

JUKI

DLU-5494N-7/IT-100A

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

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

● Stitcn guide (H062) and separating plate (Z061) are optionally available.

VIET LE CO., LTD.
Sewing & Textile machines and Parts.

HOTLINE: 0982 085 899

DLU-5494N-7-WB/IT-100A

DLU-5494N-7

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

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

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

The digital-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.

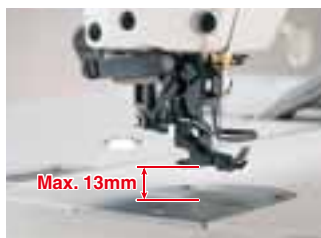
The best seam quality is produced by low-tension sewing.

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.



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.



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● Attach sleeve

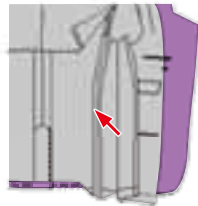
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TARGETED INDUSTRIAL APPLICATIONS AND PROCESSES

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

MEN'S AND LADIES' JACKETS

Seam side

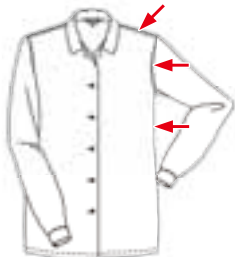


Join shoulder



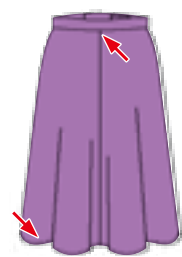
BLOUSES

Seam side/Join shoulder/
Attach sleeve



SKIRTS

Topstitch waistband/
Hem bottom



BABY CLOTHES

Gathering



Targeted industrial applications

- Men's and ladies' suits
- Blazer coats
- Coats
- Blouses
- Slacks
- Skirts
- Baby clothes
- Men's shirts
- Blouses
- Dresses
- One-piece dresses
- Sportswear
- Sweaters
- Others

Processes

- 1) Runstitching process
Runstitch front edge, join shoulder, sew center of back, seam side, attach sleeve, etc.
- 2) Topstitching process
Topstitch front edge, topstitch sleeve cuff, topstitch collar, topstitch waistband, etc.
- 3) Gathering process
Attach yoke, attach cuff, join top and bottom, etc.
- 4) Sewing process with attachment used in combination with the machine
Hem bottom, piping, binding, etc.
- 5) Others
Zipper-attachment process, blind-stitching process, sewing processes in which different materials are used in combination, etc.

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 USB Memory 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 IT-100A 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).

Input example of the smoothing function

Conditions

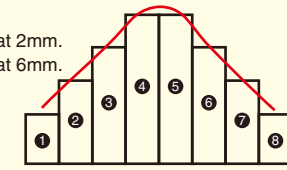
Step ① : Shirring amount set at 2mm.

Step ② : Shirring amount set at 6mm.

(Difference in the shirring amount between process step ① and ② is 4mm.)

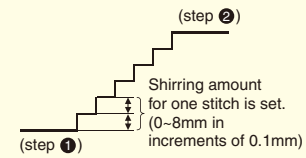
Smoothing amount: 0.2mm

Offset set value: 9 (50%)



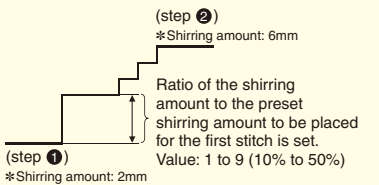
*As many as eight different process steps can be set.
*Shirring amount/the number of stitches can be set on a step-by-step basis.

Smoothing amount (shirring amount)



*As many as eight different process steps can be set.
*Shirring amount/the number of stitches can be set on a step-by-step basis.

Smoothing offset



*As many as eight different process steps can be set.
*Shirring amount/the number of stitches can be set on a step-by-step basis.

When the machine changes over process steps from ① 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.

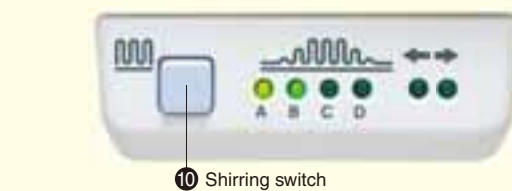
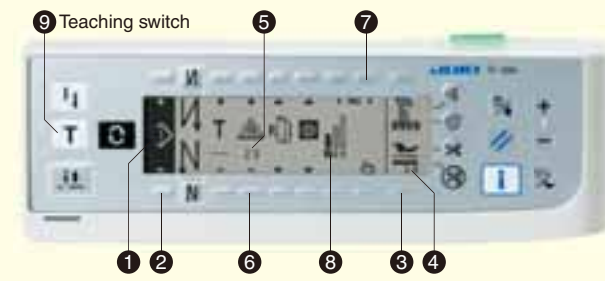
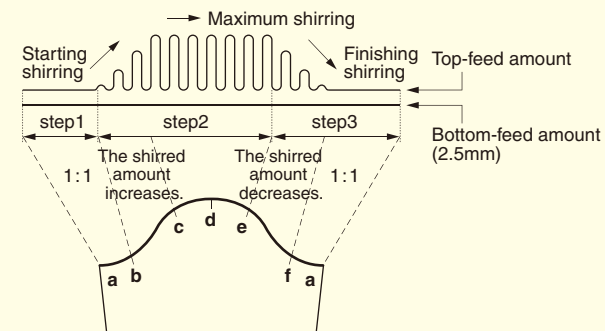
AN EXAMPLE OF INPUTTING A PROGRAM USING THE TEACHING FUNCTION

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.

Example process: Attach sleeve

Input example

- Section from a to b Step 1 (top feed amount 2.5mm)
The number of stitches for the step 1 is to be determined.
- Section from b to e Step 2 (section of changeover of shirring + Top feed amount 5.0mm)
The number of stitches for the step 2 is to be determined.
- Section from e to a Step 3 (top-feed amount 2.5mm)
The number of stitches for the step 3 is to be determined.



Inputting method

- Press Pattern selector switch ② to select a desired pattern. (①)
- Press Pitch indication changeover switch ③ to select the pitch indication.
- Set the stitch pitch at 2.5mm (④) using the Stitch Dial.
- Set the number of steps ⑤ at 3.
- Operate ⑥ to set ⑥ at 2.5(mm) for step 1.
- Advance the step using the Step changeover switch ⑦. (⑧)
- Operate ⑥ to set ⑥ at 5.0(mm) for step 2.
- Advance the step using the Step changeover switch ⑦. (⑨)
- Operate ⑥ to set ⑥ at 5.0(mm) for step 3.
- Return the step using the Step changeover switch ⑦. (⑩)
- Press the Teaching switch ⑨.
- Start sewing. (step 1)
- When notch b, which represents the starting point of shirring is reached, press the Shirring switch ⑩.
- Pull the top cloth (sleeve) while aligning the notches until notch e is reached. (step 2)
- Press the Shirring switch ⑩.
- Pull the top cloth (sleeve) while aligning the notches until notch a is reached. (step 3)
- Carry out thread trimming.

