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

To retrofit the AE-4 to your existing machine, I/O unit A (part number: 400-06080), which is separately available, is required.

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 motor unit

SC-910/M91

• SC-910 model control box is resistant to voltage fluctuations. It comes with a compact and energy-saving type switching power supply system that does not use a transformer. This contributes to improved reliability.
• The M91 model compact motor unit featuring low vibration and low noise capabilities is installed on the control box.
• The number of revolutions can be selected from among three different types (standard, slow and fast) according to the preference of the operator. In addition to this feature, the control box incorporates many different functions for upgraded workability.

The operation panel can be selected according to the process.

IP-100C

• The operation panel has been provided with a large user-friendly LCD. A pictograph and set values are shown on the same screen, which promises improved operability of the panel.
• The operation panel has been provided with a variety of communication and maintenance control features and is able to store data on a SmartMedia or personal computer.
• The features of the operation panel can be updated without the need for changing the PWB/ROM.

CP-160A

• Pattern sewing can be performed by the number of stitch control feature.
• Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching.
  The maximum number of stitches that can be set for automatic reverse stitching (single or double) is 19.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>DLU-5490N</th>
<th>DLU-5490N-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. sewing speed</td>
<td>4,500rpm</td>
<td></td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>5mm</td>
<td></td>
</tr>
<tr>
<td>Max. top-feed amount</td>
<td>8mm</td>
<td></td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>30.7mm</td>
<td></td>
</tr>
<tr>
<td>Lift of the presser foot</td>
<td>By hand: 5.5mm, By knee: 13mm</td>
<td></td>
</tr>
<tr>
<td>Needle (at the time of delivery)</td>
<td>DB 1 (14), For JE: 134 (Nm90)</td>
<td></td>
</tr>
<tr>
<td>Hook</td>
<td>Automatic-lubricating full-rotary hook</td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Automatic</td>
<td></td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>JUKI New Defrix Oil No.1 (equivalent to ISO VG7)</td>
<td>Provided as standard</td>
</tr>
<tr>
<td>Automatic reverse feed function</td>
<td>—</td>
<td>Provided</td>
</tr>
<tr>
<td>Power requirement</td>
<td>—</td>
<td>Single-phase 100—120V, 200—240V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>—</td>
<td>3-phase 200—240V</td>
</tr>
<tr>
<td>Weight</td>
<td>Machine head: 30kg</td>
<td>Total weight: 83kg</td>
</tr>
</tbody>
</table>

### WHEN YOU PLACE ORDERS

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

![Diagram showing application codes and motor codes]

- **Application Codes**
  - For light-weight materials: BA
  - For medium-weight materials: BB
  - For heavy-weight materials: BC
  - For edge welt seam topstitching: C
  - To prevent it from catching materials: CG
  - For sewing sharp curves: D
  - For elastic materials: E
  - For setting zipper (right): J
  - For binding: L
  - For bottom hemming: M
  - For piping: N
  - For zipper attaching (left): P
  - For preventing puckering: S

- **Auto-lifter (optional) Codes**
  - Not provided
  - Provided (AK85)

- **Motor for SC Code**
  - SC910
  - M91S

- **Control box Code**
  - Standard
  - Provided with built-in I/O board

- **Operation panel Codes**
  - IP-100C
  - CP-160A

- **PSC box Codes**
  - Single-phase 100—120V
  - Single-phase 200—240V

- **Pulley belt Code**
  - Standard

### Note
- When using the gauges L, M & N, attach them to the binder, etc.
- Since the prices are separate, please ask us of them.
- Various gauges other than those shown are also available.

### PSC box

<table>
<thead>
<tr>
<th>JUS (LA)*</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase 100—120V</td>
<td>PFL</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>For General Export</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase 200—240V</td>
<td>PFL</td>
</tr>
</tbody>
</table>

### Operation panel

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP100C</td>
</tr>
<tr>
<td>CP160A</td>
</tr>
</tbody>
</table>

### Control box

- Standard
- Provided with built-in I/O board

### Motor for SC

- SC910
- M91S

### Pulley belt

- Standard

* JUS: North America and Central and South America

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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.**