

1-needle, Bottom and Variable Top-feed, Lockstitch Machine with Automatic Thread Trimmer and Program Shirring Control Device

# DLU-5494N-7/IP-100C



• Stitch guide (H062) and separating plate (Z061) are optionally available.



DLU-5494N-7-WB/IP-100C

# With its microcomputer control, the machine achieves high-quality shirring with consistency.

# The machine enables even inexperienced operators to perform shirring operation smoothly and easily.

The microcomputer-controlled shirring mechanism allows even inexperienced operators to carry out shirring operations skillfully, producing high-quality products with consistency. While shirring, an operator can enter a program through the use of the teaching function, thereby duplicating a high-quality shirring operation performed program by a skilled operator.



Attach sleeve

# The best seam quality is produced by low-tension sewing.

Through a thoroughgoing study of the sewing mechanism to enhance the machine's ability to respond flexibly to diversified kinds of materials, the DLU-5494N-7 is now able to perform low-tension sewing with even higher precision and quality. The machine produces beautifully finished seams with consistency while preventing sewing troubles such as puckering and uneven material feed.



### Control box/ Compact servomotor unit

## SC-910/M91

Energy-saving and reduced vibration and noise have been achieved.



### **IT-supporting operation panel**

## **IP-100C**

Enhanced operability and operation efficiency help broaden its range of use.



# Higher lift of the presser foot and upgraded operability.

The lift of the presser foot is as high as 13mm. The top feed amount can be easily adjusted by operating the panel. The machine incorporates a built-in top-feed mechanism which simplifies the area around the presser foot, thus allowing the operator to easily place and handle a material on the machine. The machine can be operated as the operator wants.



# The thread trimmer cuts threads with high to low thread counts without fail.

Through the combined use of a moving knife and counter knife, the thread-trimming mechanism cuts thread with consistency. Any thread, ranging from high-to low-count thread, can be cut quickly without fail.



### Dramatically improved functions and performance.

- The number of shirring programs has been increased to 16 different patterns. In addition, a maximum of 999 different patterns can be stored in the memory by the use of SmartMedia in addition to the number of patterns stored in the main unit's memory.
- The number of shirring process steps has been increased to a maximum of eight. The number of stitches and shirring amount can be preset for each step to allow the number of process steps to be added or deleted.
- The process steps and shirring amounts are displayed on the IP-100C panel to offer improved operability.
- By the use of the smoothing function, abrupt changes which take place when changing over the process steps can be reduced to achieve upgraded seam quality.
- Once the data on one sleeve is programmed, the data for the other sleeve is automatically programmed by means of the mirroring function.
- The machine has been provided with an alternating sewing function, which works in such a way that once the machine performs thread trimming after completion of the sewing of one sleeve, it automatically starts the sewing of the other sleeve (according to the mirrored data).



When the machine changes over process steps from () to (2), a shirring (offset function) of 2mm is placed for the first stitch and the shirring amount is increased from the second stitch on in step by step increments of 0.2mm until it reaches a maximum of 6mm.

### TARGETED INDUSTRIAL APPLICATIONS AND PROCESSES

The machine is ready to be used for broader applications, such as men's wear, ladies' wear, jackets and baby clothes, increasing facility efficiency.



#### AN EXAMPLE OF INPUTTING A PROGRAM USING THE TEACHING FUNCTION

Teaching function: The function which enables setting the number of stitches using the number of stitches actually sewn. This enables the quick and easy programming of data.



# Auto-lifter AK85 (pedal-driven)

#### Stitch guide and Separating plate

Stitch guide	H062	Part No.: MAH062000A0
Separating plate	<b>Z061</b>	Part No.: MAZ061000A0

### SPECIFICATIONS

Model name	DLU-5494N-7/IP-100C	
Max. sewing speed	4,000rpm (normal 3,500rpm)	
Max. stitch length	5mm (normal feed), 3mm (reverse feed)	
Max. top-feed amount	8mm (top-feed amount varies depending on the type of gauge)	
Needle bar stroke	30.7mm	
Lift of the presser foot	By hand: 5.5mm, By knee: 13mm (max.)	
Needle (at the time of delivery)	DB × 1 (#14), For JE: 134 (Nm75)	
Hook	Automatic-lubricating full-rotary hook	
Lubrication	Automatic	
Lubricating oil	JUKI New Defrix Oil No.1 (equivalent to ISO VG7)	
Automatic reverse feed function	Provided as standard	
Power requirement	Single-phase 100 ~ 120V, 200 ~ 240V, 3-phase 200 ~ 240V	
Power consumption	Power rating 400VA	
Total weight	83kg	

#### Remaining bobbin thread detector AE-4 Part No.: GAE-040000A0

When the amount of remaining bobbin thread reaches the setting, the buzzer will sound to warn the operator not to press on the front part of the foot pedal. With this function, the operator doesn't have to look away from the sewing work to check the bobbin thread.

PROGRAMMING DEVICE PERFORMANCE

#### **Function/Performance** SC-910/IP-100C Manual Possible Input mode Possible Teaching Main unit's 16 patterns Max. number of programs SmartMedia Max. 999 patterns Max. 8 steps Number of steps Addition and deletion of steps Possible $0 \sim 8.0 \text{mm}$ Shirring amount (in increments of 0.1mm) Detailed data on steps stored 1~500 stitches in memory Number of stitches ("0" means that the number of stitches is infinite.) On-screen indication of stitch shape Possible Possible Effective between each of the Smoothing function two process steps. Possible Shirring amount for one stitch is set 0~8.0mm (in increments of 0.1mm) Ratio of the shirring amount to the Possible preset shirring amount to be placed Indications on the panel Value: 1 ~ 9 (10% ~ 50%) for the first stitch is set Mirroring function (inversion of data) Possible Alternating sewing Possible

### WHEN YOU PLACE ORDERS

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



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.
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