DLN-5410N
DLN-5410N-7 (with automatic thread trimmer)

1-needle, Needle-feed, Lockstitch Machine

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>DLN-5410N</th>
<th>DLN-5410N-7</th>
<th>DLN-5410N-7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>For light to medium-weight materials</td>
<td>For heavy-weight materials</td>
<td>For heavy-weight materials (long stitch length type)</td>
</tr>
<tr>
<td><strong>Max. sewing speed</strong></td>
<td>6,000st/min.</td>
<td>4,000st/min.</td>
<td>3,000st/min.</td>
</tr>
<tr>
<td><strong>Max. stitch length</strong></td>
<td>6mm</td>
<td>4.5mm</td>
<td>4mm</td>
</tr>
<tr>
<td><strong>Needle bar stroke</strong></td>
<td>4mm</td>
<td>4.5mm</td>
<td>6mm</td>
</tr>
<tr>
<td><strong>Lift of the presser foot</strong></td>
<td>30.7mm</td>
<td>By hand: 5.6mm, By lever: 13mm</td>
<td>33mm</td>
</tr>
<tr>
<td><strong>Needle</strong></td>
<td>DB x 1 (J4)</td>
<td>DB x 1 (J4)</td>
<td>DB x 1 (P2)</td>
</tr>
<tr>
<td><strong>(at the time of delivery)</strong></td>
<td>For JE: 134 (Nn10)</td>
<td>For JE: 134 (Nn130)</td>
<td>For JE: 134 (Nn130)</td>
</tr>
<tr>
<td><strong>Hook</strong></td>
<td>Automatic-lubricating sley hook</td>
<td>Automatic-lubricating sley hook</td>
<td>Automatic-lubricating sley hook</td>
</tr>
<tr>
<td><strong>Lubrication oil</strong></td>
<td>JUKI Rapid Oil No.1 (equivalent to ISO VG22)</td>
<td>JUKI Rapid Oil No.1 (equivalent to ISO VG22)</td>
<td>JUKI Rapid Oil No.1 (equivalent to ISO VG22)</td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td>J30—AR Ble: 69.2, Nn60—30.2</td>
<td>J30—AR Ble: 69.2, Nn60—30.2</td>
<td>J30—AR Ble: 69.2, Nn60—30.2</td>
</tr>
<tr>
<td><strong>Automatic reverse feed function</strong></td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>Singlephase 100—120V 200—240V 5-phase 200—240V</td>
<td>Singlephase 100—120V 200—240V 5-phase 200—240V</td>
<td>Singlephase 100—120V 200—240V 5-phase 200—240V</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>650VA</td>
<td>650VA</td>
<td>650VA</td>
</tr>
<tr>
<td><strong>Total weight</strong></td>
<td>8.9kg</td>
<td>8.9kg</td>
<td>8.9kg</td>
</tr>
</tbody>
</table>

*1 st/min: stands for 'Stitches per Minute'

**WHEN YOU PLACE ORDERS**

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

**DLN5410N**

**DLN5410N-7**

**SC920C**

**M92**

**OPERATION PANEL**

- **FOR 220-VOLT**
  - For 220-Volt
    - Single-phase: 220—240V PCL
    - Single-phase: 220—240V PCL
    - Single-phase: 220—240V PCL

**FOR 120-VOLT**

- For 120-Volt
  - Single-phase: 220—240V PCL
  - Single-phase: 220—240V PCL

- **FOR CHINA**
  - Single-phase: 220—240V PCL

- **FOR JAPAN**
  - Single-phase: 220—240V PCL

- **FOR UNITED STATES OF AMERICA**
  - Single-phase: 220—240V PCL

- **FOR TAIWAN**
  - Single-phase: 220—240V PCL

- **FOR BRAZIL**
  - Single-phase: 220—240V PCL

- **FOR AUSTRALIA**
  - Single-phase: 220—240V PCL

- **FOR SOUTH KOREA**
  - Single-phase: 220—240V PCL

- **FOR HONG KONG**
  - Single-phase: 220—240V PCL

- **FOR PHILIPPINES**
  - Single-phase: 220—240V PCL

- **FOR THAILAND**
  - Single-phase: 220—240V PCL

- **FOR MALAYSIA**
  - Single-phase: 220—240V PCL

- **FOR SINGAPORE**
  - Single-phase: 220—240V PCL

- **FOR VIETNAM**
  - Single-phase: 220—240V PCL

- **FOR INDONESIA**
  - Single-phase: 220—240V PCL

- **FOR MYANMAR**
  - Single-phase: 220—240V PCL

- **FOR VIETNAM**
  - Single-phase: 220—240V PCL

- **FOR THAILAND**
  - Single-phase: 220—240V PCL

- **FOR SINGAPORE**
  - Single-phase: 220—240V PCL

- **FOR VIETNAM**
  - Single-phase: 220—240V PCL

- **FOR THAILAND**
  - Single-phase: 220—240V PCL

- **FOR SINGAPORE**
  - Single-phase: 220—240V PCL

- **FOR VIETNAM**
  - Single-phase: 220—240V PCL
With its needle feed mechanism, the machine supports the operator, promotes efficiency in production, and upgrades the quality of finished products.

Sure thread trimming mechanism.

The moving knives have been designed so that it can be easily replaced, thus facilitating machine maintenance.

Sewing mechanism that demonstrates outstanding responsiveness to materials to be sewn.

The machine head has been redesigned to improve the performance of each component. Thanks to the machine’s low-tension sewing capability and the adjustment function for the needle feed amount (±15%), uneven material feeding and puckering rarely occur, thus enhancing the machine’s ability to respond to any change in the material to be sewn. The optimally balanced design of the machine head and the stronger frame structure significantly reduce machine vibration and noise while the machine is being operated.

Higher lift of the presser foot.

This machine is equipped with various devices that reduce the operator’s fatigue and allow the operator to easily operate the machine. These devices include the following: The foot pedal needs only light pressure to be operated. The presser foot can be lifted as high as 13mm. The shape of the machine arm has been designed to allow the operator to handle any material with ease.

Durability and reliability of the machine are improved.

It is designed to reinforce the feed components, lubrication components, and frame, and to seal hermetically the needle bar frame. As a result, durability and reliability of the machine are improved and economical efficiency will be remarkably enhanced.

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

- Auto-lifter AX85 (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.
- Micro-lifter Part No.: 1124-3763
  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 DUN-5410N-7 is leveled 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.

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 DUN-5410N-7. Both 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 display mode

2. Operation measuring function
   1. Sewing machine availability display mode
   2. Pitch time display mode
   3. Average speed of stitch display mode
   4. Bobbin counter function
   5. Bobbin counter display mode

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

<table>
<thead>
<tr>
<th>Function</th>
<th>CP-18A</th>
<th>CP-180A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production support function</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic reverse-feed stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 15 stitches</td>
</tr>
<tr>
<td>Double reverse-feed stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 15 stitches</td>
</tr>
<tr>
<td>Constant-speed sewing</td>
<td>0 to 100 stitches</td>
<td>0 to 100 stitches</td>
</tr>
<tr>
<td>Automatic reverse-feed stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 15 stitches</td>
</tr>
<tr>
<td>Multi-layer stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 15 stitches</td>
</tr>
<tr>
<td>Bobbin counter display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine availability display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pitch time display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average speed of stitch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobbin counter display</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
With its needle feed mechanism, the machine supports the operator, promotes efficiency in production, and upgrades the quality of finished products.

Sure thread trimming mechanism.
The moving knife has been designed so that it can be easily replaced, thus facilitating machine maintenance.

Sewing mechanism that demonstrates outstanding responsiveness to materials to be sewn.
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Durability and reliability of the machine are improved.
It is designed to reinforce the feed components, lubrication components, and frame, and to seal hermetically the needle bar frame. As a result, durability and reliability of the machine are improved and economical efficiency will be remarkably enhanced.

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

- **Auto-tilter AX15S (pedal)-driven**
- **Material edge sensor ED-2**
- **Micro-lifter Part No.: 1124-3763**

Newly developed control box/Compact-size servomotor

**SC-920C/M92**
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- The new model control box SC-920C has been newly developed. The control box is resistant to voltage fluctuations, noise and vibration.
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- In addition, the current DLN-5410N-7 is bi-levelized with the latest energy-saving technology 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.

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 DLN-5410N-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**
   - Target No. of products display mode
   - Target actual result difference display mode
2. **Operation measuring function**
   - Sewing machine availability display mode
   - Pitch time display mode
   - Average speed of stitch display mode
3. **Bobbin counter function**
   - Bobbin counter display mode

The operation panel can be selected according to the process.

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>CP-18A</th>
<th>CP-180A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production support function</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic reverse feed stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 19 stitches</td>
</tr>
<tr>
<td>Double reverse feed stitching</td>
<td>0 to 15 stitches</td>
<td>0 to 19 stitches</td>
</tr>
<tr>
<td>Constant dimension sewing</td>
<td>0 to 500 stitches</td>
<td>0 to 19 stitches</td>
</tr>
<tr>
<td>Mechanic stitching</td>
<td>0 to 500 stitches</td>
<td>0 to 19 stitches</td>
</tr>
<tr>
<td>Multi-layer stitching</td>
<td>0 to 10 stitches</td>
<td>0 to 15 stitches</td>
</tr>
<tr>
<td>Bobbin thread counter display</td>
<td>10/15/20 stitches</td>
<td>10/15/20 stitches</td>
</tr>
<tr>
<td>Display of the number of revolution of sewing machine (combined with the SC920)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>DLN-5410N</th>
<th>DLN-5410N-7</th>
<th>DLN-5410NJ-7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>For light to medium weight materials</td>
<td>For heavy-weight materials (long stitch length type)</td>
<td>For heavy-weight materials (long stitch length type)</td>
</tr>
<tr>
<td><strong>Max. sewing speed</strong></td>
<td>4,000st/min. *1</td>
<td>4,000st/min. *1</td>
<td>3,000st/min. *1</td>
</tr>
<tr>
<td><strong>Max. stitch length</strong></td>
<td>4mm</td>
<td>4.5mm</td>
<td>6mm</td>
</tr>
<tr>
<td><strong>Needle bar stroke</strong></td>
<td>30.7mm</td>
<td>30.7mm</td>
<td>30.7mm</td>
</tr>
<tr>
<td><strong>Lift of the presser foot</strong></td>
<td>By hand 5.5mm, By lever 13mm</td>
<td>DB X (4F)</td>
<td>DB X (4F)</td>
</tr>
<tr>
<td><strong>Needle (at the time of delivery)</strong></td>
<td>DB E (134Nmm)</td>
<td>DB E (134Nmm)</td>
<td>DB E (134Nmm)</td>
</tr>
<tr>
<td><strong>Hook</strong></td>
<td>Automatic-lubricating <code>Y</code> hook</td>
<td>Automatic-lubricating <code>Y</code> hook</td>
<td>Automatic-lubricating <code>Y</code> hook</td>
</tr>
<tr>
<td><strong>Lubrication</strong></td>
<td>Automatic</td>
<td>Automatic</td>
<td>Automatic</td>
</tr>
<tr>
<td><strong>Lubricating oil</strong></td>
<td>JUKI Rewulf Oil No.1 (equivalent to ISO VG2)</td>
<td>JUKI Rewulf Oil No.1 (equivalent to ISO VG2)</td>
<td>JUKI Rewulf Oil No.1 (equivalent to ISO VG2)</td>
</tr>
<tr>
<td><strong>Automatic reverse feed function</strong></td>
<td>Provided as standard</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>Singlephase 100-120V 200-240V, 3-phase 200-240V</td>
<td>Provided as standard</td>
<td>Provided as standard</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>650VA</td>
<td>650VA</td>
<td>650VA</td>
</tr>
<tr>
<td><strong>Total weight</strong></td>
<td>9.5kg</td>
<td>9.5kg</td>
<td>9.5kg</td>
</tr>
</tbody>
</table>

* st/min = stitches per minute

**WHEN YOU PLACE ORDERS**

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

**DLN5410N**

**DLN5410N-7**

**DLN5410NJ-7**

* PSC box
  - SC920C
  - Motor for SC
  - M92
  - Operation panel

**PBC box
  - Code**

- **H**
  - For light to medium weight materials
  - For heavy-weight materials (long stitch length type)

- **L**
  - For heavy-weight materials

- **H**
  - For heavy-weight materials (long stitch length type)

- **J**
  - For jeans

**Auto-Stop (optional)**

- **Code**
  - DB
  - DB (optional)

* A: North America and Central and South America.

To order, please contact your nearest JUKI distributor.

**JUKI CORPORATION**
SEWING MACHINER BUSINESS UNIT
http://www.juki.com

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SEPTEMBER, 2013 (Printed in Japan)