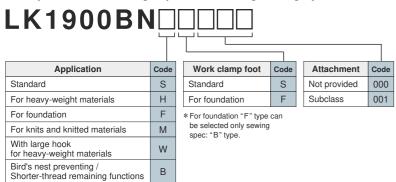
WHEN YOU PLACE ORDERS

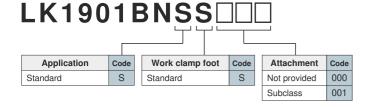
Please note when placing orders, that the model name should be written as follows:

Machine head

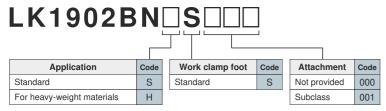
• Computer-controlled, High-speed, Bartacking Sewing System



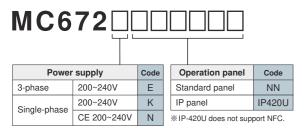
Eyelet buttonhole bartacking Sewing System



Belt-loop attaching Sewing System



Control box



● To order, please contact your nearest JUKI distributor.



For details of JUKI ECO PRODUCTS, refer to: https://www.iuki.co.ip/en/company/eco





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

DECEMBER, 2019 Printed in Japan(TN)



Computer-controlled, High-speed, Bartacking Sewing System



Inspire the Knowledge in Sewing Adjustment **Epoch-making Sewing Systems in history**



Computer-controlled, High-speed, Bartacking Sewing System

LK-1900BN Series



Machine is mounted with inbuilt NFC (Near Field Communication) and communication devices capable of a 2-way data transmission.

Standard panel

Management of sewing performance and sewing machine by the utilization of IoT (Internet of Things)

Management, browsing and editing of data can be carried out on the application software

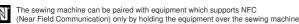
O Data on sewing machine adjustments made according to the product to be sewn can be transferred to a commercially-available Android tablet in contactless mode.

This enables quick check for uniform settings as well as confirmation of conditions of sewing machines in a sewing line, thereby facilitating setup changes.

The operation panel is also provided as standard with a USB port. Data management and software update can be carried out with ease using a USB thumb drive.

Data items of sewing can be numerically managed to ensure "stable quality" and "reduction in time required for setup changes". Quantified sewing data can be externally taken from the sewing machine using an Android tablet or USB thumb drive.

*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.





New



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-1900BNB, the standard no. of sewing patterns is 50.
- The LK-1900BN 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
- 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

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.
- 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 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.

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

- O The LK-1900BN 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.



(Bartacking pocket lip of suits)



(Attaching the shoulder straps to brassier) *Presser foot for vertical bartacking is supplied with the unit as an accessory.





M type (Bartacking shoulder of running shirt)



Computer-controlled, High-speed, Bartacking Sewing System

(Bird's nest preventing / Shorter-thread remaining functions)

LK-1900BNB

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



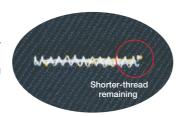
LK-1900BN-BS

The sewing machine eliminates so-called "bird's nests" (thread tangling in on the wrong side of the material at the beginning of sewing).

• 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."

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



Finishing of the Bird's nest preventing / shorter-thread remaining functions (on the wrong side)

Computer-controlled, High-speed, Bartacking Sewing System

LK-1900BN



The machine achieves sewing speed of 3,200 sti/min The machine's threadtrimming 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.

Eyelet buttonhole bartacking Sewing System

LK-1901BN





LK-1901BN-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 evelet buttonhole near to one another.
- The machine performs bartacking with the right and left parallel portions of the eyelet buttonhole drawn near to one another after the buttonhole 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.
- The machine sews the most optimally suited bartacks on eyelet buttonholes on the front bodies of garments and straight buttonholes that differ 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.

Belt-loop attaching Sewing System LK-1902BN





LK-1902BN-SS

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.

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

(101 boil 100p allaoriing)							
	Work clamp foot	Feed plate	Number of pattern				
Provided as standard LK-1902BN-SS LK-1902BN-HS	13544465	14143002	17 18				
Option For large size	13545660	13545504	19 20 21				
Option	13547161	13545801	22				
For extra large size	37 41.5	13547005	22				

^{*} A finger guard is included in the presser foot

STANDARD EQUIPMENT

LED Light

The LED light can adjust the light intensity to 5 levels, and Off setting is also possible.

The operator can set the brightness which is easy to work, improving work efficiency.



OPTION

Simple work clamp kit

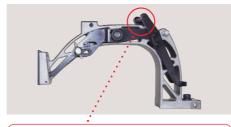
for the LK-1900BN Series

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.



- O The lever for lifting the work clamp can be independently slid back and forth.
- 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.





*The work clamp cover plates (right and left) are not included in the kit.

Foot pedal for standing work (optional)



2-pedal unit for standing work*

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



- **PK-57***
- Part No. GPK570010B0
 *To connect the cable asm.
 to the electrical box, conversion cable
 (separately available) is necessary.
- Pedal switch conversion cable asm.
 Part No. M90135900A0

Area expansion model

LK-1900BNSS000/X75024

This machine is a special model that expands the sewing area to 50mm (W) \times 50 (L) mm. It corresponds to the sewing size such as the elastic ape

connection of the boxer pants, the box sewing of the sleeve spread, and the attach the Velcro.

•The presser foot of this machine is equipped with the standard presser foot (40mm(W) × 30mm(L)). Please arrange the presser foot as necessary.



SPECIFICATIONS

Application	Standard					
Max. sewing speed	3,200sti/min*					
Sewing area	50mm (W) × 50mm (L)					
Stitch length	0.1~10mm (0.1mm step)					
Lift of the work clamp foot	Standard 14mm (17mm when the reverse-rotation needle-up function)					
*sti/min is the abbreviation for "	*sti/min is the abbreviation for "stitches per minute"					

Needle (at the time of delivery)	DP × 5 (#14)
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 150 patterns, sewing data can be added.)

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	Ç	50 51 8.32 8.32 8.32		04	33.4	40.5	97.7	4.5
	14116107	14116404	14116800	14116305	14116206	13548003	13554803	14116602
		(without knurl)	(without knurl)					
Feed plate	25	25	9.4	21.2	11.4	25 98 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	## ## P'S-	24
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 (heavy-weight)	_	_	_	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	_	_	_	_	_

		1		1			ı	
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	5.6	23 24.1	200	9 8 8 8 13.6	14 00	6,0	900	\$\frac{1}{8}\$
	14116503	14116909	14116701	14137707	40021873	40021876	40021879	40021882
	(without knurl)	(without knurl)	(without knurl)	(without knurl)	(with knurl)	(with knurl)	(with knurl)	(with knurl)
Feed plate	25 04	5.6	22	16.6	14.4	P.S.	O BEE	A STATE OF THE STA
BS (Bird's nest preventing / Shorter-thread remaining functions					40158195	40158196	40158196	40158196
Finger guard*		1413	14135305			2622	4204	
Application code	F	F	F	Н	S	S	S	S
S (standard)	_	_	_	_	Option	Option	Option	Option
H (heavy-weight)	_	_	_	_	_	_	_	_
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).
- * Install a finger guard suitable for each work clamp foot when replacing the work clamp foot.

TABLE OF THE STANDARD PATTERNS

	No.	Stitch diagram	Number of stitches	Length- wise wise	Cross- w) esise size	No. of work clamp foot
			0/			1
	(51)	************** *		2.0	16	2
	(- /					3
		~92 9 2 9 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				1
	2			2.0	10	2
			42			3
	3*	₩ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2.5	16	1
		8 8 8 8 8 8 8 8 8 8 8 8 8				4
		00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				6
	4*			3.0	24	7
						-
ng	5	**************************************		2.0	10	1 2
tacki		8		2.0	10	3
Large bartacking			28			1
Larg	6*			2.5	16	•
						4
		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$£				1
	7	ĬŶŶŶŶŶŶŶŶŶ		2.0	10	3
			36		16	
	8*	₹ ₩₩₩₩₩₩₩₩₩₩		2.5		1
		V V V V V V V V V V V V V V V V V V V				4
	de de	3.8				6
	9*	₩₩₩₩₩₩₩	56	3.0	24	7
	10*		64	3.0	24	6
		8188888888888888888				7
	11	**************************************	21	2.5	6	
5		8 8 8 88				
Small bartacking		aa o o o o o o o o o o o o o o o o o o				
bart	12		28	2.5	6	8
Small						
0,	13		36	2.5	6	
	13		30	2.5	0	
	14		14	2.0	8	
ing						
Large bartacking	4.5	N. Rost R	0,1	0.0		-
je ba	15		21	2.0	8	5
Larg						
	16		28	2.0	8	

			er of	Sewin (m	g size m)	work foot
	No.	Stitch diagram	Number stitches	Length- wise	Cross- wise	No. of work clamp foot
						1
	17		21	0	10	2
						3
						1
	18			0	10	2
			28			3
ng	19			0	25	6
artacki	13			0	25	7
Linear bartacking	20		36	0	25	6
5						7
	21		41	0	25	6
						7
	22		44	0	35	(Note 3)
	23	g My g g g g g g g g g g g g g g g g g g	28	20	4.0	
Lengthwise bartacking	24	(a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	36	20	4.0	9, 10
Lengthwise	25	(Bottom)	42	20	4.0	9, 10
	26	(Top)	56	20	4.0	
bu	27	(Top)	18	20	0	
Lengthwise linear bartacking	28	(Top)	21	10	0	11
ngthwise lin	29	(Top)		20	0	
ĭ	30	(Top)	28	20	0	

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.

	No.	Stitch diagram	Number of stitches	Length- wise (m	Cross- wise wise	No. of work clamp foot (Note 2)
	31		52	7	10	13
	32	₩₩₩	63	7	12	13
	33		24	6	10	13
bartacking	34		31	6	12	13
Semilunar bartacking	35		48	10	7	14
	36		48	10	7	14
bartacking	07	#11111111111111111111111111111111111111	00	0	0.4	6
Large size bartacking	37	1	90	3	24	7
Knit goods bartacking	38	PAAAAAAAAAAA A	28	2	8	5
ırtacking	39		28		12	
Round ba	Round bartacking			- ø12		16

			er of	Sewing size (mm)		work foot
	No.	Stitch diagram	Number of stitches	Length- wise	Cross- wise	No. of work clamp foot (Note 2)
	41	WWW WWW	29	20	2.5	
	42		39	25	2.5	
Lengthwise bartacking	43	BAAAAAAAAAA	45	25	2.5	12
Lengthwise	44	ዄ፟ጜ፟ጜጜኇኇኇኇኇኇኇዿ	58	30	2.5	12
	45	WARRANGER RESERVENCE	75	30	2.5	
	46	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	42	30	2.5	
	47		91			
Radial tacking	48		99	ø8		15
Radial	49		148	Ø		
	50		164			

TABLE OF THE OPTIONAL PARTS

Part name	Тур	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
B	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
Work clamp STORY	With knurl/with plating (right)	40021869	
100t Dial IX	With knurl/with plating (left)	40021870	
Needle hole guide	A=1.6 B=2.6 With relief slit Standa	B2426280000	
Needle Hole guide	A=1.6 B=2.0 Without relief slit F a	D2426282C00	
	A=2.3 B=4.0 Without relief slit for	14109607	
0D 0A	A=2.7 B=3.7 Without relief slit for	D2426MMCK00	
Finger guard (1)	A=56.5 B=64	13533104	
B B	A=59 B=74 For extra-large bartac	13548300	
Finger guard (2)	A=66.5 B=43 For lengthwise barta	13573407	
Finger guard (3)	A=21.5 B=35.5 L=67 For lengthwi	se bartacking	14135305
Finger guard (4)	A=21.5 B=35.5 L=58.5 For specia	14120000	

SPECIFICATIONS

Model name	LK-1900BN-SS	LK-1900BN-HS	LK-1900BN-FS	LK-1900BN-MS	LK-1900BN-WS
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		3	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-rota	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			step), Pattern enlarge increasing/decreasing		
Memory method		Ir	nternal-organs memor	ry	
Bobbin thread counter		Provided	as standard (up/dowr	n method)	
Lubrication		Hook	minute-quantity lubri	cation	
Lubricating oil		JUKI New Defr	ix Oil No.2 (equivaler	nt to ISO VG32)	
Sewing machine motor		450W compact	AC servomotor (direct	ct-drive system)	
Power consumption			250VA		·
Weight		Machine head (ii	nclude motor) 42kg, 0	Control box 5.6kg	

Model name	Bird's nest Shorter-thread re		Eyelet buttonhole bartacking machine			
	LK-1900BN-BS	LK-1900BN-BF	LK-1901BN-SS	LK-1902BN-SS	LK-1902BN-HS	
Application	Standard	For foundation	Standard	Standard	For heavy-weight materials	
Max. sewing speed	3,200s	ti/min*		3,000sti/min*		
Sewing area	30mm (L) ×	40mm (W)	3	30mm (L) × 40mm (W)	
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	Standard (by using the re needle-up fur	everse-rotation	(by t	Standard 14mm using the reverse-rotatedle-up function 17m	ition m)	
Auto-lifter	Provided a (stepping n			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 hool	(
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 delivery.		
Number of data that can be input	200 patterns (for u sewing data c	p to 150 patterns, an be added.)		terns (for up to 150 paying data can be adde		
Enlarging/Reducing facility	20~200% Pattern enlargement/r by increasing/decrea	eduction can be done		20~200% (1% ste enlargement/reduction easing/decreasing the	n can be done	
Memory method	Internal-orga	ans memory	Ir	nternal-organs memor	У	
Material drawing amount	_	_	Max. 3mm	_	_	
Bobbin thread counter	Provided as standar	d (up/down method)	Provided	as standard (up/dowr	n method)	
Lubrication	Hook: minute-qu	,	Hook:	minute-quantity lubri	cation	
Lubricating oil	JUKI New De (equivalent to		JUKI New Defrix Oil No.2 (equivalent to ISO VG32)			
Sewing machine motor	450W compact (direct-driv		450	OW compact AC serve (direct-drive system		
Power consumption	250	VA		250VA		
Weight		achine head (include motor) 42kg, Machine head (in Control box 5.6kg Control			head (include motor) 42kg, Control box 5.6kg	
Air consumption	6 L/c	cycle		_		

^{*} sti/min is the abbreviation for "stitches per minute"

* Other company names and product names/brand names are trademarks or registered trademarks of the respective companies.