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

DNU-1541
DNU-1541S (with a safety mechanism)
DNU-1541-7 (with an automatic thread trimmer)

DNU-1541-7-0B/XC-E500
*XC-E500 control panel is optionally available.
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.

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

High-speed performance increases productivity.

- 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)

- 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 (160mm).
- 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 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.
The vertical stroke of the walking foot and presser foot can be easily set and changed.

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.

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.

### OPTIONS

#### Pneumatic auto-lifter

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine Speed</th>
<th>Type of Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumatic auto-lifter</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

* 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.

#### Automatic reverse feed function

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine Speed</th>
<th>Type of Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic reverse feed function</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

- 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).

#### Combination of optional devices

<table>
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<tr>
<th>Description</th>
<th>Machine Speed</th>
<th>Type of Thread</th>
</tr>
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<tbody>
<tr>
<td>Combination of optional devices</td>
<td>-</td>
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</table>

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

- Highly operable 3-pedal unit PK75

- XC-E500 control panel is optionally available.

- 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).
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.

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

[With an automatic thread trimmer]

DNU-1541-7-0B

* Select the auto-lifter code A (AK123B).

[PSC box/control panel for SC]

SC-380

[Motor for SC]

M

* JUS. North America and Central and South America.

OPTIONS

SPECIFICATIONS

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

[With an automatic thread trimmer]

DNU-1541-7-0B

* Select the auto-lifter code A (AK123B).

[PSC box/control panel for SC]

SC-380

[Motor for SC]

M

* JUS. North America and Central and South America.