

The Ultrafeed® LS-1 or LSZ-1: Which Do I Need?

Comparing the Similarities & Differences of the Ultrafeed® LS-1 & LSZ-1

The biggest difference between the two versions of the Ultrafeed is that one is straight stitch only and the other sews both straight and zigzag stitches. This chart compares the technical aspects and components of each machine to illustrate how they differ.

TECHNICAL COMPONENTS & PHYSICAL ASPECTS	ULTRAFEED LS-1	ULTRAFEED LSZ-1
Straight stitch walking presser foot	✓	
19mm extra-wide zigzag walking presser foot		✓
Up to 500 SPM (stitches per minute)	✓	✓
3/8" high foot lift	✓	✓
Straight stitch	✓	✓
Zigzag stitch		✓
Variable stitch length (up to 6mm)	✓	✓
Stitch width adjustment (up to 5mm)		✓
Stitch width lever		✓
34mm needle bar stroke	✓	✓
Needle positioning lever (left, right, center)		✓
Patented Posi-Pin® Clutching System	✓	✓
Power Plus™ Balance Wheel	✓	✓
EZ Set™ Stitch Length Plate	✓	✓
Spring-loaded stitch length lever	✓	✓
6,600 rpm motor at 1.5 amps	✓	✓
Electronic variable speed foot control	✓	✓
7" x 4.5" underarm space	✓	✓
Needle plate markings for seam allowances	✓	✓
All-metal casting and internal parts	✓	✓
Patented scarfed gib hook	✓	✓
1/10 horsepower AC motor	✓	✓
110v or 220-240v versions with European plug	✓	✓
Welting tunnel in foot for piping	✓	✓
Cording Foot Set (for larger welting)*		✓
Double Cording Foot*	✓	
Compatible with Monster II Balance Wheel	✓	✓
Five-year limited warranty	✓	✓

*The Cording Foot Set and the Double Cording Foot Set are included in the LSZ-1 and LS-1 PREMIUM packages, respectively. In the PLUS and BASIC packages they are optional add-ons.

What Kind of Sewing Do You Do?

The type of sewing you do and the projects you work on will help determine whether you need the Ultrafeed LS-1 straight stitch only machine or the straight stitch and zigzag capable Ultrafeed LSZ-1. This chart lists some common sewing projects and stitch techniques with the recommended stitch type for each.

RECOMMENDED STITCH BY PROJECT OR TECHNIQUE	STRAIGHT STITCH	ZIGZAG STITCH
Sail repair and sailmaking*		✓
Canvaswork	✓	
Bags (duffle, sail, carry-all, tote, etc.)	✓	
Upholstery	✓	
Awnings	✓	
Boat covers (winch, sail, fender, hatch, dinghy, etc.)	✓	
Dodgers and biminis	✓	
Bar tacking		✓
Buttonholes		✓
Stretchy fabrics (neoprene, knits)		✓
Binding raw fabric edges (in place of a hotknife)**		✓
Clothes and accessories (jacket, wallet, purse, etc.)	✓	✓
Trampolines	✓	
Scallops binding on awnings		✓
Drapery and window treatments	✓	
Pillows and cushions	✓	
Leatherwork	✓	
RV and automotive upholstery	✓	

*Sails should be sewn with zigzag stitches. The zigzag stitch helps distribute stress more evenly on the seams of the sailcloth. It also offers more flexibility and stretch than a straight stitch, which is crucial for sail construction.

**If you don't own a hotknife, you can use zigzag stitches to seal raw fabric edges to prevent them from fraying. You can either sew the raw edges separately or sew them together, as on the inside of a tote bag. This technique involves sewing halfway off the fabric edge using a wide stitch approximately 2mm in length.



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