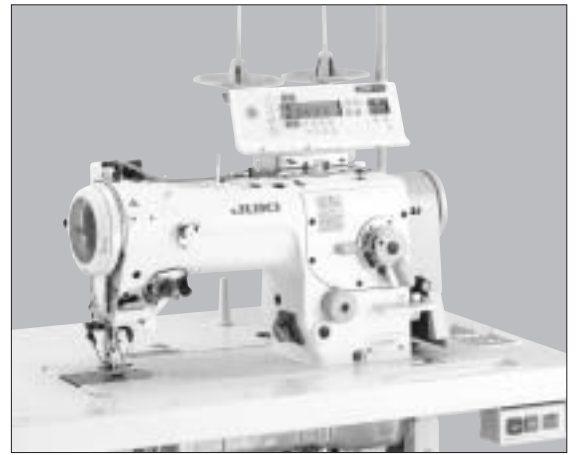


High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine

LZ-2280N SERIES

- The hook driving shaft offset mechanism assures trouble-free and consistent zigzag stitching.
- The market-proven hook and thread take-up lever enables sewing with upgraded consistency with a lower tension applied to the thread.
- Greater durability is secured by preventing the hook from heating up when the machine is running at high speeds.
- The highly reliable machine head is structured to reduce operating noise and prevent oil leakage.
- The machine ensures easy adjustment of zigzag width and feed pitch.
- The adjustable range of the feed mechanisms has been widened, thereby upgrading the machine's responsiveness to materials.



LZ-2284N-7-WB/CP-160B

LZ-2280N (standard zigzag)

- The standard zigzag stitching machine creates softly finished seams. The needle rocking mechanism is provided with a triangular cam which helps produce beautiful seams with consistency.

LZ-2282N (standard zigzag/with lower knife)
LZ-2282N-7 (standard zigzag/with lower knife and automatic thread trimmer)

- The machine incorporates a built-in lower knife that trims only the lower material. This allows the machine to simultaneously attach lace to the body of the foundation and trim only the body during processes to attach lace to the bottoms or tops of slips or to the joint seam lines of shorts.

LZ-2286N (3-step zigzag)

- The maximum needle throw is 10mm. The needle rocking mechanism means a higher degree of accuracy, thereby leading to a very high performance.

LZ-2288N (with changeable pattern cams)

- The machine is able to perform eleven different kinds of zigzag stitching only by a quick procedure to replace the cams.

LZ-2285N (fagoting)

- The pressure of the fagoting holder can be separately adjusted by the left- and right-hand sections in order to prevent an uneven material feed.

LZ-2281N (standard wider zigzag)

- Two kinds of gauges can be selected in accordance with the application of the machine: an A-type gauge with a zigzag width of 5mm, and a B-type gauge with a zigzag width of 8mm. The needle rocking cam is provided with a triangular cam which helps produce beautiful seams with consistency.

LZ-2284N (with standard/3-step zigzag stitching pattern changeover function)
LZ-2284N-7 (with standard/3-step zigzag stitching pattern changeover function and automatic thread trimmer)




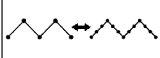


- The operator can easily switch the needle-throwing pattern between the standard and 3-step zigzag stitching patterns using the lever located in the free space under the arm. (Time required: Approx. 15 sec)
 When changing the sewing product or design, there's no need to adjust the sewing machine head or machine layout.

High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine with anti-material-slip capability

LZ-2280NU (standard zigzag)
LZ-2284NU (with standard/3-step zigzag stitching pattern changeover function)
LZ-2284NU-7 (with standard/3-step zigzag stitching pattern changeover function and automatic thread trimmer)




- With its newly developed feed mechanism, the machine prevents "uneven feed of the upper and lower cloths" when sewing girdles and body suits made of slippery, elastic materials.
- Drop-feed sewing machines have been widely said to feed in the lower cloth more quickly than the upper cloth. However, this machine prevents uneven feed between the upper and lower cloths in spite of its a drop-feed mechanism. In appearances, the gauge parts are identical to those of a conventional zigzag stitching machine, and operability is in no way affected by the newly developed feed mechanism.

SPECIFICATIONS

Model name	Without automatic thread trimmer	LZ-2280N	LZ-2281N	LZ-2282N	LZ-2284N	LZ-2286N	LZ-2288N	LZ-2285N	
	With automatic thread trimmer			LZ-2282N-7	LZ-2284N-7				
Stitch system	Standard zigzag	Standard wider zigzag	Standard zigzag (with lower knife)	Standard/ 3-step zigzag	3-step zigzag	With changeable pattern cams	Fagoting		
Stitch pattern						Refer to the specifications for pattern cam			
Max. sewing speed	5,500rpm	5,000rpm						4,000rpm	
Max. zigzag width	5.0mm	5.0mm (A type) 8.0mm (B type)	4.5mm	5.0mm (standard) 10.0mm (3-step)	10.0mm	8.0mm (standard: 6.0mm)	8.0mm		
Max. feeding amount	2.5mm	2.5mm (A type) 5.0mm (B type)	2.5mm	2.5mm (standard) 2.0mm (3-step)	2.0mm	2.5mm	2.2mm		
Min. cutting allowance of lower knife			3.0mm						
Lower knife driving method			AC motor						
Lift of the presser foot	By hand: 5.5mm, By knee: 10.0mm		By hand: 4.0mm By knee: 8.5mm		By hand: 5.5mm, By knee: 10.0mm			By hand: 5.5mm By knee: 8.0mm	
Hook	DP hook (with titanium-treated inner hook)								
Thread take-up	Rotary type								
Lubrication	Fully automatic								
Lubricating oil	JUKI New Defrix Oil No.1 (equivalent to ISO VG7)								
Needle (at the time of delivery)	SCHMETZ 438SUK (Nm75), ORGAN DP × 5 (#10)							SCHMETZ 438SUK (#80)	
Needle position changing mechanism	Provided as standard								
Reverse feed stitching mechanism	Provided as standard								
Needle throw direction change-over mechanism						Provided as standard			
Needle throw pattern cam	Triangular cam				Grooved cam				
Number of pattern cams specified						11 *			

* LZ-2288N: Selectable from five different cams; Standard zigzag stitching cam, 3-step zigzag stitching cam, 2-step zigzag stitching cam, standard scalloping cam, crescent scalloping cam. Other cams are optionally available.

● Anti-material-slip type

Model name	Without automatic thread trimmer	LZ-2280NU	LZ-2284NU
	With automatic thread trimmer		LZ-2284NU-7
Stitch system			
Max. sewing speed	4,500rpm		

WHEN YOU PLACE ORDERS

● LZ-2280N series (without automatic thread trimmer)

LZ228

Type	Code
Standard zigzag	0N
Standard zigzag/with anti-material-slip capability	0NU
Standard wider zigzag (with a gauge for 5mm zigzag width)	1NA
Standard wider zigzag (with a gauge for 8mm zigzag width)	1NB
Standard zigzag/with lower knife	2N
With standard/3-step zigzag stitching pattern changeover function	4N
With standard/3-step zigzag stitching pattern changeover function and anti-material-slip capability	4NU
With standard/3-step zigzag stitching pattern changeover function and with tape attaching foot capability	4NT
3-step zigzag	6N
3-step zigzag/with tape attaching foot	6NT
With changeable pattern cams/Standard zigzag	8NA
With changeable pattern cams/3-step zigzag	8NB
With changeable pattern cams/2-step zigzag	8NC
With changeable pattern cams/Standard scalloping	8ND
With changeable pattern cams/Crescent scalloping	8NE
Fagoting	5N

Automatic reverse feed function	Code
Provided	0B
Not provided	

● LZ-2284NT, -2286NT and -2285N are not classified by the automatic reverse feed function.

● LZ-2280N-7 series (with automatic thread trimmer)

LZ228 7

Type	Code
Standard zigzag (anti-material-slip type)	2N
Standard/3-step zigzag	4N
Standard/3-step zigzag (anti-material-slip type)	4NU

Wiper and automatic reverse feed function		
Wiper	Automatic reverse feed function	Code
Not provided	Not provided	00
	Provided	0B
Provided	Not provided	W0
	Provided	WB

Auto-lifter	Code
Provided (AK83)	AK
Not provided	

● PSC box

SC910 S

PSC box					Code
For JUS (LA)*	Single-phase	100 ~ 120V	PFL		S
For JUS*, General Export	3-phase	200 ~ 240V	PFL		D
For General Export	Single-phase	200 ~ 240V	PFL		K
For EU (CE)	Single-phase	200 ~ 240V	PFL		N
For China	Single-phase	200 ~ 240V	PFL		U

Control box	Code
Standard	S

*JUS: North America and Central and South America.

● Motor for SC

M91S

Pulley belt	Code
Standard	S





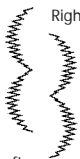

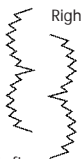
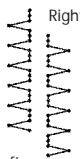
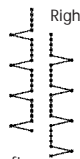
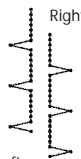
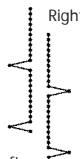
● Operation panel

Operation panel	Code
IP-100B	IP100B
CP-160B	CP160B

OPTIONS

Model	Part No.	Description	Feature
	225-61559	Automatic reverse feed kit	This device allows a machine without thread trimmer to perform automatic reverse feed function.
	D1501-583-H00	Presser bar	The aforementioned parts are used when a lockstitching type presser foot is installed on the machine.
	D1502-583-H00	Presser connecting rod	
	SS-7091110-SP	Screw	
	225-26669	Non-lubricated hook (plastic hook with special race surface)	The hook effectively prevents oil stains. *When the hook is used, setscrews are required for the front of the hook-driving shaft (Part No.: 110-79506).
	225-26560	Hard-point hook	The blade point of this hook prevents abrasion.
	235-23152	Hook	The hook with a non-rotational bobbin eliminates sewing troubles resulting from bobbin idling. It provides a uniform bobbin thread tension at all times, thereby guaranteeing a consistent stitch formation.
	235-22550	Bobbin case asm.	
	235-23004	Bobbin	
V059	MAV-059000AA	Tension-free feeder (tape feeder)	The amount of tape to be fed can be adjusted in accordance with the sewing speed of the machine. It is adaptable to processes for attaching reinforcement tape, attaching elastic tape or lace to foundation.
S189A	MAS-189000AA	Elastic tape tensing device	Applies tension to desired portions of the tape fed from tension-free tape puller. The device is started/stopped by operating the knee switch. This increases operator productivity without interrupting the sewing work.
S189B	MAS-189000AB		
RF-1		Pedal-operated reverse feed stitching device	The device enables the operator to perform reverse feed stitching using the pedal without using the right hand. (excluding the LZ-2285N)

LZ-2288N SPECIFICATIONS OF PATTERN CAM

Name of pattern	Standard zigzag	3-step zigzag	2-step zigzag	Standard scallop	Crescent scallop	Equal-width scallop	Equal-width scallop	Blind stitch	Blind stitch	Blind stitch	Blind stitch
Part No.	225-68851	225-68950	225-69057	225-69156	225-69255	225-69354	225-69453	225-69552	225-69651	225-69750	225-69859
Part name	Pattern cam A	Pattern cam B	Pattern cam C	Pattern cam D	Pattern cam E	Pattern cam F	Pattern cam G	Pattern cam H	Pattern cam J	Pattern cam K	Pattern cam L
Max. zigzag width (mm)	* 6.0	8.0	8.0	8.0	8.0	8.0	8.0	6.0	6.0	6.0	6.0
Max. pattern width (mm)				2.4	3.6	3.4	2.4				
Number of stitches	2	6	4	24	24	24	12	4	6	8	12
Stitch pattern											

* For standard zigzag stitching and blind stitching, set the zigzag width to 5mm or less when the machine runs at a sewing speed of 4,200rpm or more.

LIST OF THE MAJOR GAUGES

Max. zigzag width/ Max. feed pitch	Throat plate	Feed dog	Presser foot (with finger guard)	Remarks
	<p>100-41010</p>	<p>100-47017</p> <p>1.6 Max. feed amount: 2mm</p>	<p>With a recess on the reverse side of the presser foot 225-80369</p>	
	<p>100-41101</p>	<p>225-80104</p> <p>1.6 Max. feed amount: 2mm</p>	<p>225-80260 Light-in-weight type</p>	
	<p>225-80005</p>	<p>225-80500</p> <p>1.15 Max. feed amount: 2mm</p>	<p>Light-in-weight type with the front fulcrum 225-80765</p>	<ul style="list-style-type: none"> • Suited to sewing tasks that require frequent changes in the needle throw position.
	<p>225-82100</p>	<p>225-82209</p> <p>1.6 Max. feed amount: 2mm</p>		
	<p>225-82704</p>	<p>225-82803</p> <p>1.5 Max. feed amount: 2mm</p>	<p>235-03154 Light-in-weight type</p>	
	<p>225-82407</p>	<p>225-81508</p> <p>1.5 Max. feed amount: 2mm</p>	<p>235-03204 Front fulcrum type</p>	
	<p>225-82506</p>	<p>225-48804</p> <p>1.5 Max. feed amount: 1.3mm</p>	<p>225-80864</p>	
	<p>225-82506</p>	<p>225-40009</p> <p>1.7 Max. feed amount: 5mm</p>	<p>225-84965 Light-in-weight type</p>	
	<p>225-82506</p>	<p>225-40009</p> <p>1.7 Max. feed amount: 5mm</p>	<p>MAB-109000B0</p> <p>Max. 15.6 20.6 10.4 1.8</p> <p>Presser foot with tape guide</p>	<ul style="list-style-type: none"> • Light-in-weight presser foot prevents jumping at the time of high-speed sewing.
	<p>225-45008</p>	<p>225-45107</p> <p>1.7 Max. feed amount: 2.5mm</p>	<p>225-45362 Light-in-weight type</p>	
	<p>225-45511</p>	<p>225-45610</p> <p>1.15 Max. feed amount: 1.6mm</p>	<p>Light-in-weight type with the front fulcrum 225-45867</p>	
	<p>225-45008</p>	<p>225-45107</p> <p>1.7 Max. feed amount: 2.5mm</p>	<p>225-45362 Light-in-weight type</p>	
	<p>225-45511</p>	<p>225-45610</p> <p>1.15 Max. feed amount: 1.6mm</p>	<p>Light-in-weight type with the front fulcrum 225-45867</p>	

Max. zigzag width/ Max. feed pitch	Throat plate	Feed dog	Presser foot (with finger guard)	Remarks	
	225-48705 	225-48804 Max. feed amount: 1.3mm	225-48960 Light-in-weight type 		
	225-48507 	225-48408 Max. feed amount: 2.5mm	225-47962 Light-in-weight type 	<ul style="list-style-type: none"> • For standard zigzag stitching • The 5mm-feed is suited to tape-attaching process where the elastic tape is sewn with stretched. 	
	225-48010 	225-48119 Max. feed amount: 2.5mm			225-41601 Max. feed amount: 5mm
	225-49000 	225-49109 Max. feed amount: 2.5mm	225-41809 Max. feed amount: 5mm		225-48663 Light-in-weight type 225-48671 (finger guard: small)
	225-49208 	225-49307 Max. feed amount: 2.5mm	225-41700 Max. feed amount: 5mm		
	225-46519 	225-46717 1.15	225-46618 1.5	225-46964 Light-in-weight type 	
	225-46212 	225-46410 1.15	225-46311 1.5	Light-in-weight type with the front fulcrum 225-47269 	
	MAD-04060000 	MAD-04070000 1.5	MAD-040500A0 	<ul style="list-style-type: none"> • For attaching tape to brassieres, etc. 	
	225-49604 	225-49703 1.15	225-49869 Light-in-weight type 		

• In addition to the above-listed ones, many different gauges and attachments for zigzag stitching are available. Please contact us for details.