

Good Value Models with JUKI Quality and Friendly to Operators



LK-1903S

Computer-controlled, High-speed, Lockstitch, Button Machine

LK-1903S

SPECIFICATIONS

| Model name | LK-1903S-SS |
|---|---|
| Application | Standard |
| Max. sewing speed | 2,700sti/min* |
| Button size | Type : Round-shaped, flat button (2-holed, 4-holed) Size : φ8~φ32mm 301 : φ8~φ20 302 : φ10~φ20 OPTION : φ15~φ32 |
| Lubrication | Semi-dry head (Hook: minute-quantity lubrication) |
| Stitch length | 0.1~10mm (0.1mm step) |
| Needle bar stroke | 45.7mm |
| Lift of the work clamp foot | Max.13mm |
| Auto-lifter | Provided as standard (stepping motor type) |
| Needle thread tension | Spring type dial thread tension controller |
| Needle (at the time of delivery) | DP×17 (#14) |
| Hook | Standard shuttle hook |
| Number of stitches that can be stored in memory | Max. 20,000 stitches |
| Number of standard patterns | 50 patterns |
| Number of data that can be input | 200 patterns |
| Enlarging/Reducing facility | 20~200% (1% step), Pattern enlargement/reduction can be done by increasing/decreasing the stitch length |
| Memory medium | Internal-organs memory |
| Bobbin thread counter | Provided as standard (up/down method) |
| Lubricating oil | JUKI New Defrix Oil No.2 (equivalent to ISO VG32) |
| Sewing machine motor | Compact AC servomotor (direct-drive system) |
| Power supply / Power consumption | Single-phase 200~240V / 250VA |
| Weight | Machine head (include motor) 42kg, Control box 5.1kg |

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

WHEN YOU PLACE ORDERS

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

Machine head

| Application | Code | Work clamp foot | Code |
|-------------|------|-----------------|------|
| Standard | S | Standard | S |

LK1903SSS

| Button clamp jaw lever | Code |
|-------------------------------|------|
| For extra-small, small button | 301 |
| For medium-size button | 302 |

Control box

| Operation panel | Code |
|-----------------|------|
| Standard | S |

MC673

| Power supply | | Code |
|--------------|-----------------------|------|
| Single-phase | 200V~240V | K |
| | 200V~240V (For CE) | N |
| | 200V~240V (For China) | U |

● To order, please contact your nearest JUKI distributor.

| | |
|--------------------------|---|
| JUKI ECO PRODUCTS | The LK-1903S is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment. |
| | <ul style="list-style-type: none"> ● 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. <p>For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html</p> <p>*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.</p> |



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.

JUKI

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
<http://www.juki.com>

- * 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



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JUKI Simple Series sewing machine LK-1903S has been designed to have simplified and narrowed down capabilities that are essentially required to produce JUKI's established seam quality. In addition, it supports the operator with the voice guidance system to improve work efficiency.



Standard operation panel (new model)

Voice guidance for the operator

This sewing machine is provided as standard with the voice-guidance system with clock function. This voice guidance can be used for the purpose of production support such as giving the operator information about the number of pieces produced, work progress management and the operation rate of sewing machine, though the initial setting is required.



Distance between holes in a button data contained in a pattern number can be changed with ease by means of the pattern enlargement / reduction function. This operation can be done by entering the scale ratio through the operation panel.

Standard sewing patterns(P1 to P200) can be assigned to pattern keys P1 to P50. Any of the sewing patterns assigned to the P1 to P25 pattern keys can be activated with a touch of the corresponding key. This means that workability is improved by assigning 25 sewing patterns that are most frequently used to those pattern keys.

As many as 99 different cycle sewing patterns, each of which combines a maximum of 99 different sewing patterns, can be stored in the memory.

The operation panel is provided as standard with a USB port. This means that the sewing machine data management and software updating can be carried out with ease by means of the USB port.

JUKI's established quality is achieved with simplified functions

Higher productivity

The machine's starting, stopping, thread-trimming, up and down of button clamp jaw lever and the jump speeds have reducing to total cycle time.

Higher flexibility

This sewing machine quickly carries out sewing of various kinds of sewing patterns.

- The machine is provided as standard with 50 different sewing patterns. The machine permits easy changeover of sewing patterns for effortless execution of an inexhaustible range of sewing specifications.
- The LK-1903S is also able to sew buttons using the same data used for the LK-1903 (Data in EP-ROM are enabled by conversion).

Improved operability

Auto-lifter mechanism utilizing a system.



- The machine is provided as standard with auto-lifter that uses a stepping-motor system. This helps reduce operator fatigue.
- The work clamp foot lift can be set to a maximum of 13mm.

LED light (light quantity in five levels + light-out function)



The LED light that illuminates the needle entry area is provided as standard. The LED light is provided with the six-step changeover switch to control its brightness and light-out.

Excellent responsiveness promises comfortable work



The direct-drive system that directly connects the compact AC servomotor to the main shaft of the sewing machine has been adopted. This system enables quick startup and promises increased stopping accuracy, thereby contributing to improved responsiveness.

| Pattern No. | Stitch shape | Sewing thread (pcs.) | Standard length X (mm) | Standard length Y (mm) | Pattern No. | Stitch shape | Sewing thread (pcs.) | Standard length X (mm) | Standard length Y (mm) |
|-------------|--------------|----------------------|------------------------|------------------------|-------------|--------------|----------------------|------------------------|------------------------|
| 1-34 | ⊗ | 6-6 | 3.4 | 3.4 | 18-44 | ⊗ | 6 | 3.4 | 0 |
| 2-35 | ⊗ | 8-8 | | | 19-45 | ⊗ | 8 | | |
| 3 | ⊗ | 10-10 | | | 20 | ⊗ | 10 | | |
| 4 | ⊗ | 12-12 | | | 21 | ⊗ | 12 | | |
| 5-36 | ⊗ | 6-6 | | | 22 | ⊗ | 16 | | |
| 6-37 | ⊗ | 8-8 | | | 23-46 | ⊗ | 6 | 0 | 3.4 |
| 7 | ⊗ | 10-10 | | | 24 | ⊗ | 10 | | |
| 8 | ⊗ | 12-12 | | | 25 | ⊗ | 12 | | |
| 9-38 | ⊗ | 6-6 | | | 26-47 | ⊗ | 6-6 | 3.4 | 3.4 |
| 10-39 | ⊗ | 8-8 | | | 27 | ⊗ | 10-10 | | |
| 11 | ⊗ | 10-10 | | | 28-48 | ⊗ | 6-6 | | |
| 12-40 | ⊗ | 6-6 | | | 29 | ⊗ | 10-10 | | |
| 13-41 | ⊗ | 8-8 | | | 30-49 | ⊗ | 5-5-5 | 3.0 | 2.5 |
| 14 | ⊗ | 10-10 | | | 31 | ⊗ | 8-8-8 | | |
| 15-42 | ⊗ | 6-6 | | | 32-50 | ⊗ | 5-5-5 | | |
| 16-43 | ⊗ | 8-8 | | | 33 | ⊗ | 8-8-8 | | |
| 17 | ⊗ | 10-10 | | | | | | | |

※ (1) Standard sewing lengths X and Y given above are given assuming that the scale is 100.
 (2) Use the patterns No. 34-50 with hole diameter 1.5mm or less.

| Model name | LK-1903S-301 | LK-1903S-301 | LK-1903S-302 |
|--|------------------------|---------------------------|---|
| Button size | For extra-small button | | For medium-size button |
| Outside diameter that can be adjusted (mm) | φ8~φ9 | φ9~φ10 | φ10~φ20 |
| Sewing size (mm) | Length (Y) | 0~2.5 | 0~3.5 |
| | Width (X) | 0~2.5 | 0~3.5 |
| Button clamp jaw lever (combination) | Thickness (mm) | 1.7 (2.2) | 2.0 (2.2) (2.7) (0.9) |
| | Part No. | MAZ158070BB (MAZ158070BA) | G (MAZ155070B0) (MAZ156070B0) (B25553720A0) |
| Needle hole guide (mm) | A | 1.6 (1.8) | 1.6 |
| | B | φ2.8 | φ3.5 |
| Feed plate | MAZ15801000 (14149900) | (MAZ15501000) (14149603) | MAZ15601000 |

※ Parts shown in parentheses () are optional. ※: Engraved marker

| Option | Model name | Option | | | | | | | | |
|------------------|---------------------------------------|---|--------|--------|---|---|---|---|---|---|
| For large button | Button type | For shank button | | | | | | | | |
| φ15~φ32 | Max. sewing speed | 1,500sti/min | | | | | | | | |
| 0~6.5 | Button configuration | Outside diameter | | | | | | | | |
| 0~6.5 | | Diameter of hole in button | | | | | | | | |
| 2.7 (3.2) | Position of hole in button | φ8~φ20 | | | | | | | | |
| | | φ1.5 or more | | | | | | | | |
| | Configuration of shank | 1.5mm or more | | | | | | | | |
| | | <table border="1"> <tr> <th>B (mm)</th> <th>A (mm)</th> </tr> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>5</td> <td>7</td> </tr> </table> | B (mm) | A (mm) | 1 | 4 | 3 | 3 | 5 | 7 |
| B (mm) | A (mm) | | | | | | | | | |
| 1 | 4 | | | | | | | | | |
| 3 | 3 | | | | | | | | | |
| 5 | 7 | | | | | | | | | |
| | Pattern No. | 18, 19, 20, 21, 22 | | | | | | | | |
| | Optional part for shank button | | | | | | | | | |
| | Part No. | Name of part | | | | | | | | |
| | 14146054 | Pick-up device complete | | | | | | | | |
| | D1401M1YC0A | Needle bar (for TQx1) | | | | | | | | |
| | MAZ160170A0 | Wiper (asm.) | | | | | | | | |
| | 40015434 | Moving plate link A | | | | | | | | |
| | 14148209 | Bushing | | | | | | | | |
| | SL6030892TN (2 pcs.) | Screw | | | | | | | | |
| | MAZ16015000 | Button support link | | | | | | | | |
| | SD0640321TP | Hinge screw | | | | | | | | |
| | 40010103 | Connecting link | | | | | | | | |
| | SL6040892TN (2 pcs.) | Screw | | | | | | | | |
| | MAZ16021000 | Needle hole guide | | | | | | | | |
| | MTQ300B1400 | Needle TQx3 #14 | | | | | | | | |