**LU-2800V-7 Series**

Semi-dry Direct-drive, Unison-feed, Lockstitch Sewing System with automatic thread trimmer

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**Commitment to sewing**

Next-generation sewing system

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>LU-2828V-7</th>
<th>LU-2860V-7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>1-needle, Unison-feed, Lockstitch Sewing System (Shorter - thread remaining type)</td>
<td>2-needle, Unison-feed, Lockstitch Sewing System</td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>3,500sti/min</td>
<td>3,500sti/min</td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>9.0mm</td>
<td>12.0mm</td>
</tr>
<tr>
<td>Presser foot</td>
<td>20mm</td>
<td>20mm</td>
</tr>
<tr>
<td>Alternating vertical movement(DL)</td>
<td>9.0mm</td>
<td>9.0mm</td>
</tr>
<tr>
<td>Needle thread tension</td>
<td>0〜200</td>
<td>0〜200</td>
</tr>
<tr>
<td>Presser foot pressure</td>
<td>0〜200</td>
<td>0〜200</td>
</tr>
<tr>
<td>Hook</td>
<td>Vertical axis 2.7 fold-capacity hook</td>
<td>Vertical axis 2.0 fold-capacity hook</td>
</tr>
<tr>
<td>Needle</td>
<td>134x35 Nm140 (62°), Nm125〜180 (20〜24°)</td>
<td>134x35 Nm180 (62°), Nm125〜200 (20〜24°)</td>
</tr>
<tr>
<td>Thread</td>
<td>60/3〜203 (30〜46)</td>
<td>60/3〜103 (30〜40)</td>
</tr>
<tr>
<td>Machine head weight</td>
<td>66Kg</td>
<td>68Kg</td>
</tr>
</tbody>
</table>

### WHEN YOU PLACE ORDERS

**Machine head**

(1-needle type)

- Head type: 3,7,10-fold-capacity hook / Shorter - thread remaining type
- Needle type: Needle Gauge
- Nipper / one-touch type: reverse feed
- CL function: Not provided
- Option type: Attached

LU-2828VA7NBBS

(2-needle type)

- Head type: 2, 5, 10-fold-capacity hook / 12mm pitch
- Needle type: Needle Gauge
- Nipper / one-touch type: reverse feed
- CL function: Provided
- Option type: Not provided

LU-2860VAL70BBS

**Control box**

SC952A

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**Power supply**

- Single-phase 100〜120V: S
- Single-phase 200〜240V: D
- Single-phase 200〜240V (for general export): K
- Single-phase 200〜240V (for China): U

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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 catalogue prints with environment-friendly soy ink on recycle paper.

2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN
PHONE: (81) 42-357-2383
FAX: (81) 42-357-2274
http://www.juki.com

JULY, 2018 Printed in Japan(TN)
Management of sewing performance and sewing machine with JUKI's next-generation sewing system.

Machine is mounted with inbuilt NFC (Near Field Communication) and communication devices capable of a 2-way data transmission.

Semi-dry Direct-drive, 2-needle, Unison-feed, Lockstitch Sewing System with automatic thread trimmer (Vertical axis 2.7 fold-capacity hook / Shorter - thread remaining type)

**LU-2828V-7**

**Shorter - thread remaining type**

The shorter-thread remaining type LU-2828V-7 is a high-performance sewing machine. It leaves a shorter thread on the material at the beginning of sewing by means of the needle thread clamp device, as well as at the end of sewing by means of the thread trimmer which is provided with a shorter-thread remaining function. This means that manual thread nipping both at the beginning and at the end of sewing is no longer required, thereby helping reduce operator fatigue. Thanks to the adoption of a 2.7-fold hook, the frequency of bobbin thread changing is reduced and workability is improved.

**Beautiful finished seams**

*Needle thread clamping device*

This device pulls the needle thread into the wrong side of the material at the beginning of sewing, thereby ensuring more beautifully-finished seams.

**The shorter-thread trimming mechanism (needle thread roll-in and shorter-thread remaining type)**

The thread trimming mechanism has been completely renewed. The industry's shortest remaining thread length achieved by trimming the thread close to the fixed knife at the last stitch (condensed stitch).

(The length of remaining needle thread is 5mm)

**LU-2860V-7**

**Semi-dry Direct-drive, 2-needle, Unison-feed, Lockstitch Sewing System with automatic thread trimmer**

**Car seat**

**Bag**

**Sofa**

**The maximum stitch length is 12 mm**

This model is the most-desired sewing machine for sewing furniture such as sofas. It is best-suited to topstitching with a stitch length of maximum 12mm - pitch. During the topstitching process, the longer distance from the machine arm to the bed, in particular, effectively demonstrates the machine's improved workability.

**Maintenance work carried out safely (Standby switch)**

When the standby switch is pressed, the sewing machine does not start unexpectedly even if the pedal is depressed. When the standby switch is pressed, operations through the operation panel, and with the machine 6-string switch and jog dial are also disabled, thereby allowing sewing-machine maintenance work such as threading, needle replacement, gauge replacement to be carried out safely.

(In this case, the pulley can be turned by hand.)

**High-torque direct-drive motor is installed**

The direct-drive motor system has been adopted by all of the sewing system with a thread trimmer. As a result, the sewing machine starts up swiftly and promises increased stop accuracy, thereby demonstrating improved responsiveness.

**LED Light**

The LED light can adjust the light intensity to 5 levels, and Off setting is also possible. The operator can set the brightness which is easy to work, improving work efficiency.
Various digitalized functions

Management of sewing performance and sewing machine by the utilization of IoT (Internet of Things)

Management, browsing and editing of data can be carried out on the application software

Data on sewing machine adjustments made according to the product to be sewn can be transferred to a commercially-available Android tablet in contactless mode. This enables quick check for uniform settings as well as confirmation of conditions of sewing machines in a sewing line, thereby facilitating setup changes. The operation panel is also provided as standard with a USB port. Data management and software update can be carried out with ease using a USB thumb drive.

Data items of sewing can be numerically managed to ensure "stable quality" and reduction in time required for setup changes. Quantified sewing data can be externally taken from the sewing machine using an Android tablet or USB thumb drive.

Android OS Version 6.0 is recommended to use JUKI Smart APP. (Operation is confirmed with respect to Versions 5.0 and later.)

Contact JUKI distributor in your area for how to use the application software.

Energy-saving effect

Automatic OFF function of the operation-panel backlight

The operation-panel light can be turned OFF after a lapse of the preset time.

Sleep mode (Automatic power-OFF function)

If no operation is carried out for a predetermined period of time, the power supplies to the motor, etc. can be automatically turned OFF.

Adoption of the needle-thread active tension

Adjustment of sewing condition is displayed on one screen

Sewing conditions can be set easily since sewing conditions such as thread tension, stitch length, presser foot pressure, alternate vertical movement amount, etc. are displayed on one screen.

Needle thread tension is digitally controlled

The needle thread tension which matches sewing conditions given can be set on the operation panel and stored in memory. The needle thread tension adjustment needs experience. However, for this sewing machine, thread tension data stored in memory is reproducible, thereby reducing the setup time when the product to be sewn is changed.

Example : Needle-thread active tension demonstrates its effectiveness in the topstitching process.

Active presser foot pressure mechanism

The presser foot pressure is digitally controlled

Digital control system controls the presser foot pressure. Under the automatic mode, the multi-layered section detection function detects changes in material thickness to increase/decrease the presser foot pressure accordingly. Under the manual mode, the presser foot pressure control function is assigned to the hand switch to enable operation with the hand switch.

Best-suited stitches are produced at multi-layered parts of material.

Multi-layered part detection function

Multi-layered parts of material which occur in the case two or more plies of material are sewn or different kinds of material are sewn can be detected by the multi-layered part detection function to change over the stitch length, thread tension, presser foot pressure and amount of alternate vertical movement to those that have been predetermined for sewing those parts of material.

Setting of thresholds for the multi-layered part detection

Under the teaching mode for the multi-layered part changer ON sensor value, the material thickness at the normal part and that at the multi-layered part of material can be measured with ease. The automatically-measured thresholds can be set as those for the multi-layered part detection.

Other continuous sewing conditions

For settings corresponding to continuous sewing conditions (polygonal shape stitching function), more beautifully finished seams are produced by using various functions (custom-pitch setting function, reverse-feed stitching function).

Example) Sewing conditions in the case of using the polygonal-shape stitching function (LU-2828V-7)

In the case of sewing materials 1 and 2 that differ in thickness to the base material (material thickness), the sewing conditions can be easily changed over to the best-suited ones on a step-by-step basis. (The number of stitches, one-touch changeover and multi-layered part detection are used as the step-by-step changeover triggers.)
LU-2828V-7 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

### Cover Sensor Unit
The cover sensor unit detecting ①, ②, and ③ (shown below) are closed tightly during sewing, thereby preventing the sewing machine from starting up unexpectedly. ①, ②, and ③ can be used discretely.

1. **Eye guard with an open/close sensor**
   - Prevents the thread from flying off if the eye guard is open, the sewing machine will not start even if the operator forgets to turn the power off.

2. **Bed slide with an open/close sensor**
   - Prevents thread and material from being caught in the handwheel if the throat plate is open.

3. **Handwheel cover with an open/close sensor**
   - Prevents thread and material from being caught in the hook during sewing.

### Skip Stitch Detector
Stitch skipping is detected during sewing. This helps lighten the operator’s inspection work load and also prevents defective products from being shipped. In the case where a skipped stitch is detected, the buzzer sounds up and the sewing machine will not start up unexpectedly even if the operator forgets to turn the power off.

### Bobbin Thread Remaining Detector
The buzzer sounds up when the amount of thread remaining on the bobbin reaches a predetermined length. It is also possible to stop the sewing machine at this point. With this function, the operator is allowed to concentrate on sewing work without caring about the amount of thread remaining on the bobbin.

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**List of Gauges (1-needle type)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Throat plate</th>
<th>Feed dog</th>
<th>Walking foot</th>
<th>Presser foot</th>
<th>Slide plate of left</th>
<th>Slide plate of right</th>
<th>Front bed slide</th>
</tr>
</thead>
<tbody>
<tr>
<td>LU-2828V-7</td>
<td>40190399</td>
<td>40135816</td>
<td>10711663</td>
<td>10712552</td>
<td>40127056</td>
<td>40114794</td>
<td>40182128</td>
</tr>
<tr>
<td>LU-2828V-SD</td>
<td>40190370</td>
<td>40135816</td>
<td>10711663</td>
<td>10712552</td>
<td>40127056</td>
<td>40114794</td>
<td>40182128</td>
</tr>
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</table>

**Optional walking foot for the LU-2828V-7**

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Walking foot</th>
<th>Presser foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>6mm</td>
<td>10747862</td>
<td>10747859</td>
</tr>
<tr>
<td>5mm</td>
<td>10747862</td>
<td>10747859</td>
</tr>
<tr>
<td>4mm</td>
<td>10747861</td>
<td>10747867</td>
</tr>
<tr>
<td>3mm</td>
<td>10747861</td>
<td>10747867</td>
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</tbody>
</table>

**For general piping**

- Needle with a diameter of 1 mm or less
- Needle with a diameter of 1.5 mm or less
- Needle with a diameter of 2 mm or less

**List of Gauges (2-needle type)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Throat plate</th>
<th>Feed dog</th>
<th>Needle clamp</th>
<th>Presser foot</th>
<th>Slide plate</th>
<th>Front bed slide</th>
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<tbody>
<tr>
<td>LU-2860V-7</td>
<td>40160495</td>
<td>40126145</td>
<td>40126144</td>
<td>40126143</td>
<td>40126142</td>
<td>40114794</td>
</tr>
<tr>
<td>LU-2860V-7/SD</td>
<td>40160493</td>
<td>40126142</td>
<td>40126143</td>
<td>40126144</td>
<td>40126145</td>
<td>40114794</td>
</tr>
<tr>
<td>LU-2860V-7/B</td>
<td>40039271</td>
<td>40038810</td>
<td>40038808</td>
<td>40038807</td>
<td>40038806</td>
<td>40114794</td>
</tr>
<tr>
<td>LU-2860V-7/BD</td>
<td>40039271</td>
<td>40038809</td>
<td>40038808</td>
<td>40038807</td>
<td>40038806</td>
<td>40114794</td>
</tr>
<tr>
<td>LU-2860V-7/SBD</td>
<td>40039271</td>
<td>40038808</td>
<td>40038807</td>
<td>40038806</td>
<td>40038805</td>
<td>40114794</td>
</tr>
</tbody>
</table>

**Optional walking foot for the LU-2860V-7**

<table>
<thead>
<tr>
<th>Needle diameter (mm)</th>
<th>Model</th>
<th>Throat plate</th>
<th>Presser foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>LU-2860V-7</td>
<td>40155087</td>
<td>40114794</td>
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<tr>
<td>5</td>
<td>LU-2860V-7</td>
<td>40155087</td>
<td>40114794</td>
</tr>
<tr>
<td>4</td>
<td>LU-2860V-7</td>
<td>40155087</td>
<td>40114794</td>
</tr>
</tbody>
</table>

**List of Gauges for the LU-2828V-7**

- Presser foot with center guide for the LU-2860V-7
- Side plate with a window for the LU-2860V-7
- Optional walking foot for the LU-2860V-7

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For details of JUKI ECO PRODUCTS, refer to: [http://www.juki.co.jp/eco_e/index.html](http://www.juki.co.jp/eco_e/index.html)

The sewing machine complies with the “Juki Group Green Procurement Guidelines” on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

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