a broad range of embroidery fields to fit your style of embroidery.	15.75" x 10"	
Absolute Check 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.	•	
Embroidery Sewing Stitches Import sewing stitches/stitch combinations into embroidery for stitching!	•	
Endless Embroidery 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.	•	
Drag and Drop Editing Drag and Drop Editing allows for easy customization of sewing and embroidery motifs.	•	
Built-in Embroidery Basting With Embroidery Basting on-screen, stitch your choice of basting stitches before embroidering. Choose to baste around your motif, the inner hoop or both.	•	
Rescaling of Designs 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>		
Rotate, Mirror Image and Duplicate Designs Rotate, Mirror Image and Duplicate Embroidery Motifs for optimal placement on project.	•	
Combine Designs & Lettering On-screen Combine Embroidery Motifs and add Lettering on-screen	•	
WordArt Present your lettering on a variety of vertical, horizontal and curved baselines.	•	

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

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

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Feet & Basic Accessories		
Feet as standard	1C, 1D, 2A, 3C, 3A, 4D, 5, 18, 20C, 40C, 42 (Emb - 26)	1C, 1D, 3A, 4D, 5, 20C, 37D, 42
Accessory Case	1	1
Machine Cover	Soft Cover	Soft Cover



BERNINA 830



BERNINA 820