

**JUKI®**

# LZ-2280N Series

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



# LZ-2280N Series

The sewing machine produces soft seams with consistency with a low tension applied to the thread even when it runs at a high speed.

# LZ-2280N SERIES

The sewing machine produces soft seams with consistency with a low tension applied to the thread even when it runs at a high speed.

A market-proven titanium-finished hook and rotary thread take-up lever have been adopted. This allows the machine to produce high-quality and consistent seams when an extra low tension is applied to the thread. The combination of the hook and the thread take-up lever prevents stitch skipping and thread breakage under the high-speed sewing and provides responsiveness to thread changing. A broad range of thread types such as synthetic thread, spun thread and cotton thread can be used.

**The highly reliable machine head is structured to reduce operating noise and prevent oil leakage**

The shape of the machine frame is designed to reduce vibration and noise during sewing. By applying three safeguards in the machine's design, oil leakage is completely eliminated. The shape of the machine arm is designed to prevent oil from gathering, the direct oil-circulation method is adopted to circulate the oil directly from the oil sight window to the oil pan, and a high-quality packing is incorporated. In addition, a bobbin thread winder is built in at a position that permits easy bobbin winding.

**The machine comes with a micro-lift mechanism**

Thanks to the micro-lift mechanism, the rise of the presser foot can be finely adjusted using a screwdriver. This will prove effective when you need to perform sewing operations with the presser foot kept in a slightly raised position such as when reinforcing the material or attaching tapes.

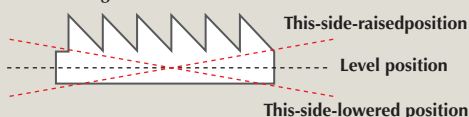


**The adjustable range of the feed mechanisms has been widened, thereby upgrading the machine's responsiveness to materials**

The feed mechanism has been improved by widening the adjustable range of the height and inclination of the feed dog. Inclination of the feed dog can be widely adjusted to a this-side-raised position, level position, or this-side-lowered position. This facilitates sewing of overlapped sections of material that have to be securely held between the presser foot and the feed dog during sewing.

## Inclination of the feed dog

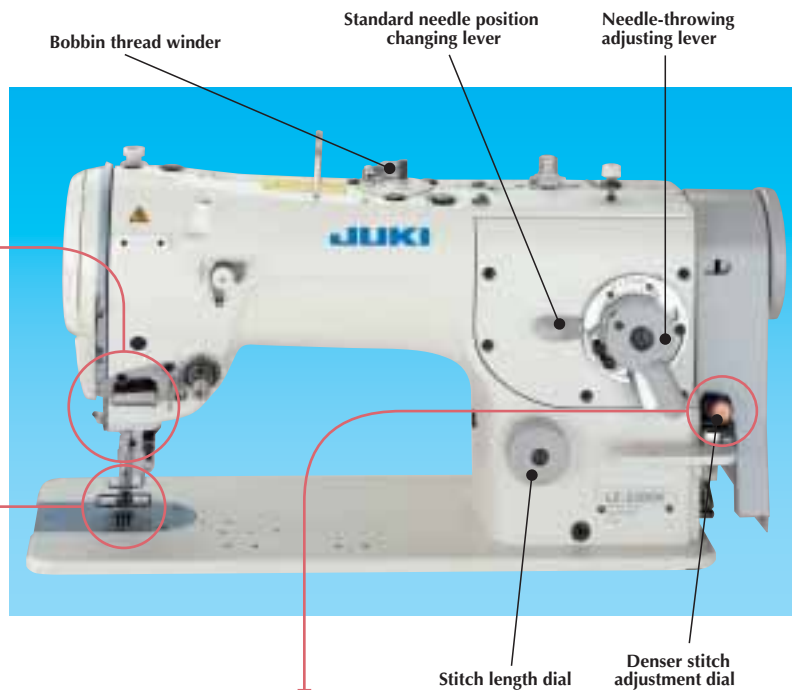
← Sewing direction



LZ-2280N

**The machine ensures easy adjustment of zigzag width and feed pitch**

A special dial with a built-in lever for adjusting zigzag width is adopted for easier handling. The machine is also provided with a lever for changing the needle-throwing position that makes it convenient to set the sewing position from the material edge. This enables the operator to minutely adjust the needle-throwing position without re-adjusting the positions of other components such as the guides and binders. In addition, the machine is provided with a denser stitching mechanism for fastening stitches.



**Feed pitch for denser stitching is adjustable as desired.**

The feed pitch for denser stitching is adjustable as desired to enable fine adjustments. The feed pitch only for denser stitching can be made smaller solely by means of a knob. The feed pitch can be partially made smaller during sewing.

## Highly reliable models in the LZ-2280N series that respond to many different kinds of sewing specifications.

### Standard zigzag stitching machine LZ-2280N

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.



### Standard wider zigzag stitching machine LZ-2281N

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



### Fagoting machine LZ-2285N

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



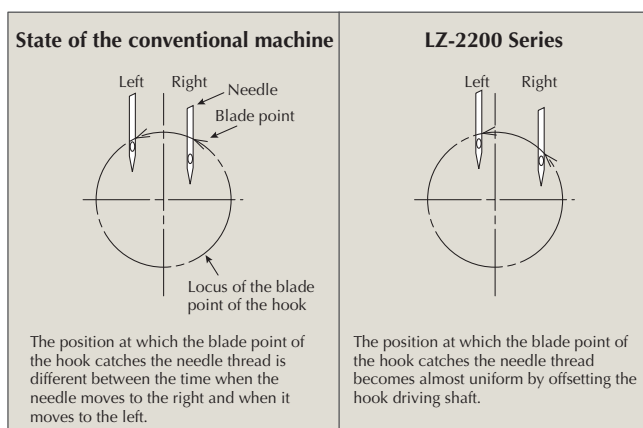
### 3-step zigzag stitching machine LZ-2286N

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



### The hook driving shaft offset mechanism assures trouble-free and consistent zigzag stitching

The machine is equipped with a hook-driving shaft-offset mechanism which places the hook-rotating shaft off-center from the center of zigzag stroke of the needle. This mechanism allows the blade point of the hook to catch the needle thread every time regardless of the needle throwing direction. As a result, the machine is immune to sewing troubles such as stitch skipping and thread breakage, annoyances likely to occur with the conventional machine, especially when the needle throws to the right.



### Greater durability is secured by preventing the hook from heating up when the machine is running at high speeds

The inner hook is finished with titanium to keep it from becoming hot. The machine requires only a very small quantity of oil. This prevents oil stains on the material and the improves durability of the hook. In addition, the hook configuration is carefully designed to avoid needle breakage.





*Highly reliable sewing machine with an automatic thread trimmer is included in two different model lineups. With this sewing machine, productivity will increase dramatically.*

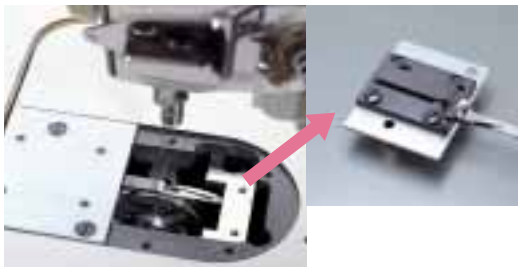
**LZ-2282N-7** with lower knife

**LZ-2284N-7** with standard/3-step zigzag stitching pattern changeover function

**High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine with automatic thread trimmer**

**Simplified thread trimming mechanism cuts the thread without fail**

The thread trimming mechanism which is equipped with a knife slide mechanism. This means that the thread trimmer cuts the thread regardless of the needle entry both when the needle throws to the right and left. The thread trimmer is driven by the recognized “solenoid and cam system” that is used for JUKI lockstitch machines. This means that the thread trimmer is highly reliable. Since the knife unit is installed on the slide plate, it can be removed/installed with ease. So, easy maintenance is ensured.



**The machine is equipped, as standard, with a needle thread feeding device**

The machine comes with a needle thread feeding device which feeds the needle thread only by the required amount at the start of sewing. Thanks to the device, not only stitch skipping and slip-off of the needle thread are prevented, but also the length of thread remaining at the needle eyelet after thread trimming can be shortened.



**Bobbin thread is retained with a low tension, thereby preventing stitching troubles at the start of sewing**

The bobbin thread is retained with a low tension after thread trimming, which enables the bobbin thread to smoothly come out of the hook. As a result, tensing-up of thread and stitch gathering are prevented.



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*The sewing machine provided with an anti-material-slip function, which promises more beautifully finished seams, is included in three different model lineups.*

**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

**High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine with Anti-material-slip type**

**Uneven feed of the upper and lower cloths is totally eliminated**

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.

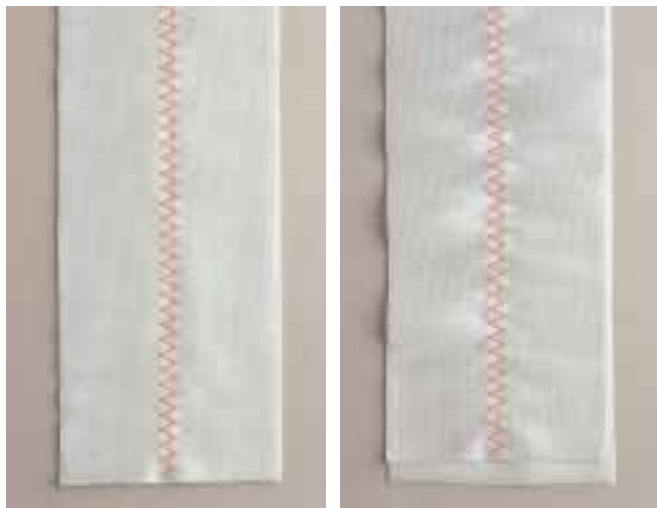
**Simplified mechanism for easy operation**

Drop-feed sewing machines are widely said to feed in the lower cloth more quickly than the upper cloth. However, this machine prevents uneven feed of the upper and lower cloths in spite of its a drop-feed mechanism. In appearance, 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.

**The machine flexibly responds to many different materials**

The machine only requires simple adjustments when changing the material\* to power net and tricot, never failing to produce beautiful seam quality free from uneven feed of the upper and lower cloths.

\* For some types of materials, the machine will not effectively prevent uneven feed of the upper and lower cloths.



LZ-2280NU series

Conventional machine

## 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.
—	225-26578	Hook with a hard blade point	Prevents the blade point of the hook from wearing out
RF-1	GRF-01000B0	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)
—	229-07406	Presser spring	This is the spring which strongly holds down the material when sewing a heavy weight material.
—	B3129012A00	Tension spring	Tightly tensed seams can be produced by increasing the tension applied to the needle thread.
M097	MAM-097000A0	Fagotting feller asm. (down-rolled type)	This is the exclusive fagot stitch folder for the LZ-2285N, which is applicable to the sewing of lingerie, foundation garments and baby wear. (The fagot stitch folder asm. (up-rolled type): The MAM-09700BA0 has been factory-installed on the machine prior to delivery.)

### ●Hook with non-rotational bobbin

The hook with 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.

235-23152 Hook  
235-22550 Bobbin case (asm.)  
235-23004 Bobbin



Application	Mainly for the standard zigzag stitch: Effectively prevents the material swelling at the sewn part, as well as irregular stitches when sewing lace to slips, camisoles and shorts.
Precaution	The quantity of thread to be wound around this bobbin is approximately 60% of that wound around the conventional bobbin. Therefore, this bobbin is not recommended for pattern stitching such as three-point zigzag stitching and scallop stitching, or intape-attaching processes, even if the stitch system is the standard zigzag stitch.
Applicable thread	Thread specifically developed for sewing foundation garments and lingerie such as Resilon, Poelon, Satin, and Berlon (#50, #60)
Not-applicable thread	Thread which has naps, decorative yarn of multi-fiber thread such as woolly thread, Berlon D420 and D300, and spun thread

\*If you want to use a non-rotational bobbin, consult your distributor beforehand.

### ●Oilless bobbin case / Hook (special race surface plastic hook) ●Hook gib

The oilless bobbin case and hook effectively prevent oil stains.

\*When using the oilless bobbin and hook, a hook driving shaft front setscrew (part number: 110-79506) is necessary.

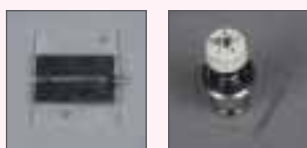


235-57259 Hook compl. D  
400-03609 Bobbin case D3 (compl.)  
400-03610 Bobbin case D3 (asm.)



400-16408 Hook gib VS

### ●Parts for sewing with thick thread (recommended needle: DP × 5 #21, 134SUK Nm130)



225-56054 Knife unit  
D1440-583-H00 Needle thread guide  
400-17095 Thread tension disk (asm.)  
225-80369 Presser foot (asm.)



### ●Presser foot connecting components

The aforementioned parts are used when a lockstitching type presser foot is installed on the machine.

Select a parts set of either the presser-bar changing type or the presser bar joining type, according to the type of presser foot of your machine.



●Presser foot connecting components  
(replaceable presser bar)  
D1501-583-H00 Presser bar  
D1502-583-H00 Presser connecting rod  
SS-7091110-TP Screw



●Presser foot connecting components  
B1551-586-000 Presser foot connecting foot  
SS-7090910-TP Screw

# LIST OF THE MAJOR GAUGES

Max. zigzag width / Max. feed pitch	Throat plate	Feed dog	Presser foot (with finger guard)	Remarks
	<b>10041010</b> 	<b>1004T017</b>  Max. feed amount: 2mm	With a recess on the reverse side of the presser foot <b>22580359</b> 	
	<b>10041101</b> 	<b>22580104</b>  Max. feed amount: 2mm	<b>10045052</b> (finger guard: small) <b>22580260</b> Light-in-weight type 	
	<b>22580305</b> 	<b>22581500</b>  Max. feed amount: 2mm	Light-in-weight type with the front fulcrum <b>22580785</b> 	<ul style="list-style-type: none"> <li>• Suited to sewing tasks that require frequent changes in the needle throw position.</li> <li>• Light-in-weight presser foot prevents jumping at the time of high-speed sewing.</li> </ul>
	<b>22582100</b> 	<b>22582209</b>  Max. feed amount: 2mm		
	<b>22582704</b> 	<b>22582803</b>  Max. feed amount: 2mm	<b>23503152</b> (finger guard: small) <b>23503253</b> Front fulcrum type 	
	<b>22582407</b> 	<b>22581508</b>  Max. feed amount: 2mm	<b>22580864</b> 	
	<b>22582508</b> 	<b>22548804</b>  Max. feed amount: 1.3mm	<b>10055051</b> (finger guard: small) <b>22584365</b> Light-in-weight type 	
		<b>22540073</b>  Max. feed amount: 5mm	<b>MAB10900080</b> Presser foot with tape guide  Max. 15.6	
	<b>22545008</b> 	<b>22545137</b>  Max. feed amount: 2.5mm	Light-in-weight type <b>22545382</b> 	
	<b>22545511</b> 	<b>22545610</b>  Max. feed amount: 1.6mm	Light-in-weight type with the front fulcrum <b>22545867</b> 	

Max. zigzag width / Max. feed pitch	Throat plate	Feed dog	Presser foot (with finger guard)	Remarks
	22540705 	22540804  Max. feed amount: 1.3mm	22540850 Light-in-weight type 	
	22540507 	22540400  Max. feed amount: 2.5mm	22547962 Light-in-weight type 	<ul style="list-style-type: none"> <li>• For standard zigzag stitching</li> <li>• The 5mm-feed is suited to tape-attaching process where the elastic tape is sewn with stretched.</li> </ul>
	22540010 	22548119  Max. feed amount: 2.5mm	22541601  Max. feed amount: 5mm	
	22549000 	22549139  Max. feed amount: 2.5mm	22541809  Max. feed amount: 5mm	
	22549208 	22548822  Max. feed amount: 2.5mm	22541730  Max. feed amount: 5mm	
	22545519 	22545717 	22546518 	<ul style="list-style-type: none"> <li>• For attaching tape to brassieres, etc.</li> </ul>
	22546212 	22546413 	22546311  Light-in-weight type with the front fulcrum 22547259 	
	22549304 	22549702  Max. feed amount: 2.5mm	22549859 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.



## WHEN YOU PLACE ORDERS

### ■ LZ-2280N series (without automatic thread trimmer)

#### Machine head

**LZ228**

Type	Code
Standard zigzag	0N
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
Standard/3-step zigzag	4N
Standard/3-step zigzag (with anti-material-slip type)	4NU
With standard/3-step zigzag (with tape attaching foot)	4NT
Fagoting	5N
3-step zigzag	6N
3-step zigzag (with tape attaching foot)	6NT

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)

#### Machine head

**LZ228**    **7WB**

Type	Code
Standard zigzag (with lower knife)	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
Provided	Provided	WB

Auto-lifter	Code
Provided (AK83)	AK
Not provided	

#### Control box

**SC920C**

Power supply	Code
single-phase 100~120V	S
3-phase 200~240V	P
single-phase 200~240V(for General Export)	K
single-phase 200~240V(for CE)	N
single-phase 200~240V(for China)	U




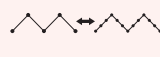


#### Motor

**M92**

#### Operation panel


**CP18A**  
**CP180A**

## SPECIFICATIONS

Model name	Without automatic thread trimmer	LZ-2280N	LZ-2281N	LZ-2282N	LZ-2284N	LZ-2286N	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	Fagoting
Stitch pattern							
Max. sewing speed		5,500sti/min*	5,000sti/min*				4,000sti/min*
Max. zigzag width		5mm	5mm (A type) 8mm (B type)	4.5mm	5mm (standard) 10mm (3-step)	10mm	8mm
Max. feeding amount		2.5mm	2.5mm (A type) 5mm (B type)	2.5mm	2.5mm (standard) 2mm (3-step)	2mm	2.2mm
Min. cutting allowance of lower knife		—	—	3mm	—	—	—
Lower knife driving method		—	—	AC motor	—	—	—
Lift of the presser foot		By hand: 5.5mm, By knee: 10mm		By hand: 4mm By knee: 8.5mm	By hand: 5.5mm, By knee: 10mm		By hand: 5.5mm By knee: 8mm
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)	438 (Nm70), DPX5 (#10)						438 (Nm80)
Needle position changing mechanism	Provided as standard						—
Reverse feed stitching mechanism	Provided as standard						—
Needle throw pattern cam	Triangular cam				Grooved cam		

\* "sti/min" stands for "Stitches per Minute."

### ● Anti-material-slip type

Model name	Without automatic thread trimmer	LZ-2284NU
	With automatic thread trimmer	LZ-2284NU-7
Stitch system		Standard/ 3-step zigzag
Stitch pattern		
Max. sewing speed		4,500sti/min*

\* "sti/min" stands for "Stitches per Minute."

● To order, please contact your nearest JUKI distributor.



**JUKI CORPORATION HEAD OFFICE**  
An environmental management system to promote and conduct the following:  
(1) Eco-friendly development of products and technologies  
(2) Green procurement and green purchasing  
(3) Energy conservation (reduction in carbon-dioxide emissions)  
(4) Resource saving (reduction of papers purchased, etc.)  
(5) Reduction and recycling of waste  
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

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\* Specifications and appearance are subject to change without prior notice for improvement.  
\* Read the instruction manual before putting the machine into service to ensure safety.  
\* This catalogue prints with environment-friendly soy ink on recycle paper.