

**JUKI®**

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

**DP-2100**

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The image features a white JUKI DP-2100 sleeve setting machine in the foreground. The machine is equipped with a multi-programming device screen that displays various settings and a circular diagram. The background consists of a blue fabric with a grid pattern and a white garment, possibly a shirt, with its sleeve being processed by the machine. The overall scene is set against a light blue background.

# Developed by the comprehensive technology of JUKI, the DP-2100 has been launched.

## 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.



New type belt feed mechanism



Alternating vertical movement mechanism



Active tension mechanism

## 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.

## Color panel, IP-200C, 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.
- Data can be saved and transferred by means of SmartMedia. As a result, sewing machines in a factory or in subcontracted factories are able to sew sleeves using the same data.
- 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.



SmartMedia



IP-200C

## 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

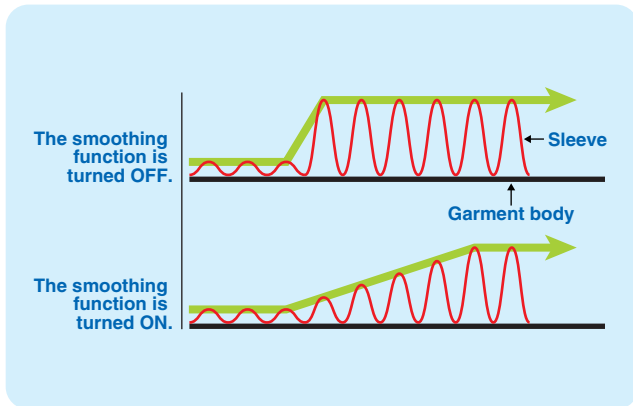
The maximum stitch length has been increased to 6 mm. With this large stitch length, an adequate shirring amount is ensured even when a heavy-weight material is used.

The DP-2100 is able to easily carry out sleeve-sewing processes, which are regarded as the most difficult, promising a higher finished-seam quality.

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

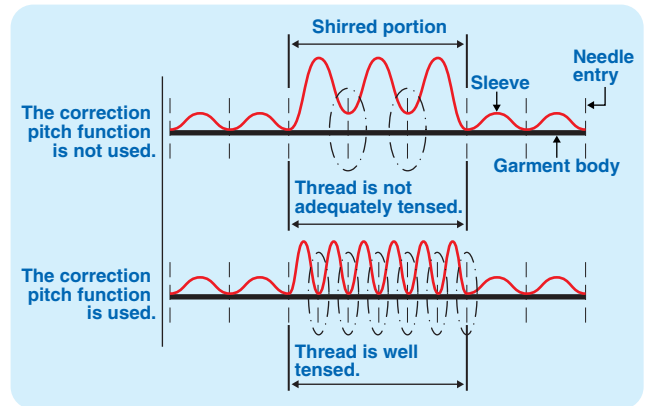
### Smoothing function

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 shirring program can be changed.

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



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.

<b>Teaching function</b>	Total sewing length is stored in the memory when sewing the portion between notch marks. This enables the quick and easy programming of sewing data.
<b>Grading function</b>	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
<b>Mirroring function</b>	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

Model name	DP-2100
Max. sewing speed *1	3,500rpm (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	DPX17 #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	Max. 3.5mm
Adjustment of amount of the alternating vertical movement of the presser foot and walking foot	Adjustment of stopping position in slot
Bottom and variable top feed stitch adjusting method	Data entry through the operation panel, stepping motor
Minimum resolution of bottom and variable top feed adjustment	0.1mm
Number of programs that can be input	99 programs
Number of steps that can be input (for one program)	30 steps
Lubrication	No lubrication
Needle thread tension	Active tension (electric thread tension control system)
Right and left alternating sewing	Possible
Automatic reverse feed function	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
Total weight	106kg

\*1 The maximum sewing speed is limited by the amount of the alternating vertical movement of the walking foot and presser foot and stitch length.

## Programming device performance

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



## WHEN YOU PLACE ORDERS

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

### ● Machine head

# DP2100SZ

Application	Code	Option	Code
Standard	S	Not provided	Z

### ● Control box

# MC650□PC

Power supply		Code	Operation panel	Code
3-phase	200~240V	E	IP-200C	PC
Single-phase	200~240V	K		
	200~240V (for CE)	N		

● To order, please contact your nearest JUKI distributor.

## OPTIONS

Table stand (not provided casters) : JTDP10

Auxiliary table : ST2



### JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct  
 ① the technological and technical research, the development and design of the products in which the environmental impact is considered,  
 ② the conservation of the energy and resources, and the recycling, in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.

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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 catalog is printed on recycle paper.