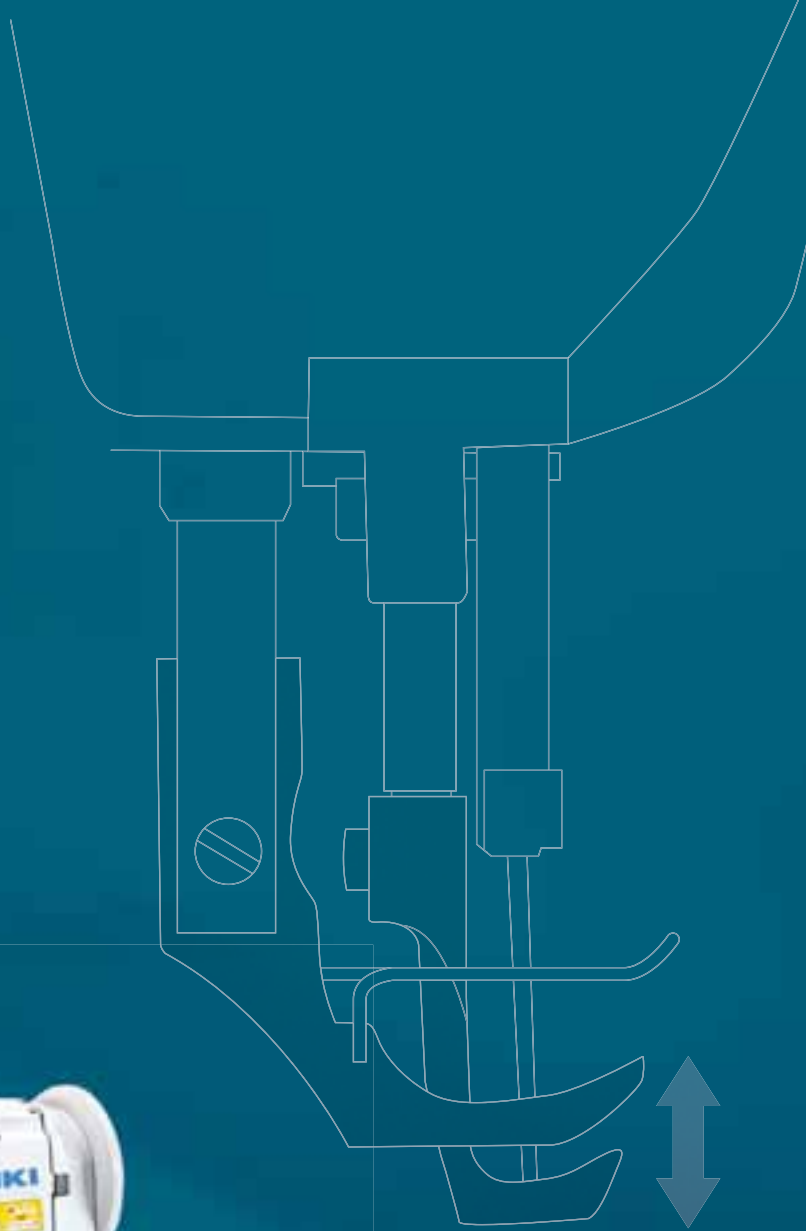


DNU-1541 Series

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

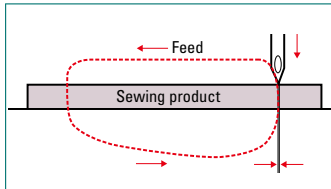
DNU-1541S (with safety mechanism)

DNU-1541-7 (with automatic thread trimmer)

Excellent sewing capabilities and feed performance.

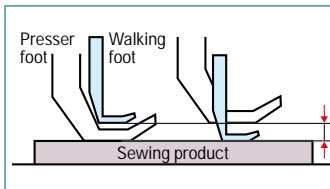
With its larger needlebar stroke, higher presser foot lift, and newly adopted double-tension mechanism, the machine offers excellent sewing capabilities and responsiveness.

Rectangular feed



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

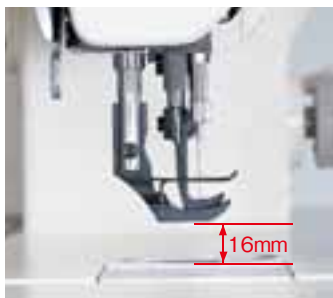
Alternating vertical movement mechanism



•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.

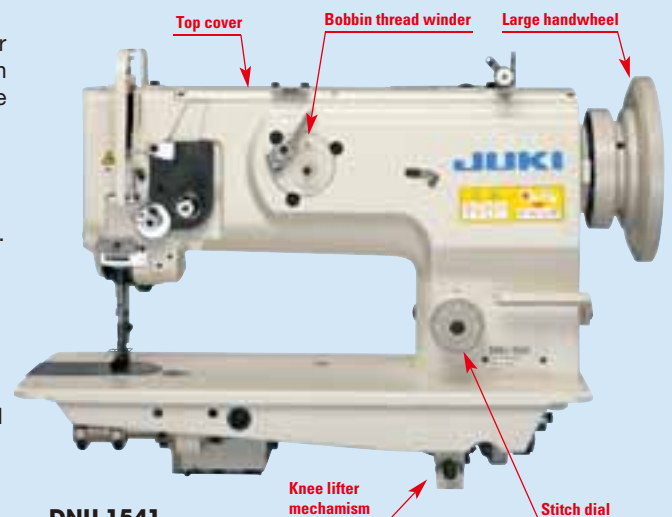
The stitch length can be easily selected by the stitch dial. The machine's enhanced operability features include a clear view of the area around the needle, placement of the bobbin thread winder on the front face of the machine arm, and a large handwheel ($\phi 160\text{mm}$).

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 | ○ | — |
| AK147B | | ○ | — | |
| DNU-1541-7 | Pneumatic auto-lifter+ Automatic reverse feed function | 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.



* 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 catalogue prints with environment-friendly soyink on recycle paper.



JUKI CORPORATION HEAD OFFICE.
An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(2) Green procurement and green purchasing
(3) Energy conservation (reduction in carbon-dioxide emissions)
(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.

Keystone Sewing Machine Company, Inc.
833 N 2nd Street, Philadelphia, PA 19123
215/922.6900 info@keysew.com
www.keysew.com