



Higher productivity. Low-noise and low-vibration.

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LK-1900B-SS

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LK-1900B series

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JUKI

The machine is provided with an active tension mechanism which enables the electronic control of "stitching."

The world's first

LK-1900B-BS

LK-1900BB Bird's nest preventing / Shorter-thread remaining functions

LK-1900B Series

Higher productivity. Low-noise and low-vibration.

Higher productivity.

• The machine achieves sewing speed of 3,200sti/min. The machine's starting, stopping, thread-trimming and automatic presser lifting speeds have been increased to significantly shorten total cycle time.

Excellent workability and operability. (Low-noise and low-vibration)

- The direct-drive head (with no belt), which is directly connected to a compact AC servomotor, achieves outstanding. This head helps create a comfortable working environment with reduced vibration and noise.
- The arm section of the machine head is fitted with a hand pulley. This allows the operator to visually check the needle entry points.

Excellent seam quality.

• Needle thread grasping mechanism helps produce consistent knot tying at the beginning of sewing. (This device has been factory-set to "invoking prohibited" status at the time of delivery.)

Many different sewing patterns.

- The machine is provided as standard with 51 different sewing patterns. The machine permits easy changeover of sewing patterns for effortless execution of an inexhaustible range of sewing specifications. *For LK-1900BB, the standard no. of sewing patterns is 50.
- The LK-1900B is also able to sew buttons using the same data used for the LK-1900 (EP-ROM).

The sewing starting point can be corrected.

• In cases where the needle entry point for button sewing is to be corrected, the sewing starting point can be corrected without the adjustment of the relevant mechanism.

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.
- It is also possible to change over the stroke of the auto-lifter from a onestep stroke to a double-step stroke, which offers easier positioning of a material on the machine. For the double-step stroke, an intermediate stopping height can be established on the operation panel.
- The work clamp foot lift can be set to a maximum of 17mm. (Standard 14mm)

Oil stains are eliminated.

- Thanks to our advanced dry-head technology, the frame (needle bar and thread take-up) no longer requires lubrication. This prevents the material from being stained with lubricating oil.
- Just a small quantity of clean oil is supplied from the oil tank to the hook.

Eco-friendly power saving

• An encoder is installed in the pulse motor, thereby achieving substantially improved power-consumption saving.

The machine is provided as standard with the active tension (electronic thread tension control mechanism).

• Since the machine is provided with an active tension mechanism, it is able to set a needle thread tension that matches various sewing conditions (such as thread, material and sewing speed) on the operation panel, store the data in memory and reproduce it.

Many different models are prepared according to the type of materials.

- O The LK-1900B model comes in five different subclass models, such as S type (standard), H type (for heavy-weight materials), F type (for foundation), M type (for knits and knitted materials), W type (with a large shuttle hook for heavy-weight materials) and (bird's nest preventing /shorter-thread remaining functions), to offer a choice according to any application.
- O The needle's penetrating force into the material has been increased. This provides an improved responsiveness to heavy-weight materials for the H type machine.
- O The W type has adopted a large shuttle hook, which reduces the frequency of bobbin-thread changing to enable highly efficient sewing work.



H type (Bartacking crotch of jeans)



E type (Attaching the shoulder straps to brassier)



M type (Bartacking shoulder of running shirt)





- The needle thread tension can be separated according to stitching type or portion of a seam, such as the beginning part of the seam, base stitched part, zigzag stitched part and end of the seam (fastening stitch).
- When the operation panel IP-420U is used in combination with the active tension, the needle thread tension can be set on a stitch-by-stitch basis. This helps eliminate undesired thread tension variations at a multi-layered part of a material or with sewing direction, thereby contributing to upgraded seam quality.

STANDARD LIQUID CRYSTAL PANEL (NEW)

O Functional settings, such as pattern numbers and needle thread tensions can be established through the operation panel with ease. Distance between holes in a button can be easily changed by means of pattern enlargement/reduction feature.

O Standard sewing patterns 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.

O 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.





Computer-controlled, High-speed, Bartacking Machine with bird's nest preventing / shorter-thread remaining functions

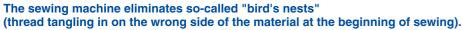
LK-1900BB The world's first

Thanks to the Bird's nest preventing/shorter-thread remaining functions, manual thread-nipping is no longer required and gives soft and smooth feeling on the bartaking sections where directly contact skin such as brassieres and tank tops.

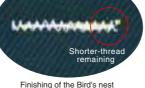


Bird's nest preventing /Shorter-thread remaining functions





• The thread is retained at the beginning of sewing and any excess thread is trimmed during sewing. As a result, the length of thread sewn in the seam is shortened, thereby achieving high-quality sewing performance while preventing thread from tangling in on the wrong side "of the material.



preventing/shorter-thread remaining functions (on the wrong side)

Length of thread remaining on the material at the end of sewing has been reduced to 2 mm or less*.

• The newly-developed shorter-thread remaining mechanism trims the thread shorter after the regular thread trimming operation. Additionally, thread waste produced by thread trimming is withdrawn by suction. Thanks to this mechanism, the trouble of manual thread nipping is avoided.

*Use #60-80 (TEX22-30) polyester spun thread

Computer-controlled, High-speed, Bartacking Machine **LK-1900B**



The machine achieves sewing speed of 3,200sti/min The machine's thread-trimming etc. have been increased to significantly shorten total cycle time.

• The machine is highly productive and provided as standard with 51 different sewing patterns. This is an excellent high speed computer-controlled bartack machine which anables to register as many as 99 cycles of which each cycle can contain 99 sewing patterns as well as good responsiveness to various sewing patterns.





I K-1901B-SS

The machine ensures high-quality bartacks on eyelet buttonholes.

- The machine is provided with a material-drawing mechanism which draws the right and left parallel portions of an eyelet buttonhole near to one another
- is clamped under the work clamp foot, thereby finishing highly durable and well-tensed eyelet buttonholes.

The sewing pattern best suited to the sewing product to be bartacked can be selected by single-key operation.

- Three different sewing patterns are prepared to enable easy switchover of sewing sizes. If the sewing patterns are assigned to the pattern keys on the operation panel, the sewing patterns can be called up or changed with single-key operation.
- in stitch number and size on jacket lapels, thereby improving the finished quality of sewing products.

The material drawing mechanism can be switched to ON/OFF.

• The material drawing amount can be adjusted to 3mm at maximum. The material drawing mechanism can be switched ON/OFF in accordance with the setting of the memory switch. With these features, the material drawing mechanism can be used with greater flexibility.

Computer-controlled, High-speed Belt-loop-attaching Machine





The sewing pattern best suited to the sewing product to be bartacked can be selected by single-key operation.

• The machine is provided as standard with six different linear bartacking patterns. Since the sewing size can be easily changed, the optimal number of stitches and sewing size can be speedily selected according to the belt-loop width. If the normally used patterns are assigned to the patterns keys, a desired pattern can be called up or changed with single-key operation.

The machine head has been designed with an emphasis on operability.

• With its broadly curved feed bracket (presser arm), the machine permits easy placement of the material to be sewn. The slimly shaped bed and head design that allows free space under the arm demonstrates greater operability in handling materials on the machine and continuous processes. These features contribute substantially to increased productivity in belt-loop attachment processes.

K-1900B-SS

3



• The machine performs bartacking with the right and left parallel portions of the eyelet buttonhole drawn near to one another after the buttonhole

The machine sews the most optimally suited bartacks on eyelet buttonholes on the front bodies of garments and straight buttonholes that differ

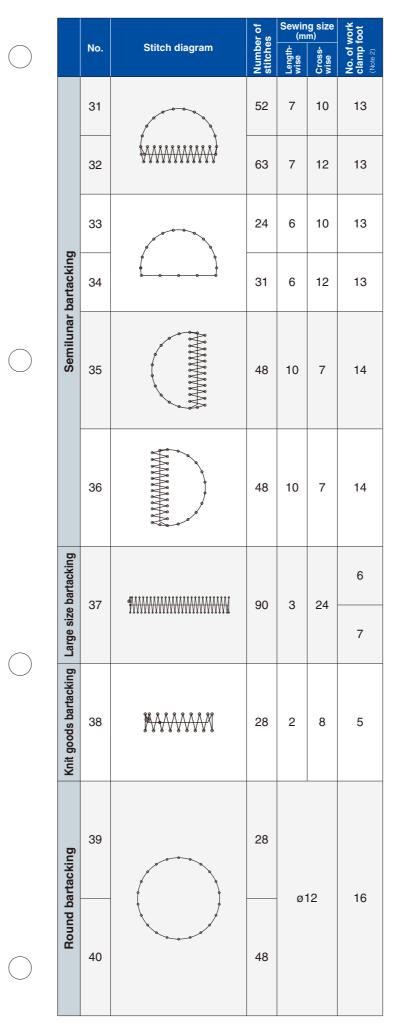
■ WORK CLAMP FOOT AND FEED PLATE FOR LK-1902B (for belt-loop attaching)

	Work clamp foot	Feed plate	Number of pattern
Provided as standard LK-1902B-SS LK-1902B-HS		14143002	17 18
Option For large size	13545660	13545504	19 20 21
Option For extra	13547161	13545801	22
large size	41.5	13547005	22

*A finger guard is included in the presser foot.

TABLE OF THE STANDARD PATTERNS

	No.	Stitch diagram	Number of stitches	Length- wise (m	ng size m) Socies Ministrica Size Ministrica	No. of work clamp foot (Note 2)			No.	Stitch diagram	Number of stitches	Length- wise (m	wise wise wise wise with with with with with with with with	No. of work clamp foot (Note 2)	\bigcirc			
	1 (51)	°₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		2.0	16	1 2 3			17		21	0	10	1 2 3				
	2		42	42	10	1 2 3			18		28	0	10	1 2 3				
	3*		72		16	1		Linear bartacking	19		20	0	25	6 7				
	4*	*****		3.0	24	6 7		Linear b	20		36	0	25	6 7				
Large bartacking	5	~ }	28	2.0	10	1 2 3			21	AN CANA	41	0	25	6 7	\bigcirc			
Large b	6*			2.5	16	1			22	and the	44	0	35	(Note 3)				
	7		36	2.0	10	1 2 3		Ъ	23	(joi marked by the second seco	28	20	4.0					
	8*	₩₩₩₩₩₩₩₩		2.5	16	1	Lengthwise bartacking	e bartackii	24	(Bit MAAAAAAAA (Bit and a second seco	36	20	4.0	9, 10				
	9*		56	3.0	24	6 7		Lengthwis	Lengthwi	Lengthwi	Lengthwis	25	(Top) (Bottom)	42	20	4.0		
	10*		64	3.0	24	6 7			26	(Top)	56	20	4.0		\bigcirc			
sking	11	€	21	2.5	6		:	Icking	27	(Top) (Bottom)	18	20	0		\bigcirc			
Small bartacking	12		28	2.5	6	8		Lengthwise linear bartacking	28	(Top)	21	10	0	11				
S	13		36	2.5	6			ngthwise I	29	(Bottom) (Bottom)		20	0					
cking	14		14	2.0	8				30	a the dimensions when the	28	20	0					
Large bartacking	15		21	2.0	8	5			2. Refe 3. For I 4. Use 5. No.5	via the No. of work clamp foot to the sep No. 22, modify the work clamp foot bit the patterns with * marks for sewing of the stattern No.1 without thread cl K-1900BB, the pattern No.51 is not set	parate tal ank for us denim. amp.	ble of wo		o foot.	\bigcirc			
Ľ	16	¥ ***** *	28	2.0	8										\bigcirc			



			r of s	Sewin (m	g size m)	vork foot	
	No.	Stitch diagram	Number of stitches	Length- wise	Cross- wise	No. of work clamp foot (Note 2)	
	41		29	20	2.5		
	42	WWW	39	25	2.5		
Lengthwise bartacking	43	፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟	45	25	2.5	12	
Lengthwise	44	MANNAR RANNAR	58	30	2.5	12	
	45		75	30	2.5		
	46	100000000000000000000000000000000000000	42	30	2.5		
	47		91				
Radial tacking	48		99	ø8		15	
Radial	49		148				
	50		164				

TABLE OF THE WORK CLAMP FOOT

No. of work clamp foot	1	2	3	4	5	6	7	8
		13518659(asm.)		13548557(asm.)	13542964(asm.)	135481	51(asm.)	13542451(asm.)
Work clamp foot	Ş				40 334 40 334 40 40 40 40 40 40 40 40 40 4	40.5		40 10 8 2 8 2 8 2 8 2 8 2 8 10 4 10 4 10 4 10 10 10 10 10 10 10 10 10 10
	14116107	14116404	14116800	14116305	14116206	13548003	13554803	14116602
		(without knurl)	(without knurl)					
Feed plate	25 29 4 4 29 4 4 4 4 4 4 4 4 4 4 4 4 4	25 29 14 29 4 14 14 14 14 14 14 14 14 14	50 	21.2	8: 11.4	25 98 4 4 37.3	27.4	
Finger guard*			26224204			1354	8300	26224204
Application code	S	F	F	Н	М	S	Н	S
S(standard)	Installed on machine head	_	_	_	_	Option	—	Option
$H^{\text{heavy-weight}}_{\text{materials}}$	_		_	Option		_	Installed on machine head	-
F(foundation)	_	Option*	Installed on machine head*	_	_	_	_	-
M(knitted materials)	_	_	_	_	Installed on machine head	_	_	-
W (with large hook, heavy-weight materials)	_	_	_	_	_	_	Installed on machine head	-
BS (Bird's nest preventing / Shorter-thread remaining functions	Installed on machine head	_	_	_	_	Option	_	Option
BF (Bird's nest preventing / Shorter-thread remaining functions	_	Option	Installed on machine head		_	—	—	_

No. of work clamp foot	9	10	11	12	13	14	15	16	
	135719	955(asm.)	13561360(asm.)	14137509(Right) 14137608(Left)	40021871(Right) 40021872(Left)	40021874(Right) 40021875(Left)	40021877(Right) 40021878(Left)	40021880(Right) 40021881(Left)	
Work clamp foot			20			45	45	45 14 28 14 28	
	14116503 (without knurl)	14116909 (without knurl)	14116701 (without knurl)	14137707 (without knurl)	40021873 (with knurl)	40021876 (with knurl)	40021879 (with knurl)	40021882 (with knurl)	
Feed plate	²⁵ + ♀		22	16.6 · · ·	14.4		A A A	and a large state of the second state of the s	
BS (Bird's nest preventing / Shorter-thread remaining functions					40158195	40158196	40158196	40158196	
Finger guard*		1413	5305	I	26224204				
Application code	F	F	F	Н	S	S	S	S	
S (standard)	—	—	—	—	Option	Option	Option	Option	
$H \begin{pmatrix} heavy-weight \\ materials \end{pmatrix}$	_	_	_	_	_	_	-	_	
F (foundation)	Option*	Supplied with machine as accessory*	Option	Option	_	_	_	_	
M(knitted materials)	_	_	_	_	_	_	_	_	
W (with large hook, heavy-weight materials)				_	_		-		
BS (Bird's nest preventing / Shorter-thread remaining functions	_	_	_	_	Option	Option	Option	Option	
BF (Bird's nest preventing / Shorter-thread remaining functions)	Option	Supplied with machine as accessory*	Option	Option	_	_		_	

★ For the foundation type (F-type) sewing machine for the European market, the work clamp foot No. 2 is installed on the machine head and the work clamp foot No. 9 is supplied with the machine as an accessory (packed together) (note that the work clamp feet No. 3 and No. 10 are not supplied with the machine)

OPTION

Simple work clamp kit

Conventionally, the front plate has to be removed to change the work clamp. With the new work clamp kit, the work clamp can be changed without removing the plate.





*The work clamp cover plates

G



[Part No. M85205800A0] To connect the cable asm. to the electrical box, conversion cable (separately available) is necessary

• Pedal switch conversion cable asm. [Part No. M90125900A0]

IP-420U Operation panel provided with programmable functions



O Input and edit data while observing the needle-entry points visually. O The operator can easily check the shape of the pattern displayed on the wide liquid crystal panel. O Make minor adjustments to data quickly and efficiently. Overall use is easier than ever before.

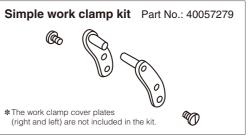
OThe memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. In addition to the Compact Flash card, the main body of the sewing machine is provided as standard with a USB connector. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), SM (Smart Media), FD (floppy disks) etc.) by means of a USB thumb device and a card reader.

* IP-420U should be ordered as a part. [IP-420U : 40144886]

for the LK-1900B Series



- O The lever for lifting the work clamp can be independently slid
- O The machine parts can be adjusted and replaced entirely by hand without screwdrivers or others tools. Changing parts is now a "clean-hands" procedure.



To connect the cable asm. to the electrical box, conversion cable (separately available) is necessary

Pedal switch conversion cable asm. [Part No. M90135900A0]

The IP-420U is a new operation panel configured with a "input function" not available in standard panel.

TABLE OF THE OPTIONAL PARTS

Part name	Туре	Part No.
	Without knurl/with plating Sewing area 20×40	14120109
Feed plate blank	With knurl/with plating Sewing area 20×40	14120307
	Without knurl/stainless steel* Sewing area 20×40	14120505
	Without knurl/with plating Sewing area 30×40	40021855
	Without knurl/without plating Sewing area 30×40	40021856
t=1.2	Without knurl/stainless steel* Sewing area 30×40	40021857
*Stainless steel t=0.5	With knurl/with plating Sewing area 30×40	40021858
	With knurl/without plating Sewing area 30×40	40021859
Work clamp foot face plate (asm.)	Face plate for presser blank	14121263
	With knurl/with plating (right) Sewing area 20×40	14121701
Presser blank	With knurl/with plating (left) Sewing area 20×40	14121800
	With knurl/with plating (right) Sewing area 30×40	40021851
	With knurl/with plating (left) Sewing area 30×40	40021852
t=3.2	With knurl/without plating (right) Sewing area 30×40	40021853
	With knurl/without plating (left) Sewing area 30×40	40021854
/ork clamp	With knurl/with plating (right)	40021869
	With knurl/with plating (left)	40021870
	A=1.6 B=2.6 With relief slit Standard type	B2426280000
Needle hole guide	A=1.6 B=2.0 Without relief slit F and M types	D2426282C00
	A=2.3 B=4.0 Without relief slit for heavy-weight material	14109607
øB øA	A=2.7 B=3.7 Without relief slit for extra heavy-weight material	D2426MMCK00
Finger guard (1)	A=56.5 B=64	13533104
B	A=59 B=74 For extra-large bartacking	13548300
Finger guard (2)	A=66.5 B=43 For lengthwise bartacking	13573407
Finger guard (3)	A=21.5 B=35.5 L=67 For lengthwise bartacking	14135305
Finger guard (4)	A=21.5 B=35.5 L=58.5 For specially ordered work clamp	14120000

Part name	Feature	
Silicon oil pipe	The silicon oil pipe are the parts which cool the heat of a needle.	
e	Туре	Part No.
(Constant)	Silicon oil pipe	40040910
	Rubber plug	TA1050504R0
	Oil felt	13501705
Co San	Silicon oil thread guide	B1127280000
(Maria	Screw 11/64 - 40 L5	SS4110515SP
	Silicon oil pouring hole	13501408

SPECIFICATIONS

	Model name	LK-1900B-SS	LK-1900B-HS	LK-1900B-FS	LK-1900B-MS	LK-1900B-WS			
\bigcirc	Application	Standard	For heavy-weight materials	For foundation	For knits and knitted materials	With large hook for heavy-weight materials			
	Max. sewing speed		3,200s	ti/min*		2,700sti/min*			
	Sewing area	30mm (L) × 40mm (W)							
	Stitch length		0.	1~10mm (0.1mm ste	p)				
	Needle bar stroke			41.2mm					
	Lift of the work clamp foot	Sta	andard 14mm (17mm	when the reverse-rot	ation needle-up functi	on)			
	Auto-lifter		Provided a	s standard (stepping	motor type)				
	Needle thread tension		Active tension (el	ectronic thread tension	on control system)				
	Needle (at the time of delivery)	DP×5 (#14)	DP×17 (#21)	DP×5 (#11)	DP×5 (#11)	DP×17 (#21)			
	Hook		Standard s	huttle hook		Large 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 (for up to	o 150 patterns, sewin	g data can be added.)			
	Enlarging/Reducing facility		20~200% (1% s can be done by i	step), Pattern enlarge ncreasing/decreasing	ement/reduction the stitch length				
	Memory method		Ir	nternal-organs memo	ry				
	Bobbin thread counter		Provided	as standard (up/down	n method)				
	Lubrication		Hook	minute-quantity lubri	cation				
\bigcirc	Lubricating oil		JUKI New Defr	ix Oil No.2 (equivaler	nt to ISO VG32)				
\bigcirc	Sewing machine motor		450W compact	AC servomotor (dire	ct-drive system)				
	Power consumption			250VA					
	Weight		Machine head (in	nclude motor) 42kg, 0	Control box 5.6kg				

Model name	Bird's nest Shorter-thread re	preventing / maining functions	Eyelet buttonhole bartacking machine	Belt-loop attaching machine		
	LK-1900B-BS	LK-1900B-BF	LK-1901B-SS	LK-1902B-SS	LK-1902B-HS	
Application	Standard	For foundation	Standard	Standard	For heavy-weigh materials	
Max. sewing speed	3,200s	ti/min*		3,000sti/min*		
Sewing area	30mm (L) ×	40mm (W)	3	30mm (L) × 40mm (W	<i>'</i>)	
Stitch length	0.1~10mm (0.1mm step)		0.1~10mm		
Needle bar stroke	41.2	mm		41.2mm		
Lift of the work clamp foot	Standar (by using the re needle-up fur	everse-rotation		Standard 14mm using the reverse-rota edle-up function 17m		
Auto-lifter	Provided a (stepping r			Provided as standard (stepping motor type)		
Needle thread tension	Active t (electronic thread ter		Active tension (electronic thread tension control mechanism)			
Needle (at the time of delivery)	DP×17 (#14)	DP×17 (#11)	DP×5 (#14)	DP×5 (#14)	DP×17 (#21)	
Hook	Standard s	huttle hook	Standard shuttle hook			
Number of stitches that can be stored in memory	Max. 20,00	00 stitches	Max. 20,000 stitches			
Applicable pattern number	50 pa	tterns	11, 12, 13	17, 18 (19, 20, 21, 22*) *This device has been factory-set to " invoking prohibited " status at the time of delive		
Number of data that can be input	200 patterns (for u sewing data c		200 patterns (for up to 150 patterns, sewing data can be added.)			
Enlarging/Reducing facility	20~200% Pattern enlargement/r by increasing/decrea	eduction can be done	Pattern e by incre	20~200% (1% ste enlargement/reduction easing/decreasing the	h can be done	
Memory method	Internal-orga	ans memory	lr	nternal-organs memor	ry	
Material drawing amount	-	_	Max. 3mm	-	_	
Bobbin thread counter	Provided as standar	d (up/down method)	Provided as standard (up/down method)			
Lubrication	Hook: minute-qu	antity lubrication	Hook:	minute-quantity lubri	cation	
Lubricating oil	JUKI New De (equivalent to			IUKI New Defrix Oil N equivalent to ISO VG		
Sewing machine motor	450W compact (direct-driv	AC servomotor ve system)	450W compact AC servomotor (direct-drive system)			
Power consumption	250	VA		250VA		
Weight	Machine head (inc Control b		Machine head (include motor) 42kg, Control box 5.6kg			
Air consumption	6 L/c	cycle		_		

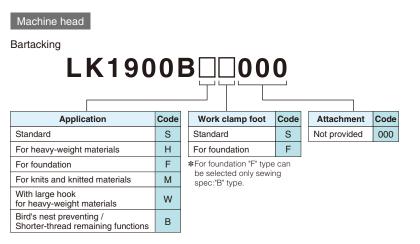
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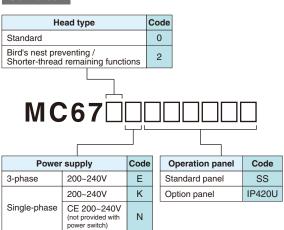
* "sti/min" stands for "Stiches per Minute"
CompactFlash™ or CFA specification compatible media.
* "CompactFlash™" is a registered trademark of SanDisk Corporation, U.S.A.
* Other company names and product names/brand names are trademarks or registered trademarks of the respective companies.

WHEN YOU PLACE ORDERS

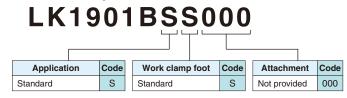
Please note when placing orders, that the model name should be written as follows:



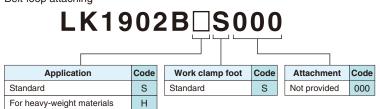
Control box



Eyelet buttonhole bartacking



Belt-loop attaching



• To order, please contact your nearest JUKI distributor.





Hegistered Organization: JON Concontration read Unice the Scope of the Registration: The activities of research, evelopment, design, sales, distribution, and maintenance ervices of industrial area of the same the same same nachines and industrial robots, etc., including sales and naintenance services of data entry systems.



2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN PHONE : (81) 42-357-2254 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.

* Head the instruction manual before putting the machine into service to ensure sati * This catalogue prints with environment-friendly soyink on recycle paper. Daines Sewing Machine 485 W 4800 S Murray, UT 84123 801.266.6401