

**JUKI®**

**DDL-5550N**

**DDL-5550N-7** (with automatic thread trimmer)

1-needle, Lockstitch Machine



DDL-5550N-7-WB/CP-18A

**DDL-5550N Series**

1-needle, Lockstitch Machine

Newly developed lockstitch machine provides upgraded quality and a comfortable production environment that increases efficiency.



DDL-5550N

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

The thread take-up mechanism, feed mechanism, thread paths and hook have been further improved to enhance responsiveness to material changes and to ensure consistent stitch quality.



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 arm configuration is designed to provide a larger sewing space.

Permits easier cloth handling while sewing.



Higher lift of the presser foot.

The ample lift of the presser foot makes it easier to set or remove materials or to sew overlapping sections.



The feed and lubricating mechanisms have been improved in durability.

The durability of the machine frame and components has been improved. This will result in long-range economy.

OPTIONS

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

● Auto-lifter AK85  
(pedal-driven)



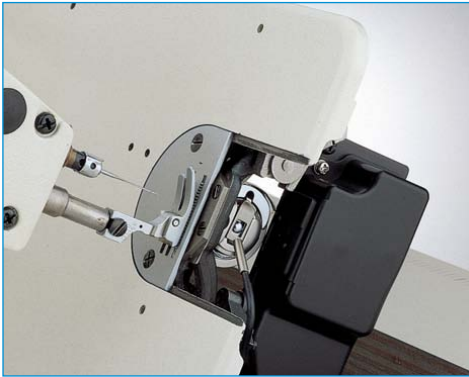
● Micro-lifter  
Part No.: 112-43763

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

● Remaining bobbin thread detector  
AE-4\* Part No.: GAE-040000A0

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.



● 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.

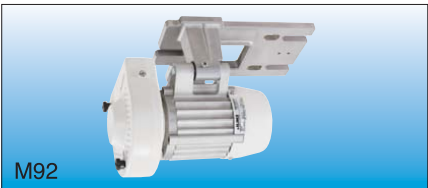
The new model control box SC-920C has been newly developed. The control box is resistant to voltage fluctuations, noise and vibration. The new model control box is provided with an energy-saving mode for the first time in a control box for sewing machines.

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 DDL-5550N-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 DDL-5550N-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<br>(performed at start/end of sewing; selectable)                                                                     | 0 to 15 stitches                  | 0 to 19 stitches                       |
| Double reverse-feed stitching<br>(performed at start/end of sewing; selectable)                                                                        | 0 to 15 stitches                  | 0 to 19 stitches                       |
| Constant-dimension sewing<br>(performed at start/end of sewing; selectable)                                                                            | —                                 | 0 to 500 stitches,<br>0 to 19 stitches |
| Rectangular stitching<br>(performed at start/end of sewing; selectable)                                                                                | —                                 | 0 to 99 stitches,<br>0 to 21 stitches  |
| Multi-layer stitching                                                                                                                                  | 0 to 15 stitches,<br>0 to 9 times | 0 to 19 stitches,<br>0 to 9 times      |
| Bobbin thread counter display (10/15/20 stitches/count;<br>selectable according to the internal setting, max. 9999)                                    | —                                 | ○                                      |
| Needle up/down correction (1 stitch stroke or needle<br>up/down according to the internal setting)<br>(changeable between "up → down" and "down → up") | —                                 | ○                                      |
| Automatic sewing (selectable between<br>constant-dimension sewing and rectangular sewing)                                                              | —                                 | ○                                      |
| Max. sewing speed control dial                                                                                                                         | —                                 | ○                                      |
| Display of the number of revolution of sewing machine<br>(combined with the SC920)                                                                     | —                                 | ○                                      |

## SPECIFICATIONS

| Model name                       | DDL-5550N                                        | DDL-5550NA                      | DDL-5550NH                        |
|----------------------------------|--------------------------------------------------|---------------------------------|-----------------------------------|
| Application                      | For medium-weight materials                      | For light-weight materials      | For heavy-weight materials        |
| Max. sewing speed                | 5,500sti/min *                                   | 4,000sti/min *                  |                                   |
| Max. stitch length               | 5mm                                              | 4mm                             | 5mm                               |
| Needle bar stroke                | 30.7mm                                           | 29mm                            | 35mm                              |
| Lift of the presser foot         | By hand: 5.5mm, By knee: 13mm                    | By hand: 4mm, By knee: 9mm      | By hand: 5.5mm, By knee: 13mm     |
| Needle (at the time of delivery) | DB×1 (#14)<br>For JE: 134 (Nm75)                 | DA×1 (#9)<br>For JE: 134 (Nm65) | 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                       | DDL-5550N-7                                       | DDL-5550NA-7                    | DDL-5550NH-7                      |
|----------------------------------|---------------------------------------------------|---------------------------------|-----------------------------------|
| Application                      | For medium-weight materials                       | For light-weight materials      | For heavy-weight materials        |
| Max. sewing speed                | 5,000sti/min *                                    | 4,000sti/min *                  |                                   |
| Max. stitch length               | 4mm                                               |                                 | 5mm                               |
| Needle bar stroke                | 30.7mm                                            | 29mm                            | 35mm                              |
| Lift of the presser foot         | By hand: 5.5mm, By knee: 13mm                     | By hand: 4mm, By knee: 9mm      | By hand: 5.5mm, By knee: 13mm     |
| Needle (at the time of delivery) | DB×1 (#14)<br>For JE: 134 (Nm75)                  | DA×1 (#9)<br>For JE: 134 (Nm65) | 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)  |                                 |                                   |
| Automatic reverse feed function  | Provided as standard                              |                                 |                                   |
| Power requirement                | Single-phase 100~120V, 200~240V, 3-phase 200~240V |                                 |                                   |
| Power consumption                | 650VA                                             |                                 |                                   |
| Total weight                     | 81kg                                              |                                 |                                   |

\* "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:

DDL5550N  DDL5550N  7   

| Application                 | Code |
|-----------------------------|------|
| For medium-weight materials | A    |
| For light-weight materials  |      |
| For heavy-weight materials  | H    |

| 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           | AK   |
| Provided (AK85)        |      |

### ● 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 |

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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.



**JUKI CORPORATION HEAD OFFICE**  
An environmental management system to promote and conduct the following:  
(1) Eco-friendly development of products and technologies  
(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  
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

# Juki DDL-5550N

Industrial lockstitch sewing machine

## Catalogue (PDF)

Catalogue et fiche technique (PDF)

الكتالوج والمواصفات الفنية (PDF)

Product page

[alborj.com/products/juki-ddl-5550n](http://alborj.com/products/juki-ddl-5550n)



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- 1 Front page: the DDL-5550N and DDL-5550N-7 with automatic thread trimmer
- 2 Features of the machine head
- 3 Options, the SC-920C control box and CP-18A operation panel
- 4 Specifications and ordering codes

Page 1, the first page of the maker's catalogue, reproduced unchanged.