

BERNETTE MODEL COMPARISON CHART

ALL SEWING MACHINES AT A GLANCE



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SEWING, QUILTING AND EMBROIDERING ALL MODEL COMPARISON CHART

Model	b79	b77	b70 DECO	bernette 05 CRAFTER	b05 ACADEMY	b38	b37	b35	b33
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GENERAL MACHINE FEATURES									
Space to the Right of the Needle More sewing and embroidery space to the right of the needle offers comfort and more maneuverability when stitching large and small projects.	230 mm (9")	230 mm (9")	230 mm (9")	165 mm (6.5")	165 mm (6.5")	170 mm (6.7")	170 mm (6.7")	170 mm (6.7")	170 mm (6.7")
Workspace Height The extra height presents more space for quilts and spacious large projects and makes sewing easier in general.	127 mm (5")	127 mm (5")	127 mm (5")	104 mm (4.1")	104 mm (4.1")	109 mm (4.3")	109 mm (4.3")	109 mm (4.3")	109 mm (4.3")
Centrally Located Color Touch Screen Large, clear, everything at eye level, and easy to operate thanks to intuitive navigation. The built-in touchscreen can be operated via fingertip or stylus. The background color and brightness can be adjusted.	5"	5"	5"	-	-	-	-	-	-
Centrally Located LCD Screen LCD display for intuitive navigation shows all settings directly on the screen.	-	-	-	-	-	✓	✓	-	-
Multi-function Knobs Easily accessible knobs for stitch setting in increments of 0.1 before and during sewing for smooth blending. When embroidering to adjust and modify embroidery designs.	✓	✓	✓	-	-	-	-	-	-
LED Sewing Light Bright illumination in the needle area and above the freearm. With the b70 series models, the brightness is adjustable.	4	4	4	2	2	1	1	1	1
Semi-automatic Needle Threader Easy threading of the needle.	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual Thread Cutters The ideally positioned thread cutter in the needle area facilitates easy and safe cutting.	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hook System The bernette CB hook guarantees reliable stitch quality with a stitch width of 5 mm. The bernette drop-in hook offers the same stitch quality with 6 or 7 mm stitch width.	Drop-in	Drop-in	Drop-in	Drop-in	Drop-in	Drop-in	Drop-in	CB	CB
Bobbin Winding Fast and even winding of the bobbin after activating the winding function and pressing the start/stop button or pressing the foot control.	Start/Stop Button	Start/Stop Button	Start/Stop Button	Foot Control	Foot Control	Start/Stop Button	Start/Stop Button	Foot Control	Foot Control
Electronic Foot Control The electronic foot control provides smooth speed regulation, starts and stops.	-	-	-	✓	✓	✓	✓	✓	✓
Programmable Foot Control In addition to the speed control, the foot control provides a back-kick function to raise and lower the needle. The back-kick function can also be programmed with securing stitches, the automatic thread cut, and raising the presser foot.	✓	✓	-	-	-	-	-	-	-
Thread-up Command Push the needle up/down button to lower and raise the needle to bring the bobbin thread to the top of the fabric so the threads can be secured manually. Perfect for quilting and free-standing lace.	✓	✓	✓	-	-	✓	✓	-	-

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Two Level Presser Foot Lift When sewing particularly thick fabrics or multiple layers, the presser foot is raised to an extra height to make it easier to position the work. With the b77/b79 this can also be done by using the freehand system.	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automatic Presser Foot Lifter Convenient automatic presser foot lowering and raising. Press the foot control to lower the presser foot, and sewing or embroidering can be started. At the end of the sewing or embroidery process, the foot is raised automatically.	✓	✓	✓	-	-	-	-	-	-
Automatic Thread Cutter The cut of the upper and bobbin threads is done automatically or at the push of the button. The upper thread is pulled to the wrong side of the fabric. With the b70 series models, the presser foot is also raised and securing stitches can be added.	✓	✓	✓	-	-	✓	-	-	-
Adjustable Presser Foot Pressure Adjust the presser foot pressure to eliminate skipped stitches and wavy seams on knits. The b70 Series is adjusted electronically, the other models by means of a hand wheel.	✓	✓	-	✓	✓	✓	-	-	-
Automatic Presser Foot Pressure If the function is activated in the Setup Program, the machine continuously monitors the current fabric thickness during sewing and automatically adjusts the presser foot pressure. This ensures an even fabric feed.	✓	✓	-	-	-	-	-	-	-
Lower Thread Sensor Warns when the bobbin thread runs low.	✓	✓	✓	-	-	-	-	-	-
Upper Thread Sensor Indicates when the upper thread breaks or runs out.	✓	✓	✓	-	-	-	-	-	-
Tutorial Provides instructions on sewing techniques as well as information on threading, needles and other machine settings. Important tips and information on using the embroidery module can be accessed as needed.	✓	-	✓	-	-	-	-	-	-
eco Mode The stand-by mode saves energy and includes a child lock. The Eco mode is automatically activated during a longer pause or can be activated by pressing the button.	✓	✓	✓	-	-	-	-	-	-
Machine Type The electronic models have numerous preset settings that can be adjusted individually. With the mechanical models, the settings are made manually.	Electronic	Electronic	Electronic	Mechanical	Mechanical	Electronic	Electronic	Mechanical	Mechanical
Retractable Feed Dog The feed dog can be lowered for work such as free-motion sewing, quilting, embroidery, etc. With the b79, this is done automatically when the embroidery module is attached.	✓	✓	-	✓	✓	✓	✓	✓	✓
Automatic Stitch Plate Detection The machine automatically detects which stitch plate is attached. Similar to the Safety Program, the stitch width is then automatically limited to prevent the needle from hitting the stitch plate.	✓	✓	-	-	-	-	-	-	-
bernette Dual Feed Simultaneous fabric feed from above and below by means of the bernette Dual Feed provides even feed of difficult-to-process fabrics with beautiful results. Can be deactivated when not needed. The Dual Feed can be used in combination with all presser feet with the recess at the back.	✓	✓	-	-	-	-	-	-	-
bernette Free Hand System (FHS) The freehand system raises and lowers the presser foot. This leaves both hands free to guide or to rotate the fabric.	✓	✓	-	-	-	-	-	-	-

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Speed Control The maximum sewing speed can be reduced. This is very helpful for exact sewing work or for sewing beginners.	✓	✓	✓	-	-	✓	✓	-	-
Power Switch with Speed Limit When the machine is switched on, the maximum sewing speed or a limitation of the maximum speed can be selected.	-	-	-	-	✓	-	-	-	-
Motor Type The powerful motors of the bernette models provide sewing quality when sewing thin and heavy fabrics or multiple layers of fabric. The DC motor specifically also supports slow and precise sewing.	DC	DC	DC	AC	AC	AC	AC	AC	AC

SEWING AND QUILTING									
Maximum Sewing Speed (stitches per minute) The bernette models provide consistent through-stitch performance and stitch formation at all speed levels.	1000 spm	1000 spm	-	1100 spm	1100 spm	820 spm	700 spm	860 spm	860 spm
Maximum Stitch Width The variable stitch width can be adjusted during sewing. The b38, b37 and b70 series offer a stitch width of 7 mm and extend the options. With the b70 series, the stitch width can be set in 0.1 mm increments for precise fine-tuning.	7 mm	7 mm	-	6 mm	6 mm	7 mm	7 mm	5 mm	5 mm
Maximum Stitch Length The variable stitch length provides a smooth transition of different lengths and can be adjusted during sewing. With the b70 series, the stitch length can be adjusted in 0.1 mm increments for precise fine tuning.	5 mm	5 mm	-	4 mm	4 mm	5 mm	5 mm	4 mm	4 mm
Auto Preset of Stitch Width and Length When a stitch is selected, the stitch length and width are set automatically. These settings can be adjusted individually at any time.	✓	✓	-	-	-	✓	✓	-	-
Adjustable Needle Positions Different needle positions facilitate very precise sewing. Can only be used with straight stitch on the b30 series models, and only from center to left on the b33 and b35. The b05 models have 3 fixed needle positions, infinitely variable within this range.	15	15	-	3	3	15	15	14	14
Presser Foot Recommendation The display shows the recommended presser foot for general use of the selected stitch. The other suitable presser feet are marked with an asterisk with the b70 series.	✓	✓	✓	-	-	✓	✓	-	-
Presser Foot Library Access to an integrated library with current sewing feet. For the b77 and b79, further information on the application and use can be opened.	✓	✓	✓	-	-	-	-	-	-
Security Function for Needle and Stitch Plate After selecting the appropriate needle type (single, double or wing needle) and automatic stitch plate recognition, the stitch width is automatically matched accordingly to the stitch. This prevents the needle from hitting the foot and/or the stitch plate.	✓	✓	-	-	-	-	-	-	-
One-step Buttonhole The length is automatically determined by the button inserted in the button holder plate. Both beads are sewn in the same direction (front to back), giving a consistent result in just one step.	✓	✓	-	✓	✓	✓	✓	✓	-
4-step Buttonhole Buttonholes to be repeated, corresponding to the size of the selected button, are created with the four-step Buttonhole Program.	-	-	-	-	-	-	-	-	✓

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Personal Memory To save individually modified stitches that can be called up again later. Stitches are retained until they are deleted from the personal program memory.	✓	✓	-	-	-	-	-	-	-
Temporary Altered Stitch Memory Stitch settings are remembered during the sewing session. This saves time when repeating stitches in a project.	✓	✓	-	-	-	-	-	-	-
Stitch Designer Create your own stitches or edit existing stitch patterns. Straight stitch patterns can be converted to triple stitch patterns.	✓	-	-	-	-	-	-	-	-
Creative Consultant Sewing Get reliable support for various applications and fabrics from the integrated Sewing Consultant. Makes suggestions regarding needles, presser foot, stabilizer etc.	✓	✓	-	-	-	-	-	-	-
Pattern Repeat To program the machine to stop at the end of a programmed number of design repetitions.	✓	✓	-	-	-	-	-	-	-
Pattern Begin This function facilitates the sewing start at the beginning of the design, no matter where it was stopped before.	✓	✓	-	-	-	-	-	-	-
Pattern End No more half-finished patterns; the machine stops when the pattern is finished. With the b38 and b37, this function is coupled with the automatic securing key.	✓	✓	-	-	-	✓	✓	-	-
Mirror-image Function Horizontal or vertical mirroring of the stitch extends the design possibilities (b38 horizontal mirroring only).	✓	✓	-	-	-	✓	-	-	-
Elongation Satin stitch patterns can be elongated in 100% increments for decorative effects. The maximum length is 500%.	✓	✓	-	-	-	-	-	-	-
Basting Stitch Basting seams, hems and quilts.	✓	✓	-	-	-	-	-	-	-
Quick Reverse Sewing As long as the button or the lever is pressed, the stitch is sewn in reverse. Ideal for quickly securing the beginning and end of the seam.	✓	✓	-	✓	✓	✓	✓	✓	✓
Continous Reverse Sewing in reverse when the function is activated. The reverse sewing button can be programmed for either reverse sewing or precise stitch-by-stitch reverse sewing.	✓	✓	-	-	-	-	-	-	-
Backstepping The stitch pattern is sewn precisely backwards stitch by stitch.	✓	✓	-	-	-	-	-	-	-
Programmable Securing Function Automatically secures a single pattern or combination by adding some on the spot stitches.	✓	✓	-	-	-	✓	✓	-	-
Start/Stop Button (stitching without foot 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.	✓	✓	✓	-	-	✓	✓	-	-
Presser Foot Hover Function The Hover Function is activated with a short tap on the Start/Stop button to reposition the sewing project. Can also be programmed together with the function "Needle stop down" to easily rotate the sewing material. The hover height can be adjusted in the Setup Program.	✓	✓	-	-	-	-	-	-	-

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Freearm Sewing The slide-on table and the accessories box are removable which gives access to the freearm. This is convenient when sewing tubular parts such as trouser hems, cuffs or children's items.	✓	✓	–	✓	✓	✓	✓	✓	✓
Total Number of Sewing Stitch Patterns (incl. alphabets)	500	500	–	30	30	394	50	23	15
Alphabets	3	3	–	–	–	3	–	–	–
Decorative Stitches	133	133	–	8	8	67	19	8	–
Button Sew-on Program	1	1	–	–	–	–	–	–	–
Buttonholes/Eyelets	17	17	–	1	1	8	5	1	1
Practical Stitches	22	22	–	18	18	20	17	14	14
Quilting Stitches	35	35	–	3	3	25	7	–	–
Darning Programs	2	2	–	–	–	2	2	–	–
Balance Setting The balance setting is used to balance forward and backward stitches so that the stitch formation can be adjusted to the material as required. With the b77/b79, this is visually displayed and adjusted on the screen.	✓	✓	–	✓	✓	✓	✓	–	–
Adjustable Upper Thread Tension The thread tension can be adjusted depending on the fabric type and stitch type. With the b70 series models, the values are preset and can be adjusted on the screen if required. With other models, this is done via a setting dial.	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable Stitch Width With the b33, the stitch width can only be changed for the zigzag stitch, with the b05 only for some stitches.	✓	✓	–	✓	✓	✓	✓	✓	–
Adjustable Stitch Length The Adjustable Stitch Length helps to set the optimal stitch for the selected fabric or the chosen project.	✓	✓	–	✓	✓	✓	✓	✓	✓
Needle Stop Up/Down The needle can be programmed to stop in the raised (up) or lowered (down) position. This function can also be used to bring the bobbin thread up.	✓	✓	–	–	–	✓	✓	–	–
Memory/Stitch Combination Stitch combinations including lettering can be created and saved.	✓	✓	–	–	–	✓	–	–	–

EMBROIDERY									
Maximum Embroidery Speed (Stitches per minute) High speeds allow the project to be completed more quickly.	850 spm	–	850 spm	–	–	–	–	–	–
Embroidery Area Large embroidery fields allow for larger embroidery projects.	260 x 160 mm (10.2 x 6.3")	–	260 x 160 mm (10.2 x 6.3")	–	–	–	–	–	–
Built-in Embroidery Designs	208	–	208	–	–	–	–	–	–
Embroidery Alphabets	7	–	7	–	–	–	–	–	–
On-screen Editing of Designs Easy and quick editing of embroidery designs right on the touchscreen.	✓	–	✓	–	–	–	–	–	–
Combine Designs Embroidery designs and/or lettering can be combined on the screen.	✓	–	✓	–	–	–	–	–	–

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Change Design Size Proportionally Proportional zoom in or out of designs within a range of +/- 20 % directly on the screen.	✓	-	✓	-	-	-	-	-	-
Move, Rotate, and Mirror To relocate designs by drag and drop or by using the Multi-function Knobs; rotation possible in 1-degree increments. Mirroring the embroidery designs for optimal placement on projects.	✓	-	✓	-	-	-	-	-	-
WordArt Create lettering with curved baselines. Adjust the letter spacing to achieve the best look.	✓	-	✓	-	-	-	-	-	-
Drag and Drop Simple drag and drop allows for easy positioning of embroidery designs.	✓	-	✓	-	-	-	-	-	-
Absolute Check Design Positioning Design placement tool – stitch by stitch. Check individual stitch locations for precise placement on the project from the Edit screen. The needle moves to that location in the hoop.	✓	-	✓	-	-	-	-	-	-
Check Design Size Function to check the position and the size of the embroidery design. The design is outlined rectangularly, which is displayed with the needle on the hooped embroidery project. The center of the design can also be displayed.	✓	-	✓	-	-	-	-	-	-
Adjust Stitch Density The stitch density for lettering can be altered in 20% increments between 60% and 140% to suit different fabrics.	✓	-	✓	-	-	-	-	-	-
Basting Before embroidering, a basting stitch can be added all around the embroidery design. This gives the fabric and embroidery stabilizer extra stability.	✓	-	✓	-	-	-	-	-	-
Stitch Design as Single/Multi-Color To embroider a design in one color without interruption or as a multicolored design.	✓	-	✓	-	-	-	-	-	-
Personal Memory for Saving Embroidery Designs Your own combinations, modified embroidery designs or external designs can be saved.	✓	-	✓	-	-	-	-	-	-
Multi-format Reading No need to convert. Reads VP3, VIP, PEC, HUS, DST, EXP, JEF, PES.	✓	-	✓	-	-	-	-	-	-
Embroidery Design Import/Export via USB Interface Enjoy rapid and direct connectivity for design transfer and updates.	✓	-	✓	-	-	-	-	-	-
Automatic Hoop Recognition The attached hoop is automatically detected by the embroidery module.	✓	-	✓	-	-	-	-	-	-
View Stitch-out Time, Thread Colors, Size, Stitches Design details at a glance.	✓	-	✓	-	-	-	-	-	-
Cut Connecting Stitches / Cut Threads before Color Change Connecting stitches between colors are cut off by default. This function can be deactivated for special threads such as metallic threads. The thread cut between colors can be activated or deactivated in the Setup Program.	✓	-	✓	-	-	-	-	-	-
Embroidery Sequence Control This function helps to reposition the needle position with stitch precision after a thread breakage using various stitch input options.	✓	-	✓	-	-	-	-	-	-
Position Recall The last embroidered stitch is always saved so that embroidery can be resumed at exactly the same point in the project in case of a power failure.	✓	-	✓	-	-	-	-	-	-

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CutWork Tool Compatible The optionally available BERNINA CutWork Tool opens up many more creative options. It can be used to cut out appliqué fabrics or multiple layers of fabric for patchwork or to embroider CutWork designs.	✓	-	✓	-	-	-	-	-	-

STANDARD ACCESSORIES									
Embroidery Module	✓	-	✓	-	-	-	-	-	-
Presser Feet Soles The appropriate sewing foot sole enables or facilitates certain sewing techniques. Further sewing foot soles are optionally available.	10	8	2	6	12	8	5	7	5
Zigzag Foot	✓	✓	-	✓	✓	✓	✓	✓	✓
Overlock Foot	✓	✓	-	✓	✓	✓	-	-	-
Buttonhole Foot with Slide	✓	✓	-	✓	✓	✓	✓	✓	✓
Zipper Foot	✓	✓	-	✓	✓	✓	✓	✓	✓
Invisible Zipper Foot	-	-	-	✓	✓	-	-	-	-
Blindstitch Foot	✓	✓	-	✓	✓	✓	-	✓	✓
Button-Sew-on Foot	✓	✓	-	-	✓	✓	✓	✓	✓
Edgestitch Foot	-	-	-	-	✓	-	-	-	-
Free-motion Embroidery Foot	✓	✓	-	-	-	-	-	-	-
Open-toe Foot	-	-	-	-	✓	✓	-	-	-
Hemmer Foot	-	-	-	-	✓	-	-	✓	-
Zigzag Foot with Non-Stick Sole	-	-	-	-	✓	-	-	-	-
Embroidery Foot (Sewing)	✓	✓	-	-	-	✓	✓	✓	-
Darning/Embroidery Foot	-	-	-	-	✓	-	-	-	-
Embroidery Foot	✓	-	✓	-	-	-	-	-	-
Hopper Embroidery Foot	✓	-	✓	-	-	-	-	-	-
Finger Guard The finger guard can be used with most presser feet. It supports safe sewing and reduces the risk of getting caught in the needle while sewing. Optionally available for the b05 CRAFTER.	-	-	-	-	✓	-	-	-	-
Straight/CutWork Stitch Plate The straight and CutWork stitch plate comes as a standard accessory with the b70 and b79.	✓	-	✓	-	-	-	-	-	-
Slide-on Table Attaching the freearm slide-on table increases your sewing area, making it significantly easier to sew large projects. Optionally available for the b05 CRAFTER and the b37.	✓	✓	-	-	✓	✓	-	-	-

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Knee Lever/Free Hand System (FHS)	✓	✓	-	-	-	-	-	-	-
Standard Embroidery Hoops Included	3	-	3	-	-	-	-	-	-
High Thread Tension Bobbin Case (HTTBC) This bobbin case with high thread tension has been specially developed for embroidering to optimize the embroidery quality. It is part of the standard accessories of the b70 and the b79.	✓	-	✓	-	-	-	-	-	-
Dust Cover The b38 comes with a hard cover, the other models with a soft cover.	✓	✓	✓	-	-	✓	✓	-	-
Accessory Box	✓	✓	-	✓	✓	✓	✓	✓	✓
Toolbox Software Modular software. The modules Lettering and Editing are included.	✓	-	✓	-	-	-	-	-	-

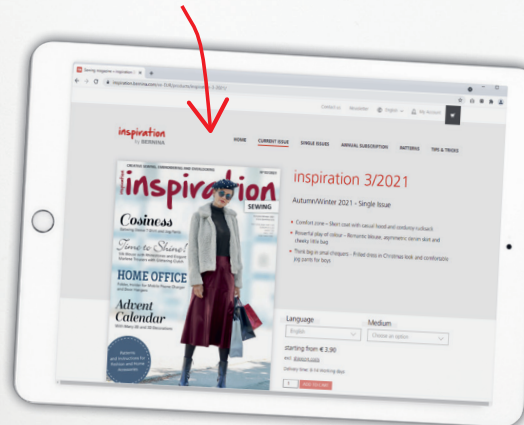


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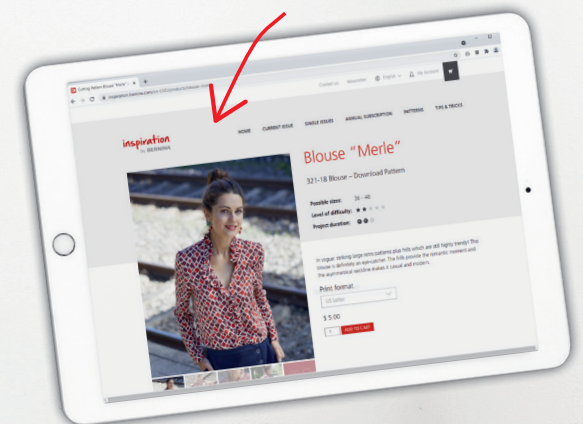
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