# 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

## 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.
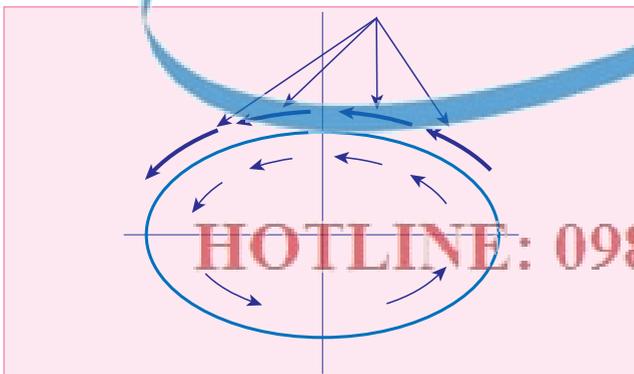
## Ideally balanced top feed and bottom feed.

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.

## The maximum top feed amount is 8mm.

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

## 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.

## 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.

Max. 13mm

● **Auto-lifter  AK85**
  **(pedal-driven)**

● **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.

● **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.

## 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 theenvironment, 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
   ①Target No. of products display mode
   ②Target-actual result difference display mode
2. Operation measuring function
   ①Sewing machine availability display mode
   ②Pitch time display mode
   ③Average speed of stitch display mode
3. Bobbin counter function
   ①Bobbin 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 | BB |
| To prevent it from catching materials | CG |
| For sewing sharp curves | D |

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

Machine head  **DLU5490N**☐☐**-7**☐☐☐☐☐**/**☐☐☐

| Application | Code |
|---|---|
| For medium-weight materials | BB |
| To prevent it from catching materials | CG |
| For sewing sharp curves | D |

| Wiper and automatic reverse feed function | | |
|---|---|---|
| Wiper | Automatic reverse feed function | Code |
| Not provided | Provided | 0B |
| Provided | Provided | WB |

| Auto-lifter (optional) | Code |
|---|---|
| Not provided | |
| Provided (AK85) | AK85 |
| Provided (PF6) | /PF6 |
| Provided (AK85/PF6) | AK85/PF6 |

Control box  **SC920**☐☐

Motor  **M92**

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

＊JA: North America and Central and South America

Operation panel  **CP-18A**  **CP-180A**

● To order, please contact your nearest JUKI distributor.

＊ 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.