

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









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* 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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Digital sewing system proposes the production process added with a computerized new value to all the people who engage in production.

Semi-dry head, 2-needle Lockstitch Sewing System

H-4500C Series

Active tension mechanism is adopted

Seam quality is improved by introducing the separately-driven right and left active tension mechanisms.

- The needle thread tension is automatically corrected according the sewing speed. Consistently seam quality is, therefore, achieved regardless of changes in sewing speed.
- The needle thread tension is automatically corrected according to the remaining amount of bobbin thread. Seam quality is, therefore, stabilized even when the remaining amount of bobbin thread has reduced.
- In the case of using the automatic needle thread tension correction feature according to the remaining amount of bobbin thread, the bobbin-thread change notification signal is provided to warn the operator when the remaining amount of bobbin thread has reduced to the predetermined level.

Active presser foot mechanism is adopted

Thanks to the adoption of the active presser foot, the presser foot pressure can now be corrected according to the sewing speed.

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%	150	130	120	100	R 150	130	120	10
100	•			_	•			
50				R				6
<u> </u>	200	1000	2000		200	1000	2000	





Multilayered portion detection device (only for the G type)

The sewing machine is provided as standard with the multilayered portion detection device. This device contributes to the realization of stable pitch / well-tensed seam when sewing the multilayered portion. Since the sewing correction can be respectively set the multilayered portion run-on portion and for the top of multilayered portion, stitch gathering at the multilayered portion can be improved.



Corner stitching capability has been improved (only for the LH-4588C)

Changeover from the normal stitching to the corner stitching is carried out semi-automatically using the lever while ensuring ease of operation. The operator only needs to input data on the needle gauge/stitching angle through the operation panel. Then, the operator can start the corner stitching only by operating the lever during sewing.

Thereafter, the sewing machine automatically changes the sewing mode between the normal stitching and the corner stitching.

This means that even the inexperienced operator can produce consistent seam quality while improving productivity.



Reduction of setup changing time

- A large hook of 1.8-fold capacity (as compared with the standard size hook) is adopted. As a result, frequency of thread changing is reduced in half. This is the world's first sewing machine not only for jeans and heavy-weight materials but also for foundation that is provided with a large hook. This sewing machine provides further stable seam quality.
- Motor-controlled horizontal feed is introduced. Stitch pitch can be set on the operation panel.
- Reduction in time required for adjustment of hook timing Hook timing adjustment is required in the case of changing the needle gauge. The time required for this adjustment is reduced. Adoption of the hook timing adjustment mode that can be activated by operating the operation panel as well as new hook driving shaft saddle achieves substantial reduction in workload required at the time of changing the needle gauge. Needle guard of the hook can be adjusted with screw with ease.







Hook driving shaft saddle

Change in needle gauge



JUKI

Needle guard adjustmen

Various digitalized functions



JUKI Smart APP allows you to send and confirm various data

In the application, there are items of management setting (terminal registration), sewing machine data (sewing data), problem-solution chart.

In the problem-solution chart, we can generate production graphs, the availability chart, etc. for each acquired sewing machine data so it can be used for checking the current situation and analyzing it.



*N-Mark is the trademark or registered registered mark of NFC Forum Inc. in the US and other countries.

Work environment

Operator fatigue reduction

For the LED hand light, the improved toning function with two additional colors (white / light bulb color) is provided. This LED hand light helps reduce the operator's eye fatigue who is engaged in sewing work for a long time.



Mixed color

White

Energy-saving effect

Automatic OFF function of the operation-panel backlight The operation-panel light can be turned OFF after a lapse of the preset time. can be automatically turned OFF. (The setting is from 1 to 20 minutes.)

Sleep mode (Automatic power-OFF function)

If no operation is carried out for a predetermined period of time, power supply such as motor can be turned off. (The setting is from 1 to 50 minutes.)

*These options can be set up on the operation panel.

Reduction in noise and vibration

Reduction in power consumption

Since the LH-4500C is provided with a compact AC servomotor, optimized presser foot lifting control method and the actuator with increased power efficiency, its power consumption is reduced by 30.8 % as compared with the LH-3500A. In addition, the power consumption during standby state is reduced by 50.8 % due to the operation panel screen on which display can be turned OFF.

Reduction in noise / vibration

Noise / vibration produced by the LH-4500C is reduced by various improvements such as the adoption of 1/2 opener system. The LH-4500C provides the work environment that helps reduce the operator's fatigue.





JUKI ECO PRODUCTS K1 which is stricter than other restrictions, such as those of the RoHS Directive. For details of JUKI ECO PRODUCTS, refer to: https://www.juki.co.jp/en/company/eco





Light bulb color



Bobbin case opening lever (open)



Bobbin case opening lever (close)



Conditions: 3,000 sti/min, Stitch length 3.0mm

The LH-4500C is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

• The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances,

*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 envir

Large hook (1.8-fold capacity hook) is adopted for attaching tape to foundation

A large hook (1.8-fold capacity hook) is adopted for the sewing machine for attaching tape to brassiere consumes a large amount of thread. This is the world's first brassiere sewing machine that comes with a large hook. As a result, the frequency of thread changing is reduced by approximately 40%, the work hours are reduced and the operator's fatigue is reduced. In addition, the bobbin thread remaining amount correction function of this machine contributes to more consistent seam quality.

Brassier tape attaching process

Type of hook	Large hook (1.8-fold capacity hook)	Regular hook
Amount of thread wound on a bobbin / time	108m	60m
Number of times of bobbin changing / day	11 times	19 times
Number of times of bobbin changing / month	550 times (two bobbins)	950 times (two bobbins)

*8 hours / day; 25 days /month; Replacing a bobbin requires approximately one minutes.

Tape attaching gauge LH-4578CFF: For foundation

The tape attaching gauge that is best-suited to the foundation tape attaching process is now available as a part. The standard model of sewing machine can be changed to the tape-attaching sewing machine by replacing the standard gauge with the aforementioned specific gauge. The tape attaching gauge is composed of the tape attaching throat plate, presser foot with guide and the bed slide.







Tape attaching throat plate This throat plate has a recess on the operator side

to help smoothly guide the tape to be attached. Part numbe

artmunio	01		
inch	mm	Tape attaching throat plate	Presser foot with guide
1/8	3.2	40232772	22647051
3/16	4.8	40232774	22647150
7/32	5.6	40232775	22647259
1/4	6.4	40221496	22647358

Bed slide (this side): Part number 23206709 The bed slide reduces the height when securing the tape attaching holder.

SPECIFICATIONS

Model name	LH-4578CFF	LH-4578CFG-7	LH-4588CFG-7			
Specification		Full digital				
Application	Foundation	Jeans and heavy-weight materials				
Corner stitching (Organized split needle bar mechanism)	Not pr	ovided	Provided			
Lubricating system	Semi-dry / Hook section: Minute-quantity lubrication (tank system)					
Feed system		Needle feed				
Max. sewing speed		3,000 sti/min*				
Max. stitch length	4mm	7mm				
Thread take-up lever		Slide type				
Needle bar stroke	33.4mm					
Needle thread tension	Independent right and left active tension mechanism					
Active presser foot	Provided					
Lift of the presser foot (max.)	13mm					
Multilayered portion detection	Not provided	Provided				
Knee lifter		Optional				
Reverse feed stitching lever	Not provided	Provided				
Needle	DP x 5 #10 (#9~#16)	DP x 5 #21 (#16~#23)				
Thread used	#80 - #30	#30 - #3 (for #8 - #3, bobbin thread count should be #20)				
Hook		Vertical-axis large hook (1.8 - fold)				
Free space under the arm	120 mm (height) x 266 mr	η (distance from machine arm to needle) χ 87	mm (height of the jaw section)			
Lubricating oil	JUKI	New Defri x Oil No.1 (Equivalent to ISC) VG7)			

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

WHEN YOU PLACE ORDERS

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



Needle gauge size

[O: A gauge designed for factory-installation at delivery. \triangle : A gauge available as a part.]

	Needle gauge		Seam application			
Code			LH-4578CF	LH-4578CF-7	LH-4588CF-7	
	inch	mm	F	G	G	
A	3/32	2.4				
В	1/8	3.2	Δ		Δ	
С	5/32	4.0			Δ	
D	3/16	4.8	Δ		Δ	
E	7/32	5.6	\bigtriangleup		Δ	
F	1/4	6.4	0	0	0	
G	9/32	7.1	Δ		Δ	
Н	5/16	7.9	Δ		Δ	
К	3/8	9.5			Δ	
W	7/16	11.1				
L	1/2	12.7			Δ	
М	5/8	15.9			Δ	
N	3/4	19.1			Δ	
Р	7/8	22.2			Δ	
Q	1	25.4			Δ	
R	1-1/8	28.6				
S	1-1/4	31.8		Δ		
Т	1-3/8	34.9				
U	1-1/2	38.1				

* Refer to the Parts List for details



• 0 B				
Nipp one-touch ty				
Nipper	One-touch type reverse feed	Code		
Not Provided	Provided	0B		

Nipp one-touch typ			
Nipper	One-touch type reverse feed	Co	de
Not Provided	Provided	0	в
Provided	Provided	N	в