

SPECIFICATIONS

| Model name | Provided with automatic thread trimmer | LZ-2290CF-7 | LZ-2290CS-7 |
|--|--|---|--|
| Model name | Not provided with thread trimmer | — | LZ-2290CS |
| Specification | | Full digital type | Digital type |
| Max. sewing speed*2 | | 5,000 sti/min*1 (4,000 sti/min at the time of shipment*1) | |
| Max. zigzag width | | Standard 8 mm (up to 10 mm by changing the gauge) | |
| Needle throwing mechanism | | Motor control | |
| Feed mechanism (horizontal direction) | | Motor control | |
| Feed mechanism (vertical direction) | | Motor control | Mechanical type |
| Max. feed amount | | 5.0mm (2.5 mm at the time of shipment) | |
| Thread take-up lever | | Rotary thread take-up lever | |
| Thread tension control mechanism | | Rotary active tension | Rotary type (spring-adjustment type) |
| Multi-layered portion detection device | | Provided | Not provided |
| Presser system | | Spring type (AK156 active presser type is digital type) | Spring type |
| Amount of lift of presser foot | | Hand lifter: 5.5mm / Knee-lifter: 10mm / Auto-lifter: 10mm | |
| Auto-lifter | | Selected on the machine head (motor control) | |
| Hook | | DP hook (titanium-coated inner hook) | |
| Needle (at the time of shipment) | | ORGAN DP x 5 (#10), SCHMETZ 438 (Nm 75) | |
| Operation panel | | Color touch panel (provided with the NFC function) | |
| Number of standard sewing patterns | | 11 types, 20 patterns | |
| Memory capacity for custom patterns | | 200 patterns | |
| Max. number of stitches | | 500 stitches/pattern | |
| Continuous sewing pattern | | Max. 20 patterns, 20 steps; 2,000 stitches/step | |
| Main body input function | | Provided (through the operation panel) | |
| Hand switch | | Triple switch (custom-setting is possible) | |
| LED | | Provided as standard (provided with the dimmer / toning functions) | |
| Bobbin winder | | Built in the top part of machine head | |
| Machine head drive | | Compact AC servomotor: 400 W (direct-drive type) | |
| Oiling | | Semi dry (Frame: Lubricated with grease; Hook: Oil is supplied from the tank) | |
| Lubricating oil | | JUKI New Defrix Oil No. 1 (equivalent to ISO VG7) | |
| Distance from machine arm to needle / Bed size | | 300mm / 517mm×178mm | |
| Power consumption | | 600VA | 530VA |
| Product weight | | 49.8kg | Provided with thread trimmer: 49.0kg Not provided with thread trimmer: 48.4kg |

*1 sti/min is the abbreviation for 'stitches per minute'. *2 The maximum sewing speed varies depending on the stitch shape.

WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

Machine head

● without automatic thread trimmer **LZ2290CS0B**

● with automatic thread trimmer **LZ2290C□7□B□□□□□**

| Digital Specifications | | Wiper, Nipper and one-touch type reverse feed | | Automatic foot lifter | |
|------------------------|----------|---|-----------------------------|-----------------------|--------------|
| Code | | Wiper | One-touch type reverse feed | Code | |
| Full digital type | F | Provided | Provided | Not provided | |
| Digital type | S | Not provided | Provided | Standard presser type | AK155 |
| | | | | Active presser type | AK156 |

*AK156 is available for "F" only.

Control box

SC95□A□

| Digital type | Code | Power supply | Code |
|-------------------|----------|-----------------------------------|----------|
| Full digital type | 5 | Single-phase 100~120V | S |
| Digital type | 6 | 3-phase 200~240V | D |
| | | Single-phase 200~240V | K |
| | | Single-phase 200~240V (for ce) | N |
| | | Single-phase 200~240V (for china) | U |



Registered Organization: JUKI CORPORATION Head Office
The Scope of the Registration: The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.



LZ-2290CF-7



JUKI CORPORATION
SEWING MACHINERY & SYSTEMS BUSINESS UNIT

2-11-1, TSURUMAKI, TAMA-SHI,
TOKYO 206-8551, JAPAN
PHONE: (81) 42-357-2370
FAX: (81) 42-357-2274
<https://www.juki.co.jp/en>

* 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 soyink on recycle paper.
* Paper from responsible sources FSC™ C001712

MARCH, 2023 Printed in Japan(TN)

LZ-2290C Series

Semi-Dry head, Digital Zigzag Stitch Sewing System

Inspire the Knowledge in Sewing Adjustment

Epoch-making Sewing Systems in history

Semi-Dry head, Digital Zigzag Stitch Sewing System

LZ-2290C Series

Digital sewing system proposes the production process added with a computerized new value to all the people who engage in production.

Semi-Dry head, Digital Zigzag Stitch Sewing System

LZ-2290C Series



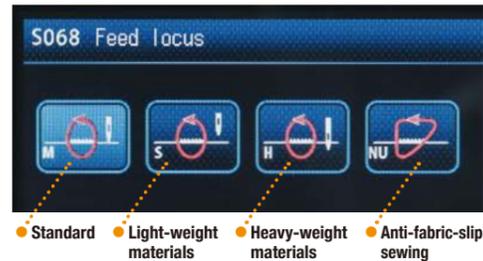
Horizontal-/vertical-drive digital feed mechanism **full digital**

The horizontal-/vertical-feed mechanism is controlled by motor. The sewing machine can be adjusted with ease by operating the operation panel.

The sewing machine provides the best-suited sewing performance according to the process and material.

Change in feed timing has been a time-consuming operation. For the LZ-2290C, however, feed timing can be changed with ease by operating the operation panel. It is therefore possible to set the feed timing so as to produce the seam quality (soft ⇄ standard ⇄ hard) that is suited to the process.

In addition, the feed locus can be changed to that for preventing material slippage. With these improvement, the sewing machine provides further enhanced responsiveness to materials.



Rotary-type active tension has been adopted **full digital**



The LZ-2290C is the world's first sewing machine that comes with the rotary-type active tension. Conventionally, it has been difficult to adjust the thread tension when the remaining amount of bobbin thread has reduced. This sewing machine, however, is able to correct and stabilize the thread tension by means of the active tension. In addition, the thread tension can be corrected according to the sewing speed, thereby contributing to improved seam quality.



Active presser type can be selected **full digital**

Thanks to the adoption of the active presser foot, the presser foot pressure can be corrected according to the sewing speed, and jumping during high-speed sewing can be suppressed.

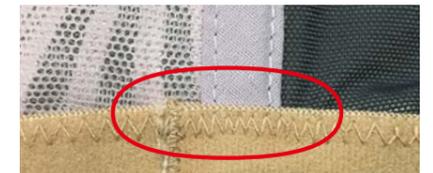
(Select automatic foot lifter AK156 type at the time of factory shipment)



Multi-layered portion detection device is provided **full digital**

The LZ-2290C is provided with the multi-layered portion detection device. Sewing conditions on a flat portion and that on a multi-layered portion of material can be respectively set.

As a result, conventional problems that are likely to occur when sewing a multi-layered portion of material such as stitch gathering and loose stitches can be prevented.



Ex. Stitch gathering

Sewing of diversified patterns is possible



The sewing machine is provided as standard with 11 types/20 patterns of basic stitch shapes. Sewing patterns such as zigzag stitching, T stitching and pattern sewing can be selected on the new operation panel of the main body, thereby substantially increasing the facility operation rate.

In addition, a sewing pattern can be created for the brassiere sewing process for sewing a brassiere while skipping its bone portions. This also helps increase productivity.



For men's garments, the machine is used in processes such as topstitching for welt pockets, sewing collar cloths and sewing labels. For ladies' garments, it can perform pattern stitching for the collars and front bodies of jackets and blouses. In addition, original patterns can be created using the custom pattern feature, enabling the machine to be utilized for a broader range of uses.

Example of use



Sewing pattern

| Name of pattern | Straight stitch | Standard zigzag | 2-step zigzag | 3-step zigzag | Scallop (left) | | | | Scallop (right) | | | | |
|--------------------|-----------------|-----------------|---------------|---------------|----------------|----------|-------------|-------------|-----------------|----------|-------------|-------------|---|
| | | | | | Standard | Crescent | Equal-width | Equal-width | Standard | Crescent | Equal-width | Equal-width | |
| Stitch pattern | — | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ |
| Number of stitches | 1 | 2 | 4 | 6 | 24 | | | | 12 | | | | |

| Name of pattern | Blind stitch (left) | Blind stitch (right) | T-shape stitching (left) | T-shape stitching (right) | Pattern stitching 1 | Pattern stitching 2 (fagoting) | Pattern stitching 3 | Pattern stitching 4 | Custom pattern |
|--------------------|---------------------|----------------------|--------------------------|---------------------------|---------------------|--------------------------------|---------------------|---------------------|----------------|
| Stitch pattern | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ |
| Number of stitches | 2+a | | 3 | 3 | 6 | 6 | 6 | 6 | Max.500 |

*The custom pattern data storage capacity has been substantially increased to store 200 patterns in memory.

Custom pattern



Various digitalized functions

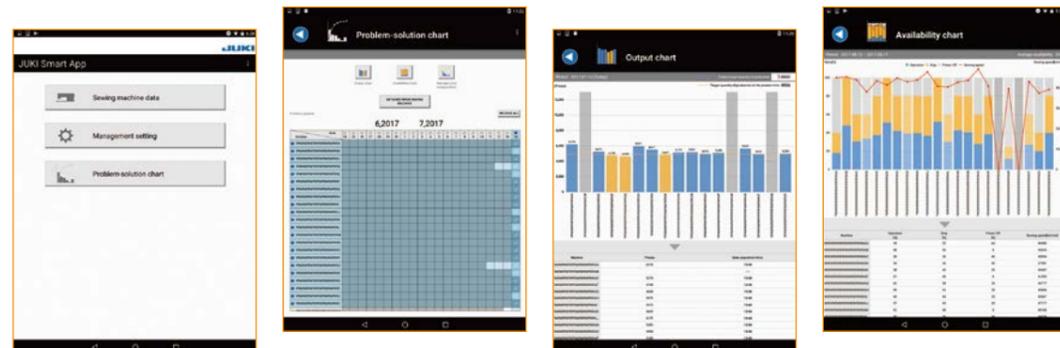
Data and sewing machine management with IoT (Internet of Things)

A "Two-way" contactless communication for parameter adjustment data can be conducted with the sewing machine by a commercial Android terminal. This feature allows sewing machines in a sewing line to be uniformly set and status checked quickly, thereby contributing to stabilization in product quality. Control panel is standardized with USB ports, promising simplicity in data management and system updates.



JUKI Smart APP allows you to send and confirm various data

In the application, there are items of management setting (terminal registration), sewing machine data (sewing data), problem-solution chart. In the problem-solution chart, we can generate production graphs, the availability chart, etc. for each acquired sewing machine data so it can be used for checking the current situation and analyzing it.



*Android OS Version 6.0 is recommended to use JUKI Smart APP. (Operation is confirmed with respect to Versions 5.0 and later.) Contact JUKI distributor in your area for how to use the application software.

The sewing machine can be paired with equipment which supports NFC (Near Field Communication) only by holding the equipment over the sewing machine.

Energy-saving function

Automatic OFF function of the operation-panel backlight

Back light of the panel is automatically turned off in the case the operation panel is not operated for a certain period of time. (The setting is from 1 to 20 minutes.)

Sleep mode (Automatic power-OFF function)

If no operation is carried out for a predetermined period of time, the power supplies to the motor, etc. (The setting is from 1 to 50 minutes.)

*These options can be set up on the operation panel.

JUKI ECO PRODUCTS The LZ-2290C is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

For details of JUKI ECO PRODUCTS, refer to: <https://www.juki.co.jp/en/company/eco>

*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.

Comfortable working environment is created

Structure with no oil pan



The semi-dry machine head that is supplied with grease has been developed. With this machine head, oil stains on sewn products are reduced.

LED light



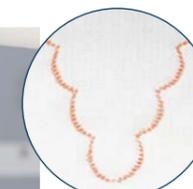
The LED light is provided as standard on the undersurface of arm jaw. In addition to the conventional function of the LED light, the color shade can be changed over as "white ⇄ neutral color (initial value) ⇄ incandescent" so as to help reduce the operator's eye fatigue.

Cooling fan



The cooling fan is laid out at the position that is best to reduce the heat generated by the hook unit.

Triple hand switch



Mirror sewing

The triple type hand switch has been introduced. The switch supports many different functions such as touch-back function, mirror function and multi-layered portion correction function.

Back lever

The back lever (reverse-feed lever) is provided as standard so as to support delicate sewing operations.

Hook timing adjustment mode

Hook timing can be safely adjusted while leaving the sewing machine ON by setting operation mode to the "Hook timing adjustment mode" on the operation panel.

OPTION

| Description | Part No. | Features |
|--|---------------|--|
| Presser bar | D1501-583-H00 | The aforementioned parts are used when a lockstitching type presser foot is installed on the machine. *Presser foot connecting components (Replaceable presser bar) cannot be attached to LZ-2290CF-7/AK-156. |
| Presser connecting rod (Replaceable presser bar) | D1502-583-H00 | |
| Presser foot connecting foot | B1551-586-000 | |
| Screw | SS-7090910-TP | |
| Presser adjustment spring (φ1.2) | B1505227T00 | To reduce the presser foot pressure when sewing light-weight materials, etc. |
| Presser adjustment spring (φ1.6) | B1505552000A | To reduce jumping of the presser foot when sewing at a high-speed |
| Hard-point hook | 225-26578 | The blade point of this hook prevents abrasion. |
| Presser foot asm. | 22591564 | Gauge set for fagoting |
| Feed dog | 10064004 | |
| Throat plate asm. | 10061554 | |
| Fagoting folder asm. | MAM09700BA0 | |
| Screw | SS5110710SP | |
| Automatic foot lifter asm.: AK-155 | 40227990 | AK-155 can be retrofitted to LZ2290CF-7 and LZ2290CS-7. |

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

[Set part number] ● for LZ-2290CF: 40231251 ● for LZ-2290CS: 40231250



Knife unit
225-56054



Presser foot (asm.)
225-80369



Needle thread guide
D1440-583-H00



Thread tension disk (asm.)
for LZ-2290CS:
40017095



AT thread tension (asm.)
for LZ-2290CF:
40172470

List of the major gauges

| Max zigzag width / Max feed pitch | Throat plate | Feed dog | Presser foot (with finger guard) |
|-----------------------------------|---|---|---|
| | 10041010 | 10047017 | 22580369/10045052 <p>(at the time of delivery)</p> |
| | 10041101 | 22580104 | <p>With a recess on the reverse side of the presser foot</p> 22580260 Light-in-weight type |
| | 22580005 | 22580500 | 22580765 Light-in-weight type with the front fulcrum |
| | 22582100 | 22582209 | 23503154/23503162 |
| | 22582704 | 22582803 | 23503253 Front fulcrum type |
| | 22582407 (at the time of delivery) | 22581508 (at the time of delivery) | 22580864/10055051 |
| | 22582506 | 23558208 | 40138514 (at the time of delivery) |
| | 22582407 (at the time of delivery) | 22548804 | 40003542 CB type: at the time of delivery |
| | 22582506 | 22540009 | Threed cutter knife 11434206 |
| | 22582506 | 40018431 | MAB109000B0 |
| | 22582506 | 40018430 | Presser foot with a tape guide |
| | 10061554 | 10064004 | 22591564 |

| Max zigzag width / Max feed pitch | Throat plate | Feed dog | Presser foot (with finger guard) |
|-----------------------------------|------------------------|-------------------------------------|---|
| | 22545008 | 22545107 | 22545362 Light-in-weight type |
| | 22545511 | 22545610 | 22545867 Light-in-weight type with the front fulcrum |
| | 22548705 | 22548804 | 22548960 Light-in-weight type |
| | 22548507 | 22548408 | 22547962/22547970 |
| | 22548010 | 22548119 22541601 | 40003549 Presser foot with a knife |
| | 22549000 | 22549109 22541809 | Using one trimming knife. |
| | 22549208 | 22549307 22541700 | Threed cutter knife 11434206 |
| | 22546519 | 22546717 22546618 | 22546964 Light-in-weight type |
| | 22546212 | 22546410 22546311 | 22547269 Light-in-weight type with the front fulcrum |
| | MAD04060000 | MAD04070000 | MAD040500A0 |
| | 22549604 | 22549703 | 22549869 Light-in-weight type |

Two different part numbers are assigned to one presser foot (ex. 22547962 and 22547970), if you place an order for 22547962 (left number), factory supplies you presser foot installed with a big figure guide, 22547970 (right number) with small finger guide respectively.