

**JUKI®**

**DLN-5410N**

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

**1-needle, Needle-feed, Lockstitch Machine**



DLN-5410N-7-WB/CP-18A

**DLN-5410N Series**

**1-needle, Needle-feed, Lockstitch Machine**

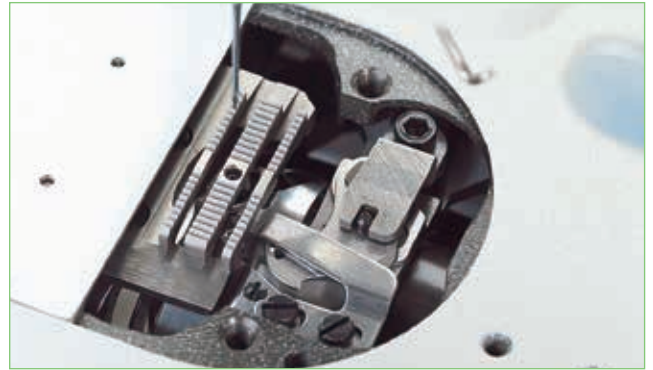
With its needle feed mechanism, the machine supports the operator, promotes efficiency in production, and upgrades the quality of finished products.



DLN-5410N

### Sure thread trimming mechanism.

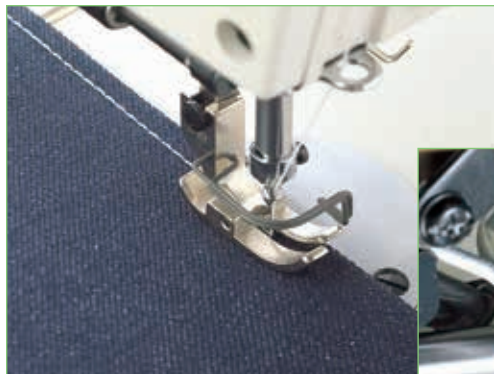
The moving knife has been designed so that it can be easily replaced, thus facilitating machine maintenance.



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

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 ( $\pm 15\%$ ), 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 AK85 (pedal-driven)



### ● 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 DLN-5410N-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 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

- 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 21 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 SC-920C)  | ○                              | ○                                   |



## SPECIFICATIONS

| Model name                       | DLN-5410N  | DLN-5410NH                        | DLN-5410NL   |
|----------------------------------|--|-----------------------------------|--|
| Application                      | For light- to medium-weight materials            | For heavy-weight materials        | For heavy-weight materials (long stitch length type) |
| Max. sewing speed                | 5,000sti/min *                                   | 4,000sti/min *                    | 3,000sti/min *                                       |
| Max. stitch length               | 4mm  | 4.5mm                             | 6mm  |
| 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)<br>For JE: 134 (Nm90)                 | DB×1 (#21)<br>For JE: 134 (Nm130) | DB×1 (#21)<br>For JE: 134 (Nm130)                    |
| Hook                             | Automatic-lubricating full-rotary hook           |                                   |  |
| Lubrication                      | Automatic  |                                   |  |
| Lubricating oil                  | JUKI New Defrix Oil No.1 (equivalent to ISO VG7) |                                   |  |

| Model name                       | DLN-5410N-7                                       | DLN-5410NH-7                      | DLN-5410NJ-7   |
|----------------------------------|---|-----------------------------------|--|
| Application                      | For light- to medium-weight materials             | For heavy-weight materials        | For jeans  |
| Max. sewing speed                | 5,000sti/min *                                    | 4,000sti/min *                    |  |
| Max. stitch length               | 4mm   | 4.5mm                             |  |
| Needle bar stroke                | 30.7mm  |                                   | 33mm   |
| Lift of the presser foot         | By hand: 5.5mm, By knee: 13mm                     |                                   |  |
| Needle (at the time of delivery) | DB×1 (#14)<br>For JE: 134 (Nm90)                  | DB×1 (#21)<br>For JE: 134 (Nm130) | DB×1 (#21)<br>For JE: 134 (Nm130)                      |
| Hook                             | Automatic-lubricating full-rotary hook            |                                   | Automatic-lubricating double-capacity full-rotary hook |
| Thread                           | —   |                                   | #30~#8, B46~B92, Nm60/3~30/3                           |
| 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   |                                   |  |
| 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:

DLN5410N  DLN5410N  7

| Application  | Code |
|--|------|
| For light-to medium-weight materials                 | /    |
| For heavy-weight materials                           | H    |
| For heavy-weight materials (long stitch length type) | L    |

| Application                          | Code |
|--------------------------------------|------|
| For light-to medium-weight materials | /    |
| For heavy-weight materials           | H    |
| For jeans                            | J    |

| 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)        | AK   |

### ● PSC box

SC920C

| PSC box                 |              |          |     | 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

### ● To order, please contact your nearest JUKI distributor.

### ● Motor for SC

M92

### ● Operation panel

| Operation panel | Code   |
|-----------------|--------|
| CP-18A          | CP18A  |
| CP-180A         | CP180A |



### JUKI CORPORATION HEAD OFFICE

Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:

- (1) The development of products and engineering processes that are safe to the environment
- (2) Green procurement and green purchasing
- (3) Energy conservation (reduction in carbon-dioxide emissions)
- (4) Resource saving (reduction of papers purchased, etc.)
- (5) Reduction and recycling of waste
- (6) Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.)

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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.