

DP-2100

Computer-controlled, Dry-head, Lockstitch Sleeve Setting Machine with Multi-programming Device



DP-2100

An excellent new type belt feed mechanism

- Thanks to JUKI's unique right-and-left independent drive system of the top feed belt, right and left feed amounts can be adjusted separately. This prevents the material from slipping out of position, thereby sewing sleeves with a consistent seam allowance.
- The machine comes provided with a mechanism for moving the belt feed and intermediate presser up and down alternately, enabling it to eliminate tucks produced at the sleep cap as well as irregular puckering produced in the neighborhood of the sleeve cap.
- By introducing the belt feed, the machine reduces scratches to the material made by the feed.

The machine has solved the problems of conventional sleeve-attaching machines.

The introduction of active-tension enables the separate setting of suitable thread tensions for sewing sleeves on a portion-by-portion basis. This prevents an inadequate thread tension at a portion where the shirring amount is large or an excessive thread tension at a portion where the shirring amount is small. In addition, specified tension settings can be stored in the memory on a pattern-by-pattern basis and can be reproduced with ease.







Active tension mechanism

New type belt feed mechanism

Sewing & Textile machines and Parts
Colo panel, IP-420C, with upgraded operability

Since the machine comes with a touch-sensitive operation panel with a color LCD, data required for sewing, such as the shirring amount, needle thread tension and stitch pitch can be entered with ease.

• In addition to the CompactFlash TM, the machine is provided as standard with a USB connector. As a result, the use of a USB flash drive or card reader enables the storage and transmission of sewing data by means of various kinds of media (such as a floppy disk, SmartMedia, CompactFlash and SD card) to enable sewing using the same sewing data among sewing machines in a plant or among subcontract plants.

• The operating screen gives a graphic display of an armhole.
The operator can, therefore, easily confirm the portion to be sewn and enter/edit data.







IP-420C

Operation mode selection is enabled

The operation mode of a single machine can be changed over between manual, semi-auto and full-auto according to the ease of use for each operator.

Dry-head sleeve sewing machine

The DP-2100 is the world's first sleeve sewing machine that has adopted the dry-head technology, which does not need oiling. The machine protects the sleeve sewing process, which determines the quality of men's and ladies' garments, from troubles such as oil stains. No need for lubrication facilitates maintenance.

Highly-reliable direct-drive system

The machine comes with the direct-drive system, in which a compact AC servomotor is directly joined to the main shaft. It offers a quick startup, increased stopping accuracy and excellent responsiveness.

Increased lift of the presser foot

An increase in the lift of the presser foot facilitates placement of the material under the presser foot as well as the removal of a finished portion.



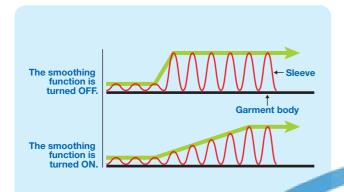
Stitch length is increased

The maximum stitch length has been increased to 6 mm. With this large stitch length, an adequate shirring amount is ensured even when a heavy-weight material is used.

Many different data input features help the machine perform high-quality sleeve settings quickly and accurately.

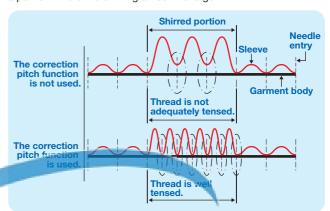
Smoothing function

The machine prevents an abrupt change in the shirring amount at the sewing-step changing point by utilizing a smoothing function. This upgrades the finished quality of the seams.



Correction pitch setting function

The stitch pitch can be changed on a portion-by-portion basis. Seam grinning can be prevented by decreasing the stitch length at a portion where the shirring amount is large.



The starting position of the shirting program can be changed.

It is possible to change the starting position of the program entered. This enables the armhole display snown on the LCD to bear a close resemblance to the armholes of actual sewing products.







After change



In addition, the machine comes provided with various data inputting features, such as teaching, grading and mirroring for the easy programming of sewing data and for improved operating efficiency.

Teaching function	Total sewing length is stored in the memory when sewing the portion between notch markes. This enables the quick and easy programming of sewing data.	
Grading function	When basic data is entered, the data is developed on a size-by-size basis. This helps save the operator from future program entering work	
Mirroring function	When a program for sewing either sleeve is entered, a program for sewing the remaining sleeve is automatically created. This helps save the operator from program entering work. It is also possible to incorporate a change made to either sleeve sewing program into the remaining sleeve program by means of the mirroring function.	

SPECIFICATIONS

Max. sewing speed *1 3,500sti/min (feed pitch 1.5~4.0mm) Feed system Intermittent belt feed with the direct-driven stepping motor Stitch length (both top and bottom) 1.5~6.0mm Needle bar stroke 30.7mm Needle DP×17 #10~#14 Thread take-up Link type Hook Horizontal-axis full-rotary non-lubricated hook Lift of the presser foot By hand: 5.5mm, Auto: 10mm Amount of the alternating vertical movement of the presser foot and walking foot Adjustment of amount of the alternating vertical movement of the presser foot and walking foot Bottom and variable top feed stitch adjusting method Bottom and variable top feed stitch adjusting method Minimum resolution of bottom and variable top feed adjustment Number of programs that can be input Number of steps that can be input (for one program) Lubrication No lubrication Needle thread tension Active tension (electric thread tension control system) Right and left alternating sewing Possible Auto-lifter Provided as standard Provided as standard Provided as standard Provided as standard				
Intermittent belt feed with the direct-driven stepping motor	Model name	DP-2100		
Stitch length (both top and bottom) Needle bar stroke Needle DPx17 #10~#14 Thread take-up Hook Lift of the presser foot Amount of the alternating vertical movement of the presser foot and walking foot Adjustment of amount of the alternating vertical movement of the presser foot and walking foot Bottom and variable top feed stitch adjusting method Minimum resolution of bottom and variable top feed adjustment Number of programs that can be input (for one program) Lubrication Needle thread tension Right and left alternating sewing Automatic reverse feed function Provided as standard Soft-start function Provided as standard	Max. sewing speed *1	3,500sti/min (feed pitch 1.5~4.0mm)		
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Automatic reverse feed function Provided as standard Soft-start function Provided as standard	Needle thread tension	Active tension (electric thread tension control system)		
Soft-start function Provided as standard	Right and left alternating sewing	Possible		
	Automatic reverse feed function	Provided as standard		
Auto-lifter Provided as standard	Soft-start function	Provided as standard		
	Auto-lifter	Provided as standard		
Power requirement / Power consumption Single-phase 200~240V, 3-phase 200~240V / 560VA		3-phase 200~240V / 560VA		



	Manual	
Operation mode	Semi-auto	
	Full-auto	
	Shirring amount	
Detailed data on steps stored in memory	Needle thread tension	
	Number of stitches	
	Stitch pitch	
Monitoring of shirring amounts and sewing positions		
Teaching function		
Grading function		
Mirroring function		
Program starting position changing		



The maximum sewing speed is limited by the amount of the alternating vertical movement of the walking foot and presser foot and stitch length.

Code

S

- **sti/min" stands for "Stitches per Minuro."

 *CompactFlash™ or CFA specification oc inpatible 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

WHEN YOU PLACE CRD note when placing orders, that the model name should be written as follows:

Control box

Machine head

Application

Standard

Total weight

Option	Code
Not provided	Z

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1	٧ <u>/</u>	Ц

Po	wer supply	Code	
3-phase	200~240V	Е	
Single-phase	200~240V	K	
Siligie-pilase	CE 230V	N	

Operation panel	Code
IP panel for DP-2100 (CompactFlash and) USB connector	IP420C

To order, please contact your nearest JUKI distributor.

OPTIONS

Table stand (not provided casters) : JTDP10

Auxiliary table : ST2







- JUKI CORPORATION HEAD OFFICE

 An environmental management system to promote and conduct the following:

 (i) Eco-fierdly (ii) Eco-fierdly (iii) Eco-fierdly (



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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.