JUKI

LK-1900S
Computer-controlled, High-speed, Bartacking Machine

SIMPLY smart solution

Good Value Models with JUKI Quality and Friendly to Operators

LK-1900S

A MS JAB CM001
JSA EMS ISO14001 JSAE389
UKAS MANAGEMENT SYSTEMS 089

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

∗ 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.
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Computer-controlled, High-speed, Bartacking Machine

L K - 19 00S

LK-1900S

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JUKI Simple Series sewing machine LK-1900S 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.

■ Bartacking 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 can be registered to the pattern keys P1 to P50. In addition, the registered patterns P1 through P25 can be called up by a touch of the corresponding pattern key. It is advised to register 25 sewing patterns you use frequently to the pattern keys P1 to P 25 in order to improve workability.

■ 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.

USB port

Speaker

JUKI's established quality is achieved with simplified functions

Higher productivity

This sewing machine shortens the total cycle time with its improved capabilities such as the maximum sewing speed of 3,200 sti/min, quick acceleration at the beginning of sewing and quick deceleration at the end of sewing, increased thread trimming speed and work clamp foot lifting speed.

Higher flexibility

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

The sewing machine is provided as standard with 51 sewing patterns with different stitch directions and number of stitches, such as large bartacking, small bartacking, straight line tacking.
The operator can select the best-suited sewing pattern according to the given process. (In some cases, the work clamp foot and other parts may be required to be changed.)

■ **The sewing machine provides the sewing area of 30 mm (length) × 40 mm (width).**

With its large sewing area, this sewing machine can be fully utilized for sewing various kinds of sewing patterns such as lengthwise bartacking.
In addition, the sewing machine has such a large memory capacity to store many different scale ratios, numbers of stitches and numbers of sewing patterns, thereby ensuring improved flexibility.

■ **Feed control systems**

The Y-θ intermittent feed system that JUKI has developed for many years has been adopted for the feed control of the LK-1900S.

■ **The LK-1900S comes in two different types to allow customers to select the best-suited one.**

- The LK-1900S comes in two different types; i.e., S type (Standard) and H type (for Heavy-weight materials). Customers may select one of these types according to their applications.
- The sewing machine has adopted a sufficient-in-power 550-W motor. With this motor, the sewing machine allows the needle to penetrate into heavy-weight materials smoothly.

LK-1900S-S type
(Bartacking pocket lip of suits)

LK-1900S-H type
(Bartacking crotch of jeans)

Improved operability

■ Longer distance from machine arm to needle ensures comfortable work

The slim-in-shape machine head has been designed to provide a longer distance from machine arm to needle to improve ease of handling the material and of carrying out continuous work.

■ Location of the hand pulley allows the operator to check the needle entry with ease

The hand pulley is located at the arm of machine head. This arrangement helps the operator visually check the needle entry with ease.

■ 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.

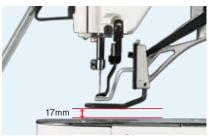### ■ LED light (light quantity in five levels + light-out function)

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.

■ Work clamp foot lifting height (max. 17mm)

17mm

The sewing machine is provided as standard with the stepping-motor type work clamp foot lifting device. The maximum lifting amount of the work clamp foot is 17 mm.

TABLE OF THE STANDARD PATTERNS

No.	Stitch diagram	Number of stitches	Sewing size (mm) Lengthwise	Crosswise	No. of work clamp foot (Note 2)
1 (51)		42	2.0	16	1 / 2 / 3
2			2.0	10	1 / 2 / 3
3*			2.5	16	1 / 4
4*			3.0	24	6 / 7
5		28	2.0	10	1 / 2 / 3
6*			2.5	16	1 / 4
7		36	2.0	10	1 / 2 / 3
8*			2.5	16	1 / 4
9*		56	3.0	24	6 / 7
10*		64	3.0	24	6 / 7
11		21	2.5	6	
12		28	2.5	6	8
13		36	2.5	6	
14		14	2.0	8	
15		21	2.0	8	5
16		28	2.0	8	

Categories (left column): No.1–10 Large bartacking; No.11–13 Small bartacking; No.14–16 Large bartacking.

No.	Stitch diagram	Number of stitches	Sewing size (mm) Lengthwise	Crosswise	No. of work clamp foot (Note 2)
17		21	0	10	1 / 2 / 3
18		28	0	10	1 / 2 / 3
19			0	25	6 / 7
20		36	0	25	6 / 7
21		41	0	25	6 / 7
22		44	0	35	(Note 3)
23	(Top) ... (Bottom)	28	20	4.0	
24	(Top) ... (Bottom)	36	20	4.0	
25	(Top) ... (Bottom)	42	20	4.0	
26	(Top) ... (Bottom)	56	20	4.0	9, 10
27	(Top) ... (Bottom)	18	20	0	
28	(Top) ... (Bottom)	21	10	0	
29	(Top) ... (Bottom)		20	0	11
30	(Top) ... (Bottom)	28	20	0	

Categories (left column): No.17–22 Linear bartacking; No.23–26 Lengthwise bartacking; No.27–30 Lengthwise linear bartacking.

No.	Stitch diagram	Number of stitches	Sewing size (mm) Lengthwise	Crosswise	No. of work clamp foot (Note 2)
31		52	7	10	13
32		63	7	12	13
33		24	6	10	13
34		31	6	12	13
35		48	10	7	14
36		48	10	7	14
37		90	3	24	6 / 7
38		28	2	8	5
39		28	ø12	16	
40		48	ø12	16	

Categories (left column): No.31–36 Semilunar bartacking; No.37 Large size bartacking; No.38 Knit goods bartacking; No.39–40 Round bartacking.

No.	Stitch diagram	Number of stitches	Sewing size (mm) Lengthwise	Crosswise	No. of work clamp foot (Note 2)
41		29	20	2.5	
42		39	25	2.5	
43		45	25	2.5	12
44		58	30	2.5	
45		75	30	2.5	
46		42	30	2.5	
47		91			
48		99	ø8		15
49		148			
50		164			

Categories (left column): No.41–46 Lengthwise bartacking; No.47–50 Radial tacking.

(Note) 1. Sewing size shows the dimensions when the scale rate is 100%.
2. Refer the No. of work clamp foot to the separate table of work clamp foot.
3. For No. 22, modify the work clamp foot blank for use.
4. Use the patterns with ✳ marks for sewing denim.
5. No.51 is the pattern No.1 without thread clamp.
6. For LK-1900BB, the pattern No.51 is not selectable.

TABLE OF THE WORK CLAMP FOOT

No. of work clamp foot	1	2	3	4	5	6	7	8
Work clamp foot	13518659(asm.)			13548557(asm.)	13542964(asm.)	13548151(asm.)		13542451(asm.)
Feed plate	14116107	14116404 (without knurl)	14116800 (without knurl)	14116305	14116206	13548003	13554803	14116602
Finger guard*	26224204						13548300	26224204
Application code S (standard)	Installed on machine head	Option	Option	—	Option	Option	—	Option
Application code H (heavy-weight materials)	—	—	—	Option	—	—	Installed on machine head	—

No. of work clamp foot	9	10	11	12	13	14	15	16
Work clamp foot	13571955(asm.)		13561360(asm.)	14137509(Right) 14137608(Left)	40021871(Right) 40021872(Left)	40021874(Right) 40021875(Left)	40021877(Right) 40021878(Left)	40021880(Right) 40021881(Left)
Feed plate	14116503 (without knurl)	14116909 (without knurl)	14116701 (without knurl)	14137707 (without knurl)	40021873 (with knurl)	40021876 (with knurl)	40021879 (with knurl)	40021882 (with knurl)
Finger guard*	14135305				26224204			
Application code S (standard)	Option	Option	Option	—	Option	Option	Option	Option
Application code H (heavy-weight materials)	—	—	—	Option	—	—	—	—

* Install a finger guard suitable for each work clamp foot when replacing the work clamp foot.

■SPECIFICATIONS

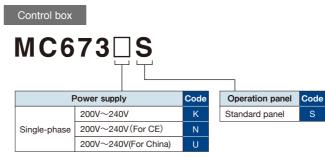| Model name	LK-1900S-SS	LK-1900S-HS
Application	Standard	For heavy-weight materials
Lubrication	Semi-dry head (Hook : minute-quantity lubrication)	
Max. sewing speed	3,200sti/min* (at the time of delivery : 2,700sti/min*)	
Sewing area	30mm (L) × 40mm (W)	
Stitch length	0.1~10mm(0.1mm step)	
Needle bar stroke	41.2mm	
Lift of the work clamp foot	Standard 13mm (17mm when the reverse-rotation needle-up function)	
Auto-lifter	Provided as standard (stepping motor type)	
Needle thread tension	Spring type dial thread tension controller	
Needle (at the time of delivery)	DP×5(#14)	DP×17(#21)
Hook	Standard shuttle hook	
Number of stitches that can be stored in memory	Max. 20,000 stitches	
Number of standard patterns	51 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 "Stiches per Minute"

■WHEN YOU PLACE ORDERS

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

Machine head

LK1900S□S000

Application	Code
Standard	S
For heavy-weight materials	H

Work clamp foot	Code
Standard	S

Attachment	Code
Not provided	000

Control box

MC673□S

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

Operation panel	Code
Standard panel	S

● To order, please contact your nearest JUKI distributor.