

JUKI®

1-needle, Needle-feed, Lockstitch Machine

DLN-5410N DLN-5410N-7

(with automatic thread trimmer)



DLN-5410N-7-WB/CP-160A

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.



● **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.

- For DLN-5410NJ-7, select AE-5 AE-5* Part No.: GAE-050000A0

* To retrofit the AE-4 or AE-5 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 motor unit

SC-910/M91

- SC-910 model control box is resistant to voltage fluctuations. It comes with a compact and energy-saving type switching power supply system that does not use a transformer. This contributes to improved reliability.
- The M91 model compact motor unit featuring low vibration and low noise capabilities is installed on the control box.
- The number of revolutions can be selected from among three different types (standard, slow and fast) according to the preference of the operator. In addition to this feature, the control box incorporates many different functions for upgraded workability.



The operation panel can be selected according to the process.

IP-100C

- The operation panel has been provided with a large user-friendly LCD. A pictograph and set values are shown on the same screen, which promises improved operability of the panel.
- The operation panel has been provided with a variety of communication and maintenance control features and is able to store data on a SmartMedia or personal computer.
- The features of the operation panel can be updated without the need for changing the PWB/ROM.



CP-160A

- Pattern sewing can be performed by the number of stitch control feature.
- Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching. The maximum number of stitches that can be set for automatic reverse stitching (single or double) is 19.



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	5,000rpm	4,000rpm	3,000rpm
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 x 1 (#14) For JE: 134 (Nm90)	DB x 1 (#21) For JE: 134 (Nm130)	DB x 1 (#21) 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	5,000rpm	4,000rpm	
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 x 1 (#14) For JE: 134 (Nm90)	DB x 1 (#21) For JE: 134 (Nm130)	DB x 1 (#21) 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		

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

SC910

PSC box				Code
For JUS (LA)*	Single-phase	100 ~ 120V	PFL	S
For JUS*, 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

* JUS: North America and Central and South America

● Operation panel

Operation panel	Code
IP-100C	IP100C
CP-160A	CP160A

● To order, please contact your nearest JUKI distributor.

JUKI
JUKI CORPORATION
MARKETING & SALES H.Q.

8-2-1, KOKURYO-CHO, CHOFU-SHI,
TOKYO 182-8655, JAPAN
PHONE : (81) 3-3480-2357, 2358
FAX : (81) 3-3430-4909, 4914
<http://www.juki.com>

* 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.

● Motor for SC

M91S

Control box	Code
Standard	S
Provided with built-in I/O board	A

● Control box provided with built in I/O board (Code A) should be selected for the machine head equipped with the remaining bobbin thread detector (AE-4 or AE-5).

Pulley belt	Code
Standard	S



JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct (1)the technological and technical research, the development and design of the products in which the environmental impact is considered, (2)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.