

DNU-1541 Series

1-needle, Unison-feed, Lockstitch Machine with Double-capacity Hook



DNU-1541-7
*Photo shown with optional CP-180(operation panel).

DNU-1541 Series

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

DNU-1541 Series

DNU-1541

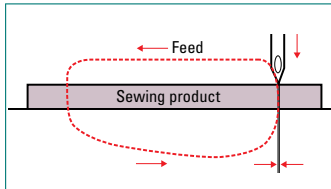
DNU-1541S (with safety mechanism)

DNU-1541-7 (with automatic thread trimmer)

Excellent sewing capabilities and feed performance.

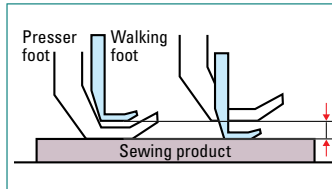
With its larger needlebar stroke, higher presser foot lift, and newly adopted double-tension mechanism, the machine offers excellent sewing capabilities and responsiveness.

Rectangular feed



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

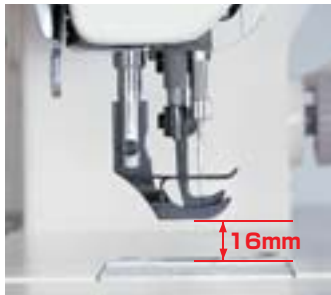
Alternating vertical movement mechanism



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

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.



- Higher lift of the presser foot



- The maximum alternating vertical movement is 6.5mm.

High-speed performance increases productivity.

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



Safety mechanism. (DNU-1541S)

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.

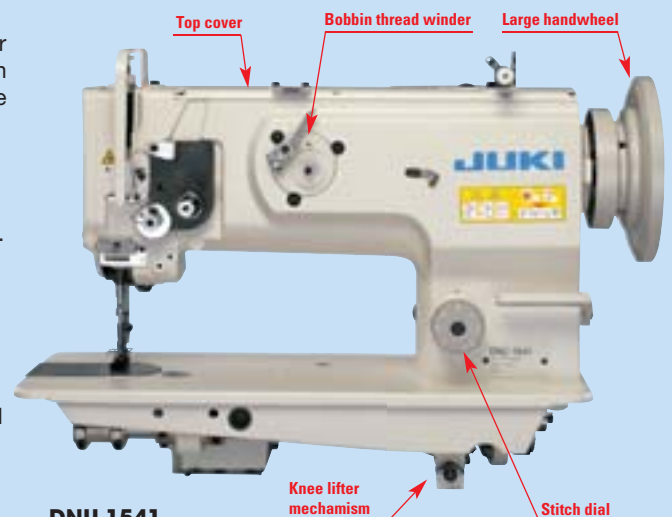
The stitch length can be easily selected by the stitch dial. The machine's enhanced operability features include a clear view of the area around the needle, placement of the bobbin thread winder on the front face of the machine arm, and a large handwheel ($\phi 160\text{mm}$).

A knee-lifter mechanism is built in the bed. This reduces the pressure required to operate the knee-lifter and facilitates setup.

The machine's full-open-type top cover design makes adjusting works easier.

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.)

A walking foot mechanism is built into the machine arm to prevent oil from scattering



DNU-1541

DNU-1541-7

(with automatic thread trimmer)



DNU-1541-7

* Operation panel is optionally available.

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 alternating 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.



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.

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.



OPTIONS

● Pneumatic auto-lifter

Model name	Type	Part No.	Switch type		Air regulator
			Knee switch type	Pedal switch type	
DNU-1541 DNU-1541S	AK147A	40103185	○	—	—
	AK147B	40103186	—	○	—
	AK147C	40103187	○	—	○
	AK147D	40103188	—	○	○
DNU-1541-7	AK147F	40103203	○	—	○
	AK147G	40103204	—	○	○

● Automatic reverse feed function

Model name	Part No.	Remarks
DNU-1541 DNU-1541S	40103190	Provided with air regulator

*To use a pneumatic auto-lifter and reverse feed function in combination with a machine that is without automatic thread trimmer, select AK147A or AK147B.

● 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	AK147C	—	—
		AK147D	—	—
	Pneumatic auto-lifter+ Automatic reverse feed function	AK147A	○	—
DNU-1541-7	Pneumatic auto-lifter+ Automatic reverse feed function	AK147B	○	—
		AK147F	Provided as standard	—
	AK147G	—		
Pneumatic auto-lifter+ Automatic reverse feed function+ DL device	AK147G	—		DL26E

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



Model name	Part No.	Remarks
DNU-1541-7	40103195	[DL26E] 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 (AK147G).

● Suspended ruler H152

Part No.	Quantity
MAH-152010A0	1
SS-7151610SP	2
WP-0621016SD	2
WS-0610002KN	2

● 3-pedal unit PK70

Part No. GPK-700010A0 (for DNU-1541-7)
Highly operable 3-pedal unit for standing work.



SPECIFICATIONS

Model name	DNU-1541	DNU-1541S	DNU-1541-7
Max. sewing speed	2,500sti/min*		3,000sti/min*
Max. stitch length	9mm (forward / backward)		
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)	135×17 (Nm160) Nm125~Nm180		
Thread	#30~#5, B46~B138, Nm=60/3~15/3		
Pitch changing method	By dial		
Bobbin thread winder	Provided as standard		
Knee-lifter 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	477mm×178mm		
Automatic reverse feed function	Option		Provided as standard
Compressed air and air consumption	—		0.5MPa (5kgf/cm ²), 0.3Nℓ/min
Motor output	750W		
Power requirement	—		Single-phase 100~120V, 200~240V 3-phase 200~240V
Weight of the machine head	36.5kg		42.5kg

* "sti/min" stands for "Stitches per Minute."

WHEN YOU PLACE ORDERS

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

[without automatic thread trimmer]

DNU1541

Safety mechanism	Code
Not provided	/
Provided	S

[with automatic thread trimmer]

DNU154170B

Pneumatic auto-lifter	Code
Knee switch type (AK147A)	A
Pedal switch type (AK147B)	B
Not provided	/

DL device	Code
Not provided	/
Provided*	A

* Select the auto-lifter code B (AK147B).

● To order, please contact your nearest JUKI distributor.



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An environmental management system to promote and conduct the following:
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(4) Resource saving (reduction of papers purchased, etc.)
(5) Reduction and recycling of waste
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

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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.