DDL-9000CF Series
DDL-9000CS Series
Direct-drive, high-speed, lockstitch sewing system with automatic thread trimmer

World first!
“Double digital feed mechanism” installed
Creation of “sewing”

Direct-drive, high-speed, lockstitch sewing system with automatic thread trimmer

DDL-9000CF Series  Premium Digital
DDL-9000CS Series  Digital

A state-of-the-art sewing system that revolutionizes the perfection for “sewing”.

Succeeding the traditionally required experience and instincts, digitalized setting capability in JUKI’s all new DDL-9000G digital sewing system presents the best sewing conditions everywhere and anywhere.

"Double digital feed mechanism" installed

Vertically- and horizontally-driven digital feed mechanism

Thanks to the world’s first vertically-and horizontally-driven digital feed mechanism, the feed dog height can be adjusted with ease according to the material fabric of product to be sewn, thereby improving seam quality.

Thanks to this digital feed mechanism, thread trimming is carried out with the feed dog lowered in the case the shorter-thread remaining thread trimming function is enabled. As a result, the clearance provided between the throat plate and the material is eliminated, thereby stabilizing the length of thread remaining after thread trimming. The feed dog does not protrude the top surface of throat plate when the sewing machine stops with its needle bar up, thereby facilitating placement/removal of the material on/from the top surface of throat plate and preventing the material from being damaged by the feed dog.

Various kinds of feed locus can be selected

Digitalized vertically- and horizontally-driven feed mechanism allows easy adjustment of settings such as the feed locus only on the operation panel according to the material to be sewn.

Digitalized control panel

Two different modes; i.e., the operator mode which prioritize ease of operation and the serviceperson mode, are prepared to respectively display indications according to the user.

In addition, installation of NFC enables data transfer to an Android tablet. Data transferred from the sewing machine to an Android tablet can be edited on the tablet.

Premium Digital

Adoption of a 4.3-inch large color liquid crystal touch panel ensures easy operation. The touch panel is provided with JUKI’s unique intelligent sewing system features.

Digital

Adoption of a black-and-white liquid crystal switch panel ensures easy operation. Since, unlike the CP panel, the black-and-white liquid crystal panel provides verbal explanation of its operation, it is easier for the operator to understand how to operate it.

Management of sewing performance and sewing machine by the utilization of IoT (Internet of Things)

Management, browsing and editing of data can be carried out on the application software

Data on sewing machine adjustments made according to the product to be sewn can be transferred to a commercially-available Android tablet in contactless mode. This enables quick check for uniform settings as well as confirmation of conditions of sewing machines in a sewing line, thereby facilitating setup changes. The operation panel is also provided as standard with a USB port. Data management and software update can be carried out with ease using a USB thumb drive.

Data items of sewing can be numerically managed to ensure “stable quality” and “reduction in time required for setup changes”. Quantified sewing data can be externally taken from the sewing machine using an Android tablet or USB thumb drive.

JUKI Smart APP allows you to send and confirm various data

In the application, there are items of management setting (terminal registration), sewing machine data (sewing data), problem-solution chart. In the problem-solution chart, we can generate production graphs, the availability chart, etc. for each acquired sewing machine data so it can be used for checking the current situation and analyzing it.

Main functions of the Premium Digital and Digital

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<thead>
<tr>
<th></th>
<th>Premium Digital</th>
<th>Digital</th>
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<tbody>
<tr>
<td>Digital feed (Vertical direction)</td>
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<tr>
<td>Digital feed (Vertical direction)</td>
<td>☑</td>
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<tr>
<td>Active presser foot</td>
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<td>Active tension</td>
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<td>Support to an Android tablet</td>
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<td>Notice</td>
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<tr>
<td>Shorter-thread remaining thread trimming</td>
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<td>Color touch panel</td>
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The sewing machine can be paired with equipment which supports NFC (Near Field Communication) only by holding the equipment over the sewing machine.
Digital functions which accentuate excellent “seam” quality

I. Adoption of the needle-thread active tension

Needle thread tension which matches sewing conditions given can be set on the operation panel and stored in memory. The needle thread tension adjustment needs experience. However, for this sewing machine, thread tension data stored in memory is reproducible, thereby reducing the setup time when the product to be sewn is changed.

Example: Needle-thread active tension demonstrates its effectiveness in the topstitching process. For sealing shoulders of a difficult-to-sew material, uniform stitches can be produced continuously by appropriately changing the sewing conditions even if the right and left material fabric differ in texture grain.

II. Active presser foot pressure mechanism

The presser foot pressure is digitally controlled. Digital control system controls the presser foot pressure. Under the automatic mode, the multi-layered section detection function detects changes in material thickness to increase/decrease the presser foot pressure accordingly. Under the manual mode, the presser foot pressure control function is assigned to the hand switch to enable operation with the hand switch.

The active presser foot pressure mechanism demonstrates its effectiveness in prevention of stitch gathering and loose stitches. The needle thread tension, presser foot pressure, pitch, feed locus and feed dog height can be totally changed to link their adjustments appropriately.

III. Needle thread clamp

The device clamps the needle thread and draws it under the material at the beginning of sewing. The needle thread clamp device works to reduce the size of thread tangling in on the wrong side of the material. This expands the area around the needle entry, thereby allowing the use of various gauge components.

Remaining thread at the end of sewing reduced to 3mm

Newly adopted “double digital feed mechanism” controls up/down of the feed dog and the “double-edge driving rotary knife system” allows the feed dog to come down at the time of trimming the thread. As a result, the knives intersect with each other just under the needle entry point. This mechanism not only ensures the needle thread length of 3 mm or less that trails from the needle eyelet after thread trimming without being affected by the stitch length but also allows the operator to place/remove the material on/from the sewing machine with ease.

Functions necessary for sewing machine operation can be used with the hand switch

Functions of two hand switches can be set through the operation panel. Since the reverse-feed stitching lever is provided as standard, added functions can be customized. 20 different functions (needle-up/down correction sewing, reverse-feed correction sewing, 1-time reverse-feed stitching cancellation function, etc.) are available. Highly convenient operation is enabled by setting the functions which match the sewing process in combination.

The hand switches have been factory-assigned respectively with 

- “Touch-back switch” and 
- “Custom switch” (to be set by the customer) at the time of shipment. The customer may assign other functions to these two hand switches.

Auto-lifter AK-154

Newly-developed auto-lifter device comes with a stepping motor. This not only increases the amount of lift of the presser foot from 8.5 mm to 13.5 mm at the maximum but also reduces the operating noise. After the thread cutting of the sewing machine, thanks to the feature of the world’s first top and bottom drive electronic feed mechanism to prevent the feed dog from protruding the top of throat plate, the material can be placed under presser foot and removed from there with ease and is not easily damaged.

Commitment to seam quality “Reverse-feed stitching function by means of the reverse feed lever” is provided as standard.

The operator carries out fine adjustment of correction sewing (within the stitch length of 1 pitch) using the reverse feed lever, thereby achieving “further improved seam quality”.

LED light

The LED light illuminates the needle entry area in the just-under direction from the right and left sides of the needle bar. In comparison with the single-direction illumination, this LED light helps the operator carry out sewing more easily. Illuminance of the LED light is adjustable in five levels. It can also be used as an auxiliary lamp for working.
These three types of the DDL-9000C Series are environmentally friendly sewing machines that prevent the material from being stained with oil.

**DDL-9000C Series comes in three different types**

These three types of the DDL-9000C Series are environmentally friendly sewing machines that prevent the material from being stained with oil.

**Fully-dry head type / Premium Digital**

**DDL-9000C-D**
Max. sewing speed: 4,000sti/min

The machine prevents the material being sewn from being stained with oil.

The DDL-9000C is the comfort sewing machine that prevents oil stains on the material during sewing. It totally supports the improvement of finished seam quality.

With the advanced dry technology of enabling operation without being lubricated, a frame which does not need lubrication has been developed. It is provided with not only a high-speed sewing capability, but also a safety feature for preventing oil stains.

**FM, SM Semi-dry head type / Premium Digital**

**DDL-9000C-M**
Max. sewing speed: 5,000sti/min

Sewing work free from oil stains by means of our leading-edge dry-head technology.

The DDL-9000C-M is the standard model developed with the emphasis on durability. It produces seams with consistency when run at speeds which falls in the range of the highest sewing speeds.

**FS, SS Minute-quantity lubrication type / Premium Digital**

**DDL-9000C-S**
Max. sewing speed: 5,000sti/min

The sewing speed of 5000sti/min, which is the highest speed of any direct-drive lockstitch machines, contributes to increased productivity.

The DDL-9000C-S is the standard model developed with the emphasis on durability. It produces seams with consistency when run at speeds which falls in the range of the highest sewing speeds.

The sewing speed of 5000sti/min, which is the highest speed of any direct-drive lockstitch machines, contributes to increased productivity.

The DDL-9000C-S is the standard model developed with the emphasis on durability. It produces seams with consistency when run at speeds which falls in the range of the highest sewing speeds.

### OPTIONS

- **Non-lubricated hook 22890206**
- **Non-lubricated hook (with a needle guard) 22890404**
- **Non-lubricated hook with a needle guard**
- **Non-lubricated hook with an exclusive hook, bobbin and bobbin case.**
- **Non-rotary bobbin Hook 27003557 Bobbin case 27003755 Bobbin 27003805**
- **The non-rotary bobbin requires an exclusive hook, bobbin and bobbin case.**
- **Auto-lifter AK-154 (foot-pedal type) 40174617**
- **For the full digital type model, the auto-lifter function is used as standard.**
- **Cooling fan kit (with AK) 40230011**
- **Cooling fan kit (without AK) 40230006**

### SPECIFICATIONS

**MODEL**

<table>
<thead>
<tr>
<th>DDL-9000C-FDS</th>
<th>DDL-9000C-FMS</th>
<th>DDL-9000C-FSH</th>
<th>DDL-9000C-SMS</th>
<th>DDL-9000C-SH</th>
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<tbody>
<tr>
<td>Application</td>
<td>Medium-weight</td>
<td>Heavy-weight</td>
<td>Medium-weight</td>
<td>Heavy-weight</td>
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<tr>
<td>Lubrication</td>
<td>Fully-dry head type</td>
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<td>Minute-quantity lubrication</td>
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<td>4,000sti/min</td>
<td>4,000sti/min</td>
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<td>Hand switch</td>
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### WHEN YOU PLACE ORDERS

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

**Machine head**

**DDL9000C**

**Digital Specifications**

<table>
<thead>
<tr>
<th>Machine head</th>
<th>Sewing specifications</th>
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<tr>
<td>Digital type</td>
<td>Medium-weight</td>
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**Wiper**

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<td>CMS</td>
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**Automatic foot lifter**

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<tr>
<td>AK154</td>
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**Control box**

**SC95**

**Head**

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<tr>
<td>Single-phase 220V (For General Export)</td>
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**Digital type**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>FDS</td>
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**To order, please contact your nearest JUKI distributor.**