

JUKI®

**Direct-drive, High-speed, Needle-feed,
Lockstitch Machine with an Automatic Thread Trimmer**

DLN-9010

BIG-90000



DLN-9010SS-WB/CP-160D

*Direct
Drive
Innovation!*

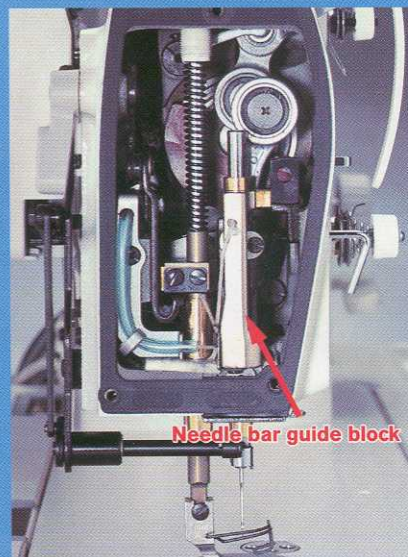
DLN-9010

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. 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. 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 incorporates a newly developed 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 machine to a bottom feed machine 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.

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.

Micro-lifter

The machine is equipped as standard with a micro-lifter. It works to constantly float the presser foot above on 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.



Automatic reverse feed function

The machine has a push-button-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 heavy-weight material on the machine is ensured.



Compact AC servomotor

In the machine's newly introduced direct-drive system, a compact AC servomotor is directly connected to the main shaft. This motor demonstrates quick start-up, upgraded stop accuracy, and excellent responsiveness.



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.

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.

Automatic thread trimmer mechanism

The machine is provided with a well-proven horizontal-type thread-trimming mechanism that ensures speedy and reliable thread trimming.

Attachment-mounting seat

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

The SC-900 control box offers further upgraded capabilities.

SC-900

- The front cover can be opened/closed by a fingertip control.
- The number of revolutions at the start-up can be switched between three settings according to the operator's needs (standard, low, and high).
- The function-setting switch is provided with two new capabilities: reverse-feed and repeat. In addition, the switch has a reset capability to restore the machine to the default settings.



The control panel can be selected according to the process.

CP-360D



- With this control panel, two kinds of programs combining as many as 15 steps can be established.
- This control panel has an expanded range of functions such as teaching sewing, a function used to establish the number of stitches during sewing.

CP-160D

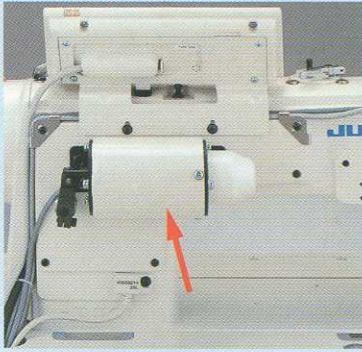


- Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching. As many as 19 stitches can be established for automatic reverse stitching (single or double).

* "Without control panel" can also be specified.

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

Auto-lifter AK118 (pedal-driven)



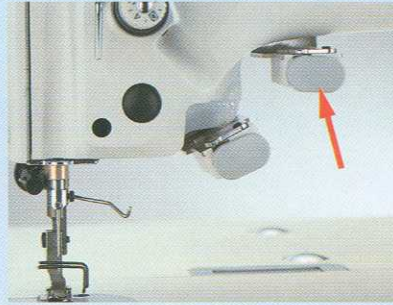
Micro-lifter (asm.) (Part No.: 236-11056)

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

Optional switch (Part No.: 400-00380)

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

*Half-stitch correction, a-stitch correction, reverse-stitch correction, auto-lifter, thread trimming, and the cancellation of one cycle of repetitive stitching.



Remaining bobbin thread detector AE-8* (Part No.: GAE-080000A0)

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. (Only supported by the minute-quantity lubricating type machine)

Material edge sensor ED-4*

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.

*To mount the optional devices onto the machine after the setup, the optional PWB A Part No.:M9701-461-0A0 (separately available) will be required.

SPECIFICATIONS

Model name	DLN-9010SS	DLN-9010SH
Application	For light- to medium-weight materials	For heavy weight materials
Max. sewing speed	5,000rpm	4,000rpm
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)	DB×1 (#11) #9~#18 For JE:134 (Nm90) Nm65~Nm110	DB×1 (#21) #20~#23 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	517mm×178mm	
Bobbin thread winder	Built-in the machine head	
Micro-lifter screw	Provided as standard	
Machine head drive	Compact-sized 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 / Power rating 400VA	
Total weight	87kg	

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

WHEN YOU PLACE ORDERS

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

Machine head type	Code	Application	Code
Standard	S	For light- to medium-weight materials	S
		For heavy-weight materials	H

PSC box/control panel

Control panel	Code
Not provided	000
CP-160	160
CP-360	360

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SC900- [] [] S- [] [] [] [] D

Wiper and automatic reverse feed function		
Wiper	Automatic reverse feed function	Code
Not provided	Provided	OB
Provided	Provided	WB

Device and attachment	Code
Not provided	/
Auto-lifter (pedal-driven)	AK118

PSC box			Code
For General Export	Single-phase	200~240V	07
	3-phase	200~240V	11
For CE	Single-phase	220~240V	34
For JUS (LA) *	Single-phase	100~120V	37
	3-phase	200~240V	38

*JUS:North America and Central and South America..



JUKI CORPORATION HEAD OFFICE
The environmental management system to promote and conduct the technological and technical research, the development and design of the products in which the environmental impact is considered, the conservation of the energy and resources, and the recycling in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.

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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 catalog is printed on recycle paper.

● To order, please contact your nearest JUKI distributor.