

**JUKI**

**DLU-5490N**

**DLU-5490N-7** (with automatic thread trimmer)

1-needle, Bottom and Variable Top-feed Lockstitch Machine



DLU-5490N-7-WB/CP-18A

**DLU-5490N Series**

1-needle, Bottom and Variable Top-feed Lockstitch Machine

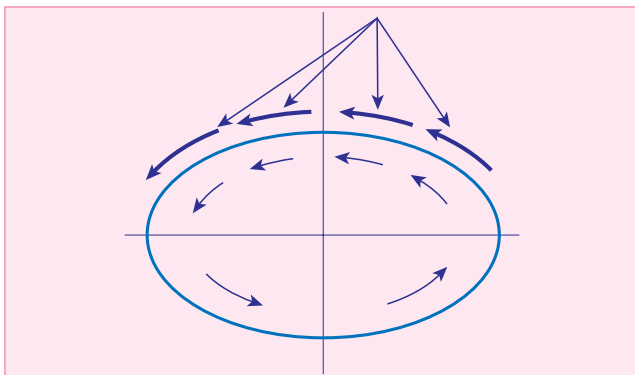
With its bottom and variable top-feed mechanism, the machine widely adapts to diversified applications and helps promote the production of upgraded-quality products while increasing efficiency.



DLU-5490N

### Ideally balanced top feed and bottom feed.

The top feed motion ideally synchronized with the bottom feed motion to uniformly feed the upper and lower cloths, assuring attractive stitches and uniform gathering stitches. This leads to a higher value of finished products.



### Sure thread trimming mechanism.

The machine comes with a thread trimming mechanism that performs speedy and sure thread trimming to achieve highly efficient sewing work.



### The durability of the walking foot has been dramatically improved.

The walking foot provides stable feed at all times, assuring high quality. It also eliminates the need for proficiency.



### The maximum top feed amount is 8mm.

The top feed amount has been increased to assure stable gathering stitches.



### Higher lift of the presser foot.

The large lift of the presser foot enables the operator to easily set or remove materials and sew overlapping sections without any difficulty.



## OPTIONS (With its full array of options, the machine further increases productivity.)

### ● Auto-lifter AK85 (pedal-driven)



### ● Partial shirring device PF-6

The partial shirring device permits very easy shirring.

### ● Micro-lifter Part No.: 112-43763

This device can be installed on the back of the faceplate. It is very convenient for frequent use.

### ● Material edge sensor ED-2

When the sensor detects a material edge, it immediately stops the sewing machine and actuates the thread trimmer. This enhances productivity by allowing the operator to conduct sewing work without running to look out for missing stitches.



## Newly developed control box/Compact-size servomotor

### SC-920C/M92

■ The new model control box, which energy-saving mode is provided.

The new model control box SC-920C has been newly developed. The control box is resistant to voltage fluctuations, noise and vibration.

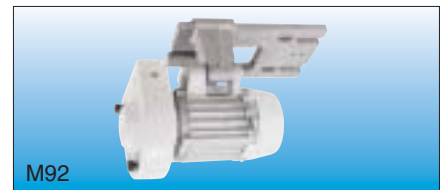
The new model control box is provided with an energy-saving mode for the first time in a control box for sewing machines.

It reduces power consumption during standby time when the motor is not rotating by approximately 25% (in comparison with the SC-910N).

In addition, the current DLU-5490N-7 is lavished with the latest energy-saving technologies, including the adoption of the latest compact servomotor M92, to be more friendly to the environment, as well as to provide the power reducing effect and to increase productivity.



SC-920C



M92

## The operation panel can be selected according to the process.

### CP-18A, CP-180A

■ Two different operation panels, the CP-18A and CP-180A are applicable to the DLU-5490N-7. Both operation panels are provided with the production support function.

The production support function actually consists of three different functions (six different modes)

#### 1. Output control function

① Target No. of products display mode

② Target-actual result difference display mode

#### 2. Operation measuring function

① Sewing machine availability display mode

② Pitch time display mode

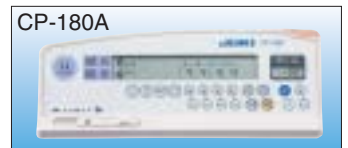
③ Average speed of stitch display mode

#### 3. Bobbin counter function

① Bobbin counter display mode



CP-18A



CP-180A

#### Function comparison table between CP-18A and CP-180A

Main function	CP-18A	CP-180A
Production support function	○	○
Automatic reverse-feed stitching (performed at start/end of sewing; selectable)	0 to 15 stitches	0 to 19 stitches
Double reverse-feed stitching (performed at start/end of sewing; selectable)	0 to 15 stitches	0 to 19 stitches
Constant-dimension sewing (performed at start/end of sewing; selectable)	—	0 to 500 stitches, 0 to 19 stitches
Rectangular stitching (performed at start/end of sewing; selectable)	—	0 to 99 stitches, 0 to 19 stitches
Multi-layer stitching	0 to 15 stitches, 0 to 9 times	0 to 19 stitches, 0 to 9 times
Bobbin thread counter display (10/15/20 stitches/count; selectable according to the internal setting, max. 9999)	○	○
Needle up/down correction (1 stitch stroke or needle up/down according to the internal setting) (changeable between "up → down" and "down → up")	—	○
Automatic sewing (selectable between constant-dimension sewing and rectangular sewing)	—	○
Max. sewing speed control dial	—	○
Display of the number of revolution of sewing machine (combined with the SC920)	○	○

## SPECIFICATIONS

Model name	DLU-5490N	DLU-5490N-7
Max. sewing speed	4,500sti/min*	
Max. stitch length	5mm	
Max. top-feed amount	8mm	
Needle bar stroke	30.7mm	
Lift of the presser foot	By hand: 5.5mm, By knee: 13mm	
Needle (at the time of delivery)	DB×1 (#14), For JE: 134 (Nm90)	
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	—	650VA
Weight	Machine head: 30kg	Total weight: 83kg

\* "sti/min" stands for "Stitches per Minute"

## WHEN YOU PLACE ORDERS

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

### ● DLU-5490N series (without automatic thread trimmer)

Machine head **DLU5490N** 

Application	Code
For medium-weight materials	<b>BB</b>
To prevent it from catching materials	<b>CG</b>
For sewing sharp curves	<b>D</b>

### ● DLU-5490N-7 series (with automatic thread trimmer)

Machine head **DLU5490N**  **7**       

Application	Code	Wiper and automatic reverse feed function			Auto-lifter (optional)	Code
For medium-weight materials	<b>BB</b>	<b>Wiper</b>	<b>Automatic reverse feed function</b>	<b>Code</b>	Not provided	
To prevent it from catching materials	<b>CG</b>	Not provided	Provided	<b>0B</b>	Provided (AK85)	<b>AK85</b>
For sewing sharp curves	<b>D</b>	Provided	Provided	<b>WB</b>	Provided (PF6)	<b>/PF6</b>
					Provided (AK85/PF6)	<b>AK85/PF6</b>

Control box **SC920C** 

Power supply				Code
For JA (LA)*	Single-phase	100~120V	PFL	<b>S</b>
For JA*, General Export	3-phase	200~240V	PFL	<b>D</b>
For General Export	Single-phase	200~240V	PFL	<b>K</b>
For EU (CE)	Single-phase	200~240V	PFL	<b>N</b>
For China	Single-phase	200~240V	PFL	<b>U</b>

\* JA: North America and Central and South America

Motor

**M92**

Operation panel

**CP-18A**  
**CP-180A**

● To order, please contact your nearest JUKI distributor.



Registered Organization : JUKI CORPORATION Head Office  
The Scope of the Registration : The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

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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 soy ink on recycle paper.