

# LK-1903S

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



## Good Value Models with JUKI Quality and Friendly to Operators



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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.



**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).

**TABLE OF THE SEWING PATTERNS**

	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
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.

## 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.

## 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.

MODELS CLASSIFIED BY BUTTON SIZES								
Model name		LK-1903S-301		LK-1903S-301		LK-1903S-302		
Button size		For extra-small button		For small button (accessory)		For medium-size button		
Outside diameter that can be adjusted (mm)		φ8~φ9	φ9~φ10	φ10~φ15	φ10~φ20	φ10~φ20		
Sewing size (mm)	Length (Y)	0~2.5	0~3.0	0~3.5	0~3.5		0~4.5	
	Width (X)	0~2.5	0~3.0	0~3.5	0~3.5		0~4.5	
Button clamp jaw lever (combination)	Thickness (mm)	1.7 (2.2)		1.7 (2.2) (2.7) (0.9)		2.0 (2.2) (2.7)		
				*	*	*		
	Part No.	Right	MAZ158070BB	G	14148852	K	14149058	L
			(MAZ158070BA)	F	(MAZ155070B0)	B	(MAZ155070B0)	B
		Left	—	—	(MAZ156070B0)	C	(MAZ156070B0)	C
			—	—	(B25553720A0)	—	—	—
Needle hole guide (mm)	A	1.6 (1.8)		(1.6) (1.8) (1.1)		1.6		
		φ2.8		(φ3.5)		φ3.5		
Part No.	C	φ1.6		(φ1.6)		φ2.0		
		MAZ15801000		(MAZ15501000)		MAZ15601000		
		(14149900)		(14149603)				
		—		(D2426284Y00)		—		
Feed plate		MAZ15502000 (□8.5)		MAZ15502000 (□8.5)		MAZ15602000 (□10)		

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

OPTION	
Option	For large button
	φ15~φ32
	0~6.5
	0~6.5
	2.7 (3.2)
	*
	MAZ157070BB
	(MAZ157070BA)
	—
	—
	MAZ157080BB
	(MAZ157080BA)
	—
	—
	1.4
	φ3.5
	φ2.0
	MAZ15701000
	MAZ15702000 (□12.5)

Model name	Option																				
Button type	For shank button																				
Max. sewing speed	1,500sti/min																				
Button configuration	Outside diameter	φ8~φ20																			
	Diameter of hole in button	φ1.5 or more																			
Configuration of shank	Position of hole in button	1.5mm or more																			
		<table border="1"> <thead> <tr> <th colspan="2">B (mm)</th> <th colspan="2">A (mm)</th> </tr> <tr> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>9</td> <td>9</td> </tr> <tr> <td>3</td> <td>3</td> <td>8</td> <td>8</td> </tr> <tr> <td>5</td> <td>—</td> <td>7</td> <td>7</td> </tr> </tbody> </table>	B (mm)		A (mm)		Min	Max	Min	Max	1	4	9	9	3	3	8	8	5	—	7
B (mm)		A (mm)																			
Min	Max	Min	Max																		
1	4	9	9																		
3	3	8	8																		
5	—	7	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 TQ×1)
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 TQ×3 #14

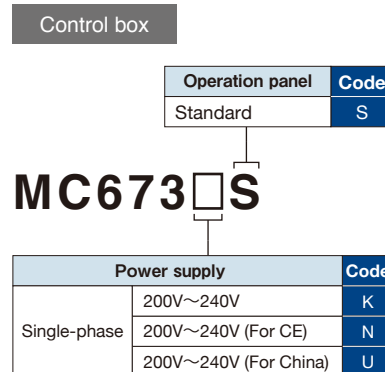
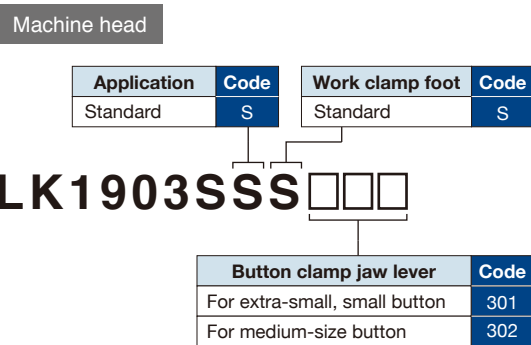
**SPECIFICATIONS**

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:



<b>PRODOTTI JUKI ECO</b>	La macchina LK-1900S è un prodotto conforme agli standard JUKI ECO PRODUCTS per la salvaguardia ambientale.
	<p>● a macchina da cucire è conforme alle linee guida "Juki Group Green Procurement Guidelines" sull'utilizzo di sostanze pericolose, più rigorose rispetto ad altre restrizioni, ad esempio quelle previste dalle direttive RoHS Directive.</p> <p>Per ulteriori dettagli su JUKI ECO PRODUCTS, consultare il sito: <a href="http://www.juki.co.jp/eco_e/index.html">http://www.juki.co.jp/eco_e/index.html</a></p> <p>* La Direttiva RoHS è una Direttiva EU che limita l'uso di 6 sostanze pericolose (piombo, cromo esavalente, mercurio, cadmio, PBB e PBDE) nelle apparecchiature elettriche ed elettroniche. Le linee guida Juki Green Procurement intendono eliminare non solo le sei suddette sostanze, ma anche tutte le altre sostanze considerate dannose per l'ambiente.</p>



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