

JUKI®

1-needle, Lockstitch Machine with an Vertical Edge Trimmer
with an Automatic Thread Trimmer

DLM-5400N-7

1-needle, Needle-feed, Lockstitch Machine with an Vertical Edge Trimmer
with an Automatic Thread Trimmer

DMN-5420N-7

With its highly operable knife mechanism, the machine helps promote the production of upgraded-quality products while increasing efficiency.



● DLM-5400N-7



● DLM-5400N-7-WB/CP-160



● DMN-5420N-7-WB/CP-160

With its newly developed servo motor/controller and control panel, the machine promises further upgraded operability, reduced vibration and noise, and higher reliability. The machine is able to perform low-tension sewing to flexibly respond to various kinds of materials. The knife mechanism operates with large strokes and demonstrates its sharp cutting ability even on multi-layered portions of diversified materials. Excellent operability is promised by the one-touch utility knife lever and the built-in driving mechanism. This new, upgraded-quality machine not only provides operating comfort, but also dramatically improved seam quality, further cost reduction, and excellent productivity.



● DLM-5400N-7

Upgraded stitch quality

The superior technology JUKI has developed allows material to be sewn under low tension.

The stitch quality is consistent even during high-speed operation

Capable of high-speed sewing, it can also flexibly respond to various applications, thus leading to higher productivity.



● DMN-5420N-7

Material is easier to handle

The components of the driving mechanism are contained in the machine head, creating a wider sewing area.

The knife is sharp enough to cut any type of material

The knife is capable of cutting any kind of material regardless of its thickness or toughness, including heavy-weight material, elastic material and brushing material.



The one-touch utility knife lever enhances the comfort of operation

Since the knife lever has been plated so as to prevent rust, there is no need to worry about the material becoming soiled with rust.

The cloth chip disposer slit has been widened

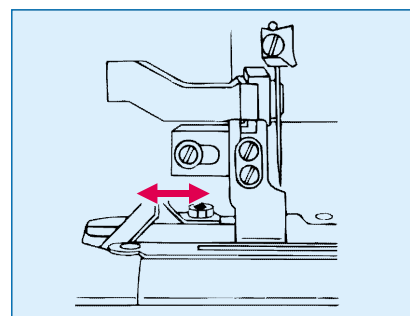
The slit the cloth chip disposer is wide enough to receive the chips from a wider area of the machine. The cloth chip disposal process is therefore much easier.



The thread cutting function has been greatly improved

The thread trimmer is designed to cut various threads of different thicknesses, so the range of the applicable thread thickness number has been widened.

The thread trimmer can therefore cut even a thick thread with ease.



Adjustment of the position of the cloth trimming knife

The cloth trimming knife has been designed so that it can move as much as 5.5 mm toward you from the center of the needle.

NEW-GENERATION SERVOMOTOR/ CONTROLLER

SC-800



Light-weight monolithic configuration with a built-in motor

The introduction of a compact AC servomotor reduces the total weight of the machine and helps reduce vibration and noise during operation. The controller is completely shielded by an aluminum frame to absorb external impacts such as static electricity.

Comfortable operation is ensured by quick-start and quick-stop function

The servomotor starts up and stops with high speed and extreme accuracy. With its proven reliability and quality, the machine delivers further upgraded efficiency and comfort in operation.

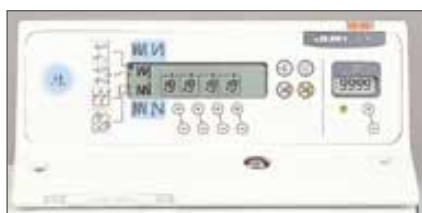
CONTROL PANEL

Improved functions can be selected using the control panel to suit the machine's specification and the processes in which it is to be used

A series of functions has been developed to allow the operator to make a choice on the panel in accordance with the process in which the sewing machine is to be used. The control panel is provided with many different kinds of functions, which means that it can respond to any sewing need.



● CP-60



● CP-160



● CP-360

CONTROL PANEL SPECIFICATIONS

No.	Function	Pictgraph	CP-60	CP-160	CP-360
1	Power indicator lamp (LED)		●	●	●
2	Max. speed limitation variable resistor		●	●	●
3	Thread trimming prohibition switch		▲	●	●
4	Soft-start		▲	▲	▲
5	Automatic count back		▲	▲	▲
6	Material edge sensor ON/OFF switch		** ▲	** ●	** ●
7	Function of detecting the remaining amount of bobbin thread			* ●	* ●
8	Automatic thread trimming switch			●	●
9	Back tack pattern switch			●	●
10	Overlapped stitching pattern switch			●	●
11	Bobbin thread counter			●	●
12	Needle up/down compensating switch			●	●
13	One-shot automatic stitching switch			●	●
14	Double back tack switch			●	●
15	Key lock			●	●
16	Constant-dimension stitching pattern			●	●
17	Programmable seam length			●	●
18	Production counter				●
19	Programmed stitching pattern				●
20	Combined stitching pattern switch				●
21	Re-sewing switch				●
22	Teaching switch				●
23	Presser foot lifting time setting switch				●









● Designated on the control box.

* ● Operative when the machine is equipped with a remaining bobbin thread detector (AE: optional).

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

DLM-5400N-7

SUB-GAUGE SET LIST

Specifications of the sub-gauge	Gauge width	Throat plate	Throat plate cover (asm.)	Gauge	Throat plate chip guard	Chip guide	Hinging presser (asm.)	Feed dog	Knife
									
**C	2.4mm (3/32")	113-46004	B1115-531-0AD	B1190-522-X00	113-46905	113-46400	B1524-530-DB0	B1613-522-N00A	B4121-522-000
D	3.2mm (1/8")	113-46004	B1115-531-0AD	B1190-522-S00	113-46905	113-46400	B1524-530-DB0	B1613-522-N00A	B4121-522-000
E	4.0mm (5/32")	113-46004	B1115-531-0AD	B1190-522-Y00	113-46905	113-46400	B1524-530-EB0	B1613-522-N00A	B4121-522-000
F	4.8mm (3/16")	113-46004	B1115-530-0AF	B1190-522-T00	113-46905	113-46400	B1524-530-EB0	B1613-522-N00A	B4121-522-000
H	6.4mm (1/4")	113-46004	B1115-530-0AF	B1190-522-U00	113-47101	113-46509	B1524-530-GB0	B1613-522-W00A	B4121-522-000
M	9.5mm (3/8")	113-46004	B1115-530-0AM	B1190-522-V00	113-47309	113-46509	B1524-530-GB0	B1613-522-W00A	B4121-522-000

■ This is made to order as an auxiliary part only.









**CA	2.0mm (5/64")	113-46004	B1115-531-0AD	B1190-522-Y0A	113-46905	113-46400	B1524-530-CB0	B1613-522-N00A	B4145-530-C00
CB	2.4mm (3/32")	113-46004	B1115-531-0AD	B1190-522-X0B	113-46905	113-46400	B1524-530-DB0	B1613-522-N0C	B4121-522-000
EA	4.0mm (5/32")	113-46004	B1115-531-0AD	113-62753	113-46905	113-46400	B1524-530-EB0	B1613-522-N00A	B4121-522-000
FA	4.8mm (3/16")	113-46004	B1115-530-0AF	B1190-522-T0A	113-46905	113-46400	B1524-530-EB0	B1613-522-N00A	B4121-522-000
FB	4.8mm (3/16")	113-46004	B1115-530-0AF	B1190-522-Y0C	113-46905	113-46400	B1524-530-EB0	B1613-522-N00A	B4121-522-000
G	5.3mm (27/128")	113-46004	B1115-530-0AF	B1190-522-Y0F	113-47101	113-46400	B1524-530-GB0	B1613-522-N00A	B4121-522-000
HA	6.4mm (1/4")	113-46301	B1115-530-0AF	B1190-522-U0AA	113-47101	113-46509	B1524-530-GB0	B1613-522-A0AA	B4121-522-000
K	7.9mm (5/16")	113-46004	B1115-530-0AF	B1190-522-Y0B	113-47101	113-46509	B1524-530-GB0	B1613-522-W00A	B4121-522-000
MA	9.5mm (3/8")	113-46004	B1115-530-0AM	B1190-522-V0A	113-47309	113-46509	B1524-530-GB0	B1613-522-B00	B4121-522-000
*P	11.1mm (7/16")	113-46004	B1115-530-0AM	B1190-522-Y0M	113-47309	113-46608	B1524-530-GB0	B1613-522-W00A	B4121-522-000

* Knife support replacement B4118-530-00A knife attaching block replacement B4119-530-00A are also available.

** Wiper cannot be attached to the C and CA type of sub-gauges.

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SUB-GAUGE SET LIST

Specifications of the sub-gauge	Gauge width	Throat plate	Throat plate cover (asm.)	Gauge	Throat plate chip guard	Chip guide	Hinging presser (asm.)	Feed dog	Knife
									
**D	3.2mm (1/8")	113-46004	B1115-531-0AD	B1190-530-D00	113-46905	113-46400	B1524-530-DB0	B1609-530-D00 B1609-530-E00	B4121-522-000
E	4.0mm (5/32")	113-46004	B1115-530-0AF	B1190-530-E00	113-46905	113-46400	B1524-530-EB0	B1609-530-D00 B1609-530-E00	B4121-522-000
F	4.8mm (3/16")	113-46004	B1115-530-0AF	B1190-530-F00	113-46905	113-46400	B1524-530-EB0	B1609-530-D00 B1609-530-E00	B4121-522-000
G	5.6mm (7/32")	113-46004	B1115-530-0AF	B1190-530-G00	113-47101	113-46400	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000
H	6.4mm (1/4")	113-46103	B1115-530-0AF	B1190-530-H00	113-47101	113-46509	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000
M	9.5mm (3/8")	113-46103	B1115-530-0AM	B1190-530-M00	113-47309	113-46509	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000

■ This is made to order as an auxiliary part only.

Coarse feed dog

*CA	2.0mm (5/64")	113-46004	B1115-531-0AD	B1190-530-C0A	113-46905	113-46400	B1524-530-CB0	B1609-530-C0A	B4121-530-C00
DA	2.8mm (7/64")	113-46004	B1115-531-0AD	B1190-522-D0A	113-46905	113-46400	B1524-530-DB0	B1609-530-D00 B1609-530-E00	B4121-522-000
**DC	3.2mm (1/8")	113-46004	B1115-531-0AD	B1190-530-DOC	113-46905	113-46400	B1524-530-DB0	B1609-530-D0E	B4121-522-000
DD	3.2mm (1/8")	113-46004	B1115-530-0AD	B1190-530-DOB	113-46905	113-46400	B1524-530-DBA	B1609-530-J00	B4121-522-000
J	7.5mm (9/32")	113-46103	B1115-530-0AF	B1190-530-J00	113-47101	113-46509	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000
JA	7.5mm (19/64")	113-46103	B1115-530-0AF	B1190-530-J0A	113-47101	113-46509	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000
K	7.9mm (5/16")	113-46103	B1115-530-0AM	B1190-530-K00	113-47309	113-46509	B1524-530-GB0	B1609-530-G00 B1609-530-H00	B4121-522-000

* Be sure to use this gauge with the stitch length set to 2mm or less.

** Be sure to use this gauge with the stitch length set to 2.5mm or less.

Wiper cannot be attached to the CA and DA type of sub-gauges.

WHEN YOU PLACE ORDERS

DLM-5400N -7-

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

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

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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

Feed dog	Code
Standard	A
Coarse feed dog	B

Wiper and automatic reverse feed function		
Wiper	Automatic reverse feed function	Code
Not provided	Not provided	00
Not provided	Provided	OB
Provided	Provided	WB

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

● PSC box/control panel/motor for SC

SC800- D- A

PSC box				Code
For General Export	Single-phase 220V	* PFL	Japanese, English, Chinese	07
			English, German, French, Spanish, Italy	08
	3-phase 220V	* PFL	Japanese, English, Chinese	11
			English, German, French, Spanish, Italy	12
For CE	Single-phase 230V	* PFL	English, German, French, Spanish, Italy	34
** For JUS (LA)	Single-phase 120V	* PFL	English, German, French, Spanish, Italy	37
	3-phase 220V	* PFL	English, German, French, Spanish, Italy	38

Control box	Code
Standard	S
Optional unit A (for the ED-2 and the AE-4)	A

Control panel	Code
CP-60	060
CP-160	160
CP-360	360

Pulley belt	Code
Lockstitch for general fabric	D

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

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

OPTIONAL DEVICE



Auto-lifter

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



Remaining bobbin thread detector (AE-4) *

If the remaining amount of bobbin thread reaches the predetermined set value, the buzzer will sound warn the operator.



Material edge sensor (ED-2) *

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

* To install the servomotor/ controller and control panel to the machine after set-up, optional unit (A) will be necessary (separately available).

SPECIFICATIONS

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	
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	Power rating 400VA	
Total weight	83kg	84kg

● To order, please contact your nearest JUKI distributor.



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.

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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.