

ELECTRONIC-STOP MOTOR TYPE

1-needle, Lockstitch Machine with an Automatic Thread Trimmer

JUKI's newly developed EC-10B Series lockstitch machines with automatic thread trimmers provide higher reliability. The control panel is optionally available.

DDL-5550N-7/EC-10B



DDL-8700-7/EC-10B



DDL-5600N-7/EC-10B
(Double-capacity Hook)



DLN-5410N-7/EC-10B
(Needle-feed)



DLU-5490N-7/EC-10B
(Bottom & Variable Top feed)



DLD-5430N-7/EC-10B
(Differential-feed)



DLM-5400N-7/EC-10B
(With a Vertical Edge Trimmer)



DMN-5420N-7/EC-10B
(Needle-feed, with a Vertical Edge Trimmer)



* CP-160 control panel is optionally available.

The consistent seam quality and thread trimming performance of the EC-10A Series has already been well proven over years of operation. The EC-10B is an upgrade of the EC-10A which incorporates further improved functions to enable the use of a control panel for high-end models. If mounted with a control panel (CP-160, optionally available), the EC-10B Series offers, in addition to its standard basic functions, a sophisticated array of upgraded functions to enable use for wider applications such as multilayer sewing, constant-dimension sewing, and rectangle pattern sewing, as well as the use of a bobbin thread counter.

ELECTRONIC-STOP MOTOR/ CONTROL BOX EC-10B

- The EC-10B enables the sewing machine to perform thread trimming, stop with its needle up/down, perform automatic reverse feed stitching at sewing start and sewing end, and perform one-touch reverse feed stitching with a switch. Needless to say, the number of reverse feed stitches can be specified.
- A contactless electromagnetic coupling is adopted. This means that the clutch disc does not require any maintenance. Furthermore, cooling efficiency is enhanced, there by preventing the motor from running at very hot temperatures.
- In addition to the EC-10B's error-identification and signal input/output checking modes, the machine features a new resistor pack system for identification of sewing machine used for improved maintainability.



EC-10B

CONTROL PANEL CP-160 (OPTION)

- Along with its standard functions, the control panel offers users a bobbin thread counter for higher efficiency and pattern sewing. Functions such as multi-layer stitching, constant-dimension sewing, and rectangle stitching.
- The easy-to-read control panel facilitates function selection and easy input of sewing data such as the number of stitches.



CP-160

- The optional ED-2 material edge sensor can be attached to the control panel.

CONTROL PANEL SPECIFICATIONS

No.	Function	EC-10B		EC-10B/CP-160 (optional)	
1	Automatic thread trimmer			○	
2	Automatic back tack function			○	
3	Wiper			○	
4	Soft-start			△	
5	Auto-lifter			*	△
6	Support for sewing machine for standing use			**	○
7	Stop with needle up/down			○	
8	Normal stop with needle up			○	
9	Normal stop with needle down			○	
10	Automatic back tack stitching at sewing start	○	□	○	□
11	Automatic stitching at sewing end	○	□	○	□
12	Back tack pattern switch		△ (0 ~ 15 stitches)	○ (0 ~ 19 stitches)	□
13	Max speed limitation variable resistor		△	○	☞
14	Thread trimming prohibition switch			○	☞
15	Needle up/down compensating switch			○	☞
16	Double back tack switch for start			○	□
17	Double back tack switch for end			○	□
18	Overlapped stitching pattern switch			○	□
19	Constant-dimension stitching pattern			○	□
20	Programmable seam length			○	□
21	Bobbin thread counter			○	☞
22	Material edge sensor			***	☞

● Specified inside the control box.

* ● Operative when the machine is equipped with an auto-lifter (AK83: optional).

** ● Pedal unit (PK-70, or 71: optionally available) for standing work can be attached to the sewing machine.

*** ● Operative when the machine is equipped with a material edge sensor (ED-2: optional).

WHEN YOU PLACE ORDERS

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

DDL-5550N  -7-    

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

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

DDL-8700  -7-    

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

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

DDL-5600N  -7-    

Application	Code
For jeans	J
For heavy-weight materials	L
For leather shoes (with roller presser foot)	R

Wiper and automatic reverse feed function		
Wiper	Automatic reverse feed function	Code
Not provided	Provided	OB
Provided (for DDL-5600NJ-7)	Provided	FB


Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

DLN-5410N  -7-    

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	OB
Provided	Provided	WB

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

DLU-5490N   -7-   

Application	Code
For light-weight materials	BA
For medium-weight materials	BB
For heavy-weight materials	BC
For edge welt seam topstitching	C
To prevent it from catching materials	CG
For sewing sharp curves	D

Application	Code
For elastic materials	E
For setting zipper (right)	J
For binding	L *
For bottom hemming	M *
For piping	N *
For zipper attaching (left)	P
For preventing puckering	S

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

* Note ● When using the gauges L, M & N, attach them to the binder, etc. Since the prices are separate, please ask us of them.
● Various gauges other than those shown are also available.

DLD-5430N-7- [] [] [] []

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

Sub-gauge type	
Distance between the needle and the knife	Code
3.2mm (1/8") standard	D
2.4mm (3/32")	C
4.0mm (5/32")	E
4.8mm (3/16")	F
6.4mm (1/4")	H
9.5mm (3/8")	M

DLM-5400N [] -7- [] [] [] []

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

Sub-gauge type	
Distance between the needle and the knife	Code
3.2mm (1/8") standard	D
4.0mm (5/32")	E
4.8mm (3/16")	F
5.6mm (7/32")	G
6.4mm (1/4")	H
9.5mm (3/8")	M

DMN-5420N [] [] -7- [] [] [] []

Feed dog	Code
Standard	A
Coarse feed dog	B

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

Auto-lifter (optional)	Code
Not provided	/
Provided (AK85)	AK

EC-10B sewing machine controller (PSC box)

EC10B- [] [] []

Power supply				Code
For General Export	220V	PFL	F	
For North America	110V	PFL	H	
	220V	PFL	K	
For CE	230V	PFL	N	

Control panel	Code
Not provided	/
Provided	AA

Motor for EC-10B

M [] [] [] []

Power supply		Code
Single-phase	110V	B
	220V	D
	230V	G
	240V	E
3-phase	220V	K
	230V	Q
	240V	P
	380V	L
	400V	T
	415V	M

Frequency	Code
50Hz	5
60Hz	6

Pulley belt					
Motor pulley O.D. (mm)	Pulley belt length (Inch)	Code	Motor pulley O.D. (mm)	Pulley belt length (Inch)	Code
65	40"	F	105	42"	P
75		H	110		Q
80		J	115		R
85	41"	K	120	43"	S
90		L	125		T
95		M			
		N			
100					

Motor mounting base	Code
Standard	/
For Europe	E
For CE	C

* If an auto-lifter is installed on the machine, the presser foot will be lifted/lowered by the the foot pedal.

OPTIONAL DEVICES



Auto-lifter

Auto-lifter mounted on the machine head
AK85 (pedal switch type)



Material edge sensor (ED-2)*

The sensor detects the material edge, thereby stopping the sewing machine to make it perform thread trimming at once.

* The CP-160 model of operation panel is required.

SPECIFICATIONS

● DDL-5550N-7

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	5,000rpm	4,000rpm	
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) For JE: 134 (Nm75)	DA × 1 (#9) For JE: 134 (Nm65)	DB × 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)		
Automatic reverse feed function	Provided as standard		
Power requirement	Single-phase 110V, 120V, 220V, 240V, 3-phase 220V, 240V, 380V, 415V		
Total weight	81kg		

● DDL-8700-7

Model name	DDL-8700-7	DDL-8700A-7	DDL-8700H-7
Application	For medium-weight materials	For light-weight materials	For heavy-weight materials
Max. sewing speed	5,000rpm	4,000rpm	
Max. stitch length	4mm		5mm
Needle bar stroke	30.7mm		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) #9 ~ #18 For JE: 134 (Nm90)	DA × 1 (#9) #9 ~ #11 For JE: 134 (Nm65)	DB × 1 (#21) #19 ~ #23 For JE: 134 (Nm130)
Hook	Automatic-lubricating full-rotary hook		
Total weight	81kg		

● DDL-5600N-7

Model name	DDL-5600NJ-7	DDL-5600NL-7	DDL-5600NR-7
Application	For jeans	For heavy-weight materials	For leather shoes
Max. sewing speed	4,000rpm	3,000rpm	
Max. stitch length	5mm (normal/reverse feed)	8mm, 5mm (reverse feed)	
Needle bar stroke	36mm		
Lift of the presser foot	By hand: 5.5mm, By knee: 13mm		
Needle (at the time of delivery)	DB × 1 (#21) #20 ~ #23 For JE: 134 (Nm130)	DB × 1 (#21) #20 ~ #23 For JE: 134 (Nm130)	
Thread	#30 ~ #8, B46 ~ B92, Nm=60/3 ~ 30/3		
Hook	Automatic-lubricating double-capacity full-rotary hook		
Total weight	81kg		

● DLN-5410N-7

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
Total weight	83kg		

● DLU-5490N-7

Model name	DLU-5490N-7
Max. sewing speed	4,500rpm
Max. stitch length	5mm
Max. top-feed amount	8mm
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)
Hook	Automatic-lubricating full-rotary hook
Weight	Total weight: 83kg

● DLD-5430N-7

Model name	DLD-5430N-7
Max. sewing speed	4,500rpm
Max. stitch length	5mm
Max. top-feed amount	Shirring 1:1.5 (Max. 1:3), Stretching 1:0.5
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)
Hook	Automatic-lubricating full-rotary hook
Weight	Total weight: 82kg

● DLM-5400N-7 ● DMN-5420N-7

Model name	DLM-5400N-7	DMN-5420N-7
Max. sewing speed	4,500rpm	5,000rpm (Max. 4,000rpm with the stitch length set to 4mm or more)
Feed system	Bottom-feed	Needle-feed
Max. stitch length	4mm (normal/reverse feed)	5mm (normal feed), 3mm (reverse feed)
Needle bar stroke	30.7mm	
Lift of the presser foot	By hand : 5.5mm, By knee : 10mm	
Needle (at the time of delivery)	DB x 1 (#14) #9 ~ #18, For JE: 134 (Nm90)	
Hook	Automatic-lubricating full-rotary hook	
Max. thickness of the material to be cut	4mm	
Total weight	83kg	84kg

● To order, please contact your nearest JUKI distributor.



JUKI CORPORATION HEAD OFFICE

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