



# SINGER

## 2009 Athena



Feature	Benefit
Electronic Sewing Machine with Push-Button Stitch Selection	With just a simple push of a button you have selected the stitch and the optimum settings for length, width, balance, pressure and tension.
<b>Exclusive</b> <i>SwiftSmart™</i> Threading System	Digital technology makes threading a cinch! Just guide the thread directly from the spool to the needle area through a single groove and thread the needle by simply pressing the threading lever for truly one-touch threading!
<b>Exclusive</b> <i>Drop &amp; Sew™</i> Bobbin System	There's no longer any need to raise the bobbin thread before sewing. Just drop and sew!
3 <i>StayBright™</i> LED Lights	Not just one but three lamps illuminate the sewing surface for optimal viewing. The long-lasting bulbs (100,000 hours) stay cool regardless how long the machine is operated.
30 Built-In Stitches	A large variety of stitches for clothing construction, quilting, heirloom, crafts, home decorating and decorative sewing.
2 Fully Automatic 1-step Buttonholes	Buttonhole sewing is a one-step simple process, providing reliable results every time. Each side of the buttonhole is sewn in the same direction, creating beautifully balanced buttonholes.
Built-In Stretch Stitches	Specially designed stitches that add strength and flexibility to seams, especially useful when sewing on knitwear and super-stretch fabrics.
Hand-Look Quilt Stitch	This stitch is designed to look like hand sewing for topstitching or quilting. The Hand-Look Quilt Stitch is especially valuable to quilters, crafters and heirloom seamstresses.
Automatic Tension	This system ensures stable stitch quality, whatever type of fabric is being used.



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Automatic Presser Foot Pressure Control	The amount of pressure exerted on the fabric by the presser foot against the feed dogs is automatic. Sew from the lightest weight tricots to the heaviest denim, without making presser foot adjustments.
Extra-High Presser Foot Lifter	Offers more clearance, which is needed when placing multiple layers of bulky fabric under the presser foot.
Free Arm	Provides professional results and easy access to cuffs, collars, pant hems and other difficult-to-reach areas.
Adjustable Stitch Length	Automatic settings for length can be overridden to personalize length choice.
Adjustable Stitch Width	Automatic settings for width can be overridden to personalize width choice.
Center Zigzag Taper	When tapering with the zigzag stitch, the stitch tapers to the center, not the left or right. This provides a more attractive look when tapering into or out from a point.
Automatic Tacking Stitch Function	Tie-off decorative stitches with just a push of a button. With 4 tiny tacking stitches the start and end of the pattern is reinforced. This ensures quality stitching and prevents unraveling.
Automatic Tie-Off Function	This function reinforces the start and end of seams for stronger stitching.
Automatic Reverse	Push the conveniently located Automatic Reverse Button to sew in reverse and reinforce the stitch.
Sewing Speed	With a maximum sewing speed of 750 stitches-per-minute, projects can be sewn quickly.
Drop Feed	A conveniently located lever, easily and effortlessly moved, will lower the feed dogs for free-motion embroidery, monograms and for sewing buttons.



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DC Motor	Provides instant start up and stop with no casting, for accurate and precise stitch placement
Automatic Bobbin Winding Clutch	Needle bar automatically disengages when winding the bobbin, making bobbin winding safer
6-Segment Feeding System	This is a specially designed feed dog that ensures the fabric is picked up and supported from the front of the presser foot to the rear. This makes for much more accurate fabric feeding.
Box Feed	This is a feed dog motion that moves the feed dogs in a box motion, rather than the historic arc motion. Box motion assures perfect feeding throughout the entire feed process, as the feed dogs are always in perfect and equal contact with the fabric and presser foot.
Soft-Sided Dust Cover	Keeps the sewing machine free of dust and debris while not in use
Heavy Duty Metal Frame	The internal skeleton of the sewing machine. This rigid support holds all the mechanisms in perfect alignment for perfect, skip-free sewing.
Direct Drive	The needle bar is geared straight from the motor, rather than from a drive bar across the machine. This makes the machine more powerful and durable.
On Board Storage	Have easy access to accessories while sewing
Snap-On Presser Feet	Easily change presser feet without a screwdriver
Thread Cutter	Located on the machine for precise thread cutting, eliminating the extra step of cutting thread with scissors



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Electronic Foot Controller	Guarantees consistent sewing speed with no jump starts.
Accessories	<p>Standard Accessories: All-Purpose Foot, Buttonhole Foot with underplate, Zipper Foot, Blind Hem Foot, Satin Stitch Foot, Needles, Bobbins, Auxiliary Spool Pin, Spool Pin Felts, Seam Ripper / Lint Brush, Darning Plat, Screwdriver, Quick Start Guide DVD, Instruction Manual, Foot Pedal, Power Cord</p> <p>Value-Added Accessories: Darning &amp; Embroidery Foot, Gathering Foot, Button Sewing Foot, Invisible Zipper Foot, Pintuck Foot, Cording Foot, Rolled Hem Foot, Open Toe Foot, 1/4" Foot, Special Purpose Foot, Presser Feet Instructional DVD, Extension Table</p>
Portable and Cabinet Mountable	Machine has a built-in carry handle, making it easy to transport the machine. Machine can be mounted into a cabinet.
25-Year Limited Warranty	Limited 25-year warranty, including 5 years on electronic components and 1 year on adjustments.