

# DLN-9010A

Direct-drive, High-speed, 1-needle, Needle-feed, Lockstitch Machine with Automatic Thread Trimmer

# JUKI



DLN-9010A-SS-WB/CP-180A

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# DLN-9010A

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

### ●Auto-lifter

AK118 (pedal-driven)



### ●Optional switch (Part No.: 400-00380)

Various functions\* can be controlled through manual switches, which are effective when operating the machine in a standing position.

\*Needle up/down correction, one-stitch correction, reverse-stitch correction, auto-lifter, thread trimming, and the cancellation of one cycle of repetitive stitching.



### ●Micro-lifter (asm.) (Part No.: 236-11056)

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

## ■ SPECIFICATIONS

| Model name                          | DLN-9010A-SS   | DLN-9010A-SH   |
|-------------------------------------|--|--|
| Application                         | For light- to medium-weight materials  | For heavy weight materials                           |
| Max. sewing speed                   | 5,000sti/min   | 4,000sti/min   |
| Max. stitch length                  | 4.5mm*   |  |
| Needle bar stroke                   | 33mm   |  |
| Lift of the presser foot            | By hand: 5.5mm, By knee: 15mm(max.), Auto: 10mm  |  |
| Needle (at the time of delivery)    | DBx1 (#11) #9~#18<br>For JE:134 (Nm90) Nm65~Nm110  | DBx1 (#21) #20~#23<br>For JE:134 (Nm130) Nm120~Nm160 |
| Hook                                | Automatic-lubricating full-rotary hook   |  |
| Lubrication                         | Minute-quantity lubrication to needle bar and hook                                       |  |
| Lubricating oil                     | JUKI New Defrix Oil NO.1 (equivalent to ISO VG7)   |  |
| Distance from needle to machine arm | 300mm  |  |
| Size of bed                         | 517mmx178mm  |  |
| Bobbin thread winder                | Built-in the machine head  |  |
| Micro-lifter screw                  | Provided as standard   |  |
| Machine head drive                  | Compact AC servomotor that is directly connected to the main shaft (direct-drive system) |  |
| Automatic reverse feed function     | Provided as standard (built-in solenoid type)  |  |
| Power requirement/Power consumption | Single-phase 100~120V, 200~240V, 3-phase 200~240V / 310VA                                |  |
| Total weight                        | 83.5kg   |  |

\* The maximum sewing speed is 4,000 sti/min or less in cases where the maximum stitch length is 3.5 mm or more.

\*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:

Machine head **DLN9010AS**

| Machine head type | Code | Application                               | Code | Wiper and automatic reverse feed function |                                 |      | Device and attachment      | Code  |
|-------------------|------|---|------|---|---------------------------------|------|----------------------------|-------|
| Standard          | S    | For light- to medium-weight materials     | S    | Wiper                                     | Automatic reverse feed function | Code | Not provided               |       |
|                   |      | For heavy-weight materials                | H    | Not provided                              | Provided                        | 0B   | Auto-lifter (pedal-driven) | AK118 |
|                   |      | For sewing with low presser foot pressure | B    | Provided                                  | Provided                        | WB   |                            |       |

Control box **SC920A**

| Power supply  | Code |
|---|------|
| Single-phase 100-120V (for JA [LA])                 | S    |
| 3-phase 200-240V (for JA, General Export)           | D    |
| Single-phase 200-240V (for General Export)          | K    |
| Single-phase 200-240V (for General Export [IPM FC]) | L    |
| Single-phase 200-240V (for CE)                      | N    |

Operation Panel **CP18A**  
**CP180A**



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 soyink on recycle paper.  
\* Paper from responsible sources FSC™ C001712

This is a needle-feed type DDL-9000 Series sewing machine, that has been highly applauded as the top-of-the-line lockstitch machine with a thread trimmer.

# DLN-9010A



It has inherited the advanced features of the DDL-9000 Series, such as the direct-drive system, semi-long arm and elimination of the oil pan. In addition, it comes with a highly reliable needle feed mechanism.

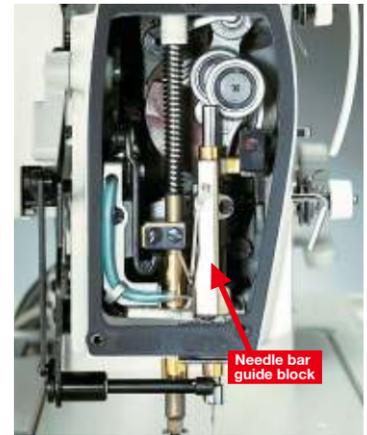
Thanks to the adoption of the most advanced compact AC servomotor, which has been utilized in the DDL-9000B, as well as employing the new model control box SC-920A, the DLN-9010A achieves a substantial labor-saving equivalent to that of the DDL-9000B.

The thread trimming speed is increased 1.5 times or more as compared with the conventional model, as the thread trimming timing can now be precisely controlled.

The needle feed mechanism, which is widely recognized as offering outstanding efficiency of feed and effectively preventing uneven material feed, responds to a wide range of applications such as the sewing of outerwear, runstitching of men's shirts, etc. and the attaching of various parts to garment bodies.

## The machine is installed with a highly reliable needle feed mechanism.

- Thanks to the needle-feed mechanism which offers excellent efficiency of feed, the machine ensures accurate stitch pitches (stitch length) as well as preventing slippage of the upper cloth. The bottom feed's locus has been improved to match the needle feed motion, thus the machine produces beautiful seams without stitch gathering, even when it is used for sewing slippery and difficult-to-feed material or for handling a difficult process.
- The needle feed mechanism is a so-called "dry type", which does not require oiling. With this mechanism, a highly reliable machine structure, free from oil leakage troubles, has been achieved. The frame, which requires only a minute quantity of lubricating oil, is structured to eliminate oil leakage.
- The machine can be easily changed over from a needle feed mechanism to a bottom feed mechanism easily, through a simple adjustment and gauge replacement. It is a useful feature for those users who also want to use the machine simply as a regular bottom feed type machine in accordance with applications and processes.



## The machine no longer uses an oil pan. With this oil pan-less structure, the machine helps create a clean work environment.

- The machine has been configured to eliminate the oil pan, and supplies a minute quantity of lubricating oil to the hook and needle bar, thereby contributing to the creation of a clean work environment.
- The machine saves you the time and trouble of removing the knee-lifter and cover. This means that the machine head can be tilted for cleaning and maintenance without the inconvenience of removing the knee-lifter and cover.
- Even if you tilt the machine head while the power is still ON, the safety switch will disable the machine. This means the machine won't start running when the head is tilted even if you press the foot pedal.



## The machine is provided with various easy-to-operate functions for increased operability.

### ● Bobbin thread winder

The bobbin thread winder is built-in at the top surface of the machine head. The built-in bobbin winder ensures easy replacement of the bobbin thread. The bobbin winder also incorporates a thread cutting knife for cutting the thread after the completion of bobbin winding, as well as a bobbin thread quantity adjusting function.

### ● Micro-lifter

The machine is equipped as standard with a micro-lifter. It works to constantly float the presser foot above an elastic material or other difficult-to-sew ones, thereby helping effectively reduce material slippage as well as damages made by the presser foot on the material.



### ● The latest compact-size servomotor

The DLN-9010A is installed with the latest compact servomotor which has also been adopted in the DDL-9000B in the direct-drive system, in which the servomotor is directly connected to the main shaft.

### ● Distance from needle to machine arm 300mm

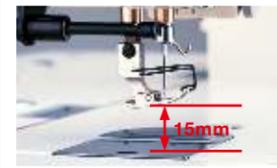
With its wider area under the arm (300mm), the machine permits easy handling of the sewing material for improved operability.

### ● Automatic reverse feed function

The machine has a pushbutton-type reverse feed switch. The automatic reverse feed switch can be re-positioned to best match the operator.

### ● Presser foot

The maximum lift of the presser foot is increased to 15mm. By using the higher-lift of the presser foot in combination with the machine's needle-up stopping feature, easier placement of a heavyweight material on the machine is ensured.



### ● Automatic thread trimmer mechanism

Precise control of the thread trimming timing is now enabled. As a result, the thread trimming speed is increased 1.5 times or more while maintaining the high reliability of the conventional type of thread trimmer.

### ● Attachment-mounting seat

Installation of an attachment-mounting seat improves operability when replacing the attachment and increases the durability of the machine bed surface.

### ● Hinge

The hinge has been moved 10cm from behind the needle entry point. Thanks to the improvement in the hinge's location, the material will no longer be caught by the hinge, thus contributing to upgraded workability.

### ● Lubricating hole

The lubricating hole is located on the arm. This allows female operator to carry out the oiling process without tilting the machine head.



## Newly developed control box

### SC-920A

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

The new model control box SC-920A, which consists of an energy-saving mode, has been developed. This control box is the first one which provides an energy-saving mode for the sewing machine. The power consumption during standby, when the motor is at rest, is reduced by approximately 20%.



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

### CP18A, CP-180A

Two different operation panels, the CP-18A and CP-180A are applicable to the DLN-9010A. Both operation panels are provided with the production support function.

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



### 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 SC920A)   | ○                              | ○                                   |

### 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

## JUKI ECO PRODUCTS

The DLN-9010A is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



● The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

For details of JUKI ECO PRODUCTS, refer to: <https://www.juki.co.jp/en/company/eco>

\*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.