

1-needle, Unison-feed,  
Lockstitch Machine with a Large Hook

**JUKI**<sup>®</sup>

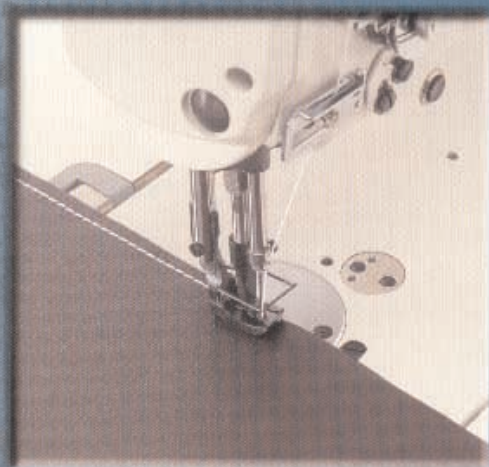
**DNU-1541**

**DNU-1541S** (with a safety mechanism)

**DNU-1541-7** (with an automatic thread trimmer)



DNU-1541



**DNU-1541-7-0B/XC-E500**

\*XC-E500 control panel is optionally available.



# 1-needle, Unison-feed, Lockstitch Machine with a Large Hook and an Automatic Thread Trimmer

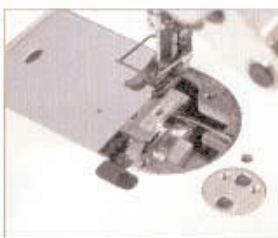
## DNU-1541-7

The vertical stroke of the walking foot and presser foot can be easily set and changed.



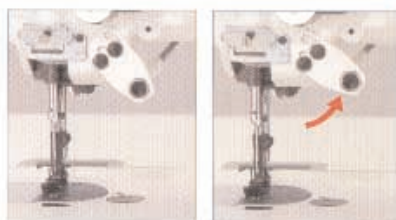
The vertical stroke of the presser foot and walking foot (amount of a forming vertical movement) can be easily changed with the large dial mounted on the top of the machine head. The sewing speed is automatically regulated based on the vertical stroke setting. This ensures ideal sewing conditions at all times.

Thread trimming without fail.



Consisting only of a moving knife and counter knife, the simple and well-balanced thread trimming mechanism is capable of cutting thick thread up to without fail.

A helpful automatic reverse feed function is provided as standard.



With just a light press on the one-touch type reverse feed button, reverse feed stitching is actuated. Furthermore, if a suspended ruler is attached on the machine or a 3-dimensional sewing product is sewn, the button can be shifted upward to prevent interruption.

The area around the needle entry is designed to be easily observed.

Since the needle thread tension-release solenoid is fitted on the rear face of the machine head, the area around the needle entry and one-touch type reverse feed button is easily viewable. This substantially contributes to improved operability.



DNU-1541-7-08/XC-E500

\*XC-E500 control panel is optionally available.

## OPTIONS

### ●Pneumatic auto-lifter

Model name	Type	Part No.	Switch type		Air regulator	
			Knee switch type	Pedal switch type	Not provided	Provided
DNU-1541 DNU-1541S	AK119A	GAK-A19010A0	○	—	○	—
	AK119B	GAK-A19010B0	—	○	—	○
	AK120A	GAK-A20010A0	○	—	—	○
DNU-1541-7	AK120B	GAK-A20010B0	—	○	—	○
	AK123A	GAK-A2300AA0	○	—	○	—
	AK123B	GAK-A2300BA0	—	○	○	—

### ●Automatic reverse feed function

Model name	Part No.	Remarks
DNU-1541 DNU-1541S	213-48552	Provided with an air regulator

\*To use a pneumatic auto-lifter and reverse feed function in combination with a machine that is without an automatic thread trimmer, select AK119A or AK119B.

### ●Combination of optional devices

Model name	Combination	Pneumatic auto-lifter	Automatic reverse feed function	DL device
DNU-1541 DNU-1541S	Automatic reverse feed function	—	○	—
	Pneumatic auto-lifter	AK120A AK120B	—	—
	Pneumatic auto-lifter+ Automatic reverse feed function	AK119A AK119B	○	—
DNU-1541-7	Pneumatic auto-lifter+ Automatic reverse feed function	AK123A AK123B	—	—
	Pneumatic auto-lifter+ Automatic reverse feed function+ DL device	AK123B	Provided as standard	DL21(D kit)

### ●Instantaneous change-over device for the alternate vertical movement amount (DL device).\*



Model name	Part No.	Remarks
DNU-1541-7	GD-210000A0	[DL21 (D kit)] for installed after the setup of the machine

\*For sewing processes that handle heavy-weight materials or multi-layered parts of material, the alternating vertical movements of the walking foot and presser foot can be quickly set to maximum by pressing the DL switch. The result is beautiful seams free from gathered stitches.

\*The machine is provided with both a hand switch and knee switch.

\*The DL device cannot be used alone. It is designed for use in combination with the auto-lifter (AK123B).

### ●Suspended ruler H152

Part No.
MAH-152010A0
SS-7151610SPX2
WP-0621016SDX2
WS-0610002KNX2

### ●3-pedal unit PK75

Part No. GPK-750000A0 (for DNU-1541-7)  
Highly operable 3-pedal unit for standing work.





# With its reliable feed and consistent seam quality, the machine responds outstandingly to the sewing of heavy-weight materials.

## Excellent sewing capabilities and feed performance.

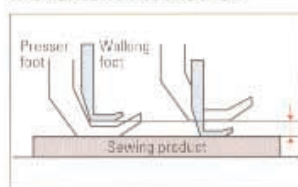
- ① With its larger needlebar stroke, higher presser foot lift, and newly adopted double-turn-on mechanism, the machine offers excellent sewing capabilities and responsiveness.
- ② The alternating vertical movements of the walking foot and presser foot are as large as 6.5mm. In addition, the ratio between alternating vertical movements of the walking foot and presser foot remains unchanged even when the material thickness changes. Thanks to this feature and the adoption of a new method of rectangular feed that prevents needle from fraying, the machine sews multi-layered parts of a material with consistent stitching pitch while preventing stitch gathering.

### Rectangular feed



- Compared with the elliptical feed, the rectangular feed helps reduce gathered stitches.

### Alternating vertical movement mechanism



- The ratio of alternate vertical movement remains unchanged even when the material thickness changes.



- Higher lift of the presser foot



- The maximum alternating vertical movement is 6.5mm.

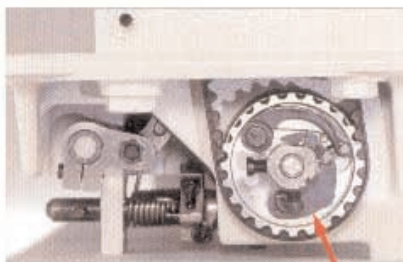
## High-speed performance increases productivity.

- ① The machine delivers increased productivity at sewing speeds as high as 2,500rpm (DNU-1541-1541S) or 3,000rpm (DNU-1541-7).



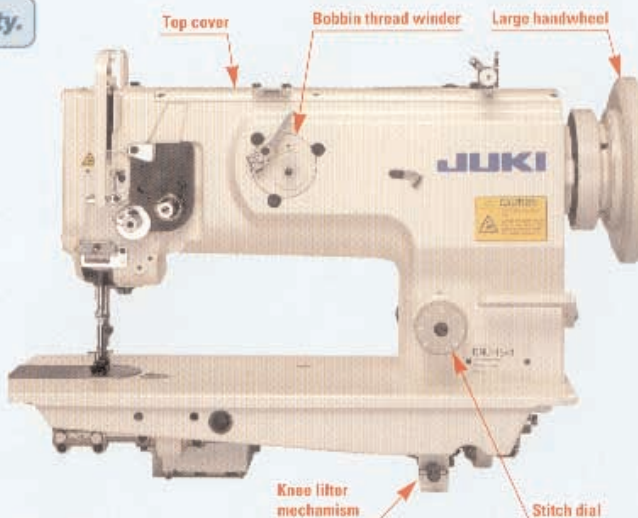
## Safety mechanism. (DNU-1541S)

- ① When the thread is caught in the hook or any other sewing trouble occurs, the safety mechanism will automatically operate to prevent the machine from being damaged.



## Excellent operability and maintainability.

- ① The stitch length can be easily selected by the stitch dial. The machine's enhanced operability features include a clear view of the area around the needle, placement of the bobbin thread winder on the front face of the machine arm, and a large handwheel ( $\phi 160$ mm).
- ② A knee-lifter mechanism is built in the bed. This reduces the pressure required to operate the knee-lifter and facilitates setup.
- ③ The machine's full-open-type top design makes adjusting works easier.
- ④ The machine comes with a lubricating mechanism that uses a centralized oil wick. This substantially reduces the time and trouble required for oiling the machine. (Hook - automatic.)
- ⑤ A walking foot mechanism is built into the machine arm to prevent oil from scattering.



DNU-1541



# SPECIFICATIONS

Model name	DNU-1541	DNU-1541S	DNU-1541-7
Max. sewing speed	2,500rpm		3,000rpm
Max. stitch length	9mm (Normal/Reverse feed)		
Needle bar stroke	36mm		
Lift of the presser foot	By hand: 9mm, By knee: 16mm		
Thread take-up	Slide type		
Amount of alternating vertical movement	2.5~6.5mm		1~6.5mm
Dial for adjustment of alternating vertical movement	—		Provided as standard
Bottom-feed adjusting mechanism	—		Provided as standard
Hook	Horizontal-axis full-rotary double-capacity hook		
Needle (at the time of delivery)	135X17 (Nm160) Nm125~Nm180		
Thread	#30~#5, B46~B138, Nm=60/3~15/3		
Pitch changing method	By dial		
Bobbin winder	Provided as standard		
Knee-lift mechanism	Provided as standard		
Safety mechanism	Provided as standard		
Lubrication	Centralized oil wick lubrication (hook: automatic)		
Lubricating oil	JUKI New Defrix Oil No.2 (equivalent to ISO VG32)		
Distance from needle to machine arm	264mm		
Bed size	477mmX178mm		
Weight of the machine head	36.5kg		42.5kg
Automatic reverse feed function	Option		Provided as standard
Power requirement	—		Single-phase 100~120V, 220~240V 3-phase 200~220V, 220~240V

## WHEN YOU PLACE ORDERS

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

[Without an automatic thread trimmer]

DNU-1541

Safety mechanism	Code
Not provided	
Provided	S

[With an automatic thread trimmer]

DNU-1541-7-0B

Pneumatic auto-lifter	Code	DL device	Code
Knee switch type (AK123A)	A	Not provided	
Pedal switch type (AK123B)	B	Provided*	A
Not provided			

\* Select the auto-lifter code E (AK123E).

[PSC box/control panel for SC]

SC-380-

	PSC box	Code
For General Export	Single-phase 220~240V	07
	3-phase 200~220V	11
For JUS(LA)*	Single-phase 110~120V	37
	3-phase 220~240V	38
For CE	Single-phase 220~240V	34

	Control panel	Code
	Not provided	0000
	Control panel display language: English Instruction manual comes in three different languages	E500B
	Control panel display language: English Instruction manual comes in five different languages	E500C

[Motor for SC]

M

	Motor	Code
For General Export	Single-phase 3-phase	200~240V 60
	Single-phase	100~120V 61
For JUS(LA)*	3-phase	200~240V 62
	Single-phase	200~240V 63

\*JUS: North America and Central and South America

## AC servomotor/controller SC-380

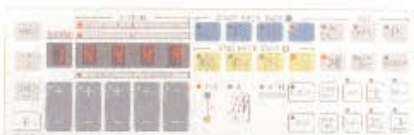
- The SC-380 is provided with many different standard functions, including speed control, soft-start, automatic reverse stitching with the specified number of stitches, constant-dimension stitching, and overlapped (multi-layered) stitching. These functions ensure sewing performance optimally suited to the material and process.



## Control panel that improves functions of the sewing machine (optional)

- The XC-E500 is provided with program sewing and a host of other functions that contribute to increased efficiency.

XC-E500



**JUKI CORPORATION HEAD OFFICE**  
The JUKI Group is an ISO 9001 certified company and has received the ISO 9001 certification for the development and design of the product by all of the JUKI Group's related companies.  
This demonstrates the energy and resources that the JUKI Group has invested in the research, development, design, production, sale and the technical service of the JUKI sewing machines. JUKI Group's quality management system and its ISO 9001 certification are the evidence of the JUKI Group's commitment to providing the best quality 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.