The LH-3500A Series which improves 2-needle sewing machine's seam quality is now launched.

Adoption of the direct-drive mechanism promises energy-saving and increased workability.

The LH-3500A Series
Semi-head, 2-needle Lockstitch Machine

SPECIFICATIONS

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Light-weight</td>
<td>Foundation</td>
<td>Medium-weight</td>
<td>Jeans and heavy-weight</td>
<td>Medium-weight</td>
<td>Jeans and heavy-weight</td>
</tr>
<tr>
<td>Organized split needle bar mechanism</td>
<td>Not provided</td>
<td>Provided as standard</td>
<td>Not provided</td>
<td>Provided as standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hook</td>
<td>Vertical axis regular hook</td>
<td>Vertical axis 1.8 times large hook</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Semi-dry / hook section: minute-quantity lubrication (tank system)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>3,000sti/min*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from needle to machine arm</td>
<td>120mm (H) × 206mm (W) × 67mm (height of jaw part)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feed system</td>
<td>Changeover between the needle feed and bottom feed</td>
<td>Needle-feed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>5mm</td>
<td>4mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>30.4mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread take-up</td>
<td>Slide type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensioner</td>
<td>Independence right and left needles type (lockstitch type)</td>
<td>Standard type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread winder</td>
<td>Built-in the machine head</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lift of the presser foot</td>
<td>7mm (by hand), 13mm (by knee)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil type</td>
<td>Eco-oil method (circulation type), Clean oil method</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank capacity</td>
<td>280cm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>JUKI New Defrix Oil No.1 (equivalent to ISO VG32)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Needle</td>
<td>DPH×5(#9) #9=116</td>
<td>DPH×5(#10) #9=116</td>
<td>DPH×6(#11) #10=133</td>
<td>DPH×6(#12) #11=150</td>
<td>DPH×6(#13) #12=167</td>
<td>DPH×6(#14) #13=184</td>
</tr>
<tr>
<td>Outside dimensions of package (mm)</td>
<td>LH-3528A/3568A/3578A/3588A : 718mm (H) × 341mm (W) × 744mm (L)</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Machine head weight (including the package)</td>
<td>LH-3528A/3568A/3578A/3588A : 48kg</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>LH-3528A/3568A/3578A/3588A : 41kg (with AK: 63kg)</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

■ MOTOR BELT SELECTION TABLE (for sewing machines without thread trimmer)

<table>
<thead>
<tr>
<th>Sewing speed (sti/min)</th>
<th>Motor pulley</th>
<th>Belt</th>
</tr>
</thead>
<tbody>
<tr>
<td>50Hz</td>
<td>Part No.</td>
<td>Length (inch)</td>
</tr>
<tr>
<td>3,000</td>
<td>75</td>
<td>MTJVM0003000</td>
</tr>
<tr>
<td>2,790</td>
<td>70</td>
<td>MTJVM0005000</td>
</tr>
<tr>
<td>2,580</td>
<td>85</td>
<td>MTJVM0006000</td>
</tr>
<tr>
<td>2,370</td>
<td>100</td>
<td>MTJVM0005000</td>
</tr>
</tbody>
</table>

*“sti/min” stands for “Stitches per Minute.”

Adoption of the direct-drive mechanism promises energy-saving and increased workability.

The LH-3500A Series which improves 2-needle sewing machine's seam quality is now launched.
Adoption of the direct-drive mechanism enhances energy conservation and workability, and increases the needle’s material penetrating force.

**Energy-saving**
- Reduced by 21%
  - Adoption of a compact motor for the direct-drive mechanism and the newly developed control box (SC-920A) decrease power consumption by approximately 21%.

**Operability**
- Adoption of the direct-drive mechanism improves stop accuracy and responsiveness, leading to increased working efficiency.

**Material penetrating force**
- Increased by 32%
  - Adoption of a high-torque type 550W motor promises added material penetrating force when the sewing machine sews multi-layered parts of heavy-weight material.

The LH-3500A Series has made further progress. This is the cutting-edge model 2-needle sewing machine which comes with substantially enhanced mechanisms such as the direct-drive mechanism, semi-dry head, new thread tension control mechanism and improved oiling system.

A semi-dry head is now installed in all of the models of the LH-3500A Series.

All models of the LH-3500A Series are provided with a semi-dry head to eliminate staining with oil from the frame (the needle bar part).

The sewing machine with organized split needle bars is only available from JUKI.

The sewing machine with organized split needle bars is the only sewing machine in the industry that comes with the semi-dry head. It helps reduce poor-quality products due to oil stains even in the case of product items which have corner stitching sections.

The "large-hook type" uses a hook 1.8 times larger than standard.

This increase in size reduces the frequency of bobbin-thread changes.

The sewing machine has been designed to eliminate waste time and the operator's stress.

**Without thread trimmer**

- The drive method is the V-belt method by means of an externally-mounted motor.

**With organized split needle bar**

- The aforementioned description applies to the LH-3528A-7 (direct-drive sewing machine with automatic thread trimmer. Large-hooks type). Other LH-3500A-7 series (i.e., LH-3568A-7/3578A-7/3588A-7) and the LH-3500A series without thread trimmer such as LH-3528A/3568A/3578A/3588A * The dimple box and bobbin case shown in the upper part of the picture are those for the large hook.

Many different models are prepared according to the type of materials.

From a wide variety of models, the best-suited model can be chosen according to your sewing items, ranging from light- to heavy-weight materials.

- LH-3528A/3578A/3588A-7
- LH-3528A/3578A-7
- LH-3568A/3588A

The LH-3528A-7 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

- The semi-dry head sewing machine with organized split needle bars is only available from JUKI.

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

* The newly-developed control box SC-920A is the first control box to come with a power-saving mode for the sewing machine and to withstand voltage fluctuations, noise and vibration.

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Responsiveness to materials has been thoroughly investigated to improve "seam" quality.

A thread tension control mechanism has been developed for each type of sewing machine in order to achieve the best-suited thread tension for its purpose. The sewing machine for jeans and heavy-weight materials (G type) produces well-tensed seams by the optimization of the feed mechanism. Furthermore, the G type machine comes with the new thread trimmer mechanism which promises increased reliability.

The best-suited thread tension is achieved according to the sewing specifications

Two different types of thread tension controllers have been developed.

The needle tension controller comes in two different mechanisms according to the type of sewing machine. For the A and F types, seam quality free from puckering and irregular stitches is promised. For the S and G types, the sewing range has been broadened to produce well-tensed seams even when thick thread is used.

Material-friendly micro-lifter mechanism

Our direct-acting thread trimmer mechanism, which spreads thread without tail, has been further improved. The thread trimmer trims the needle thread and bobbin thread without tail even when thick thread is used. In addition, the thread trimmer’s bobbin thread retaining force has been increased.

The internal mechanism of the sewing machine has been thoroughly re-investigated to achieve further improvement of maintainability and workability. JUKI does not cut corners on the quality of those parts which are normally invisible, such as in the internal section of the sewing machine. This represents JUKI’s craftsmanship.

The feed method can be easily changed over

The location of the oil tank has been changed to the inside of the sewing machine through our re-investigation of the lubricating method. As a result, space is secured under the bed surface to facilitate changeover of the feed method between the "needle feed" and "bottom feed" and changeover of the feed timing (re-placement of the timing belt).

Two selectable new-method oiling mechanisms

Eco-oil method (circulation type)

The oil dropped from the hook and its surrounding sections into the under-cover is filtered to remove dirt and dust and is then returned to the oil tank. This method saves the effort of oiling and reduces oil consumption.

Clean oil method

The oil dropped from the hook and its surrounding sections into the under-cover is not returned to the oil tank, but only clean oil is supplied to the hook at all times.

The oiling method can be changed over as desired.

Changeover between the needle feed and bottom feed

For the process of sewing light-weight materials or the like, puckering has to be prevented. In this case, the feed method can be changed over to the bottom feed through an easy adjustment and change of the gauge. In comparison with the needle feed, the bottom feed works to prevent puckering and enables sewing with a lower thread tension.

Gauge for tape attaching (corresponding attachment classification code “T” for tape attaching; LH-3528A-F: Only the sewing machine for foundation)

The gauge for tape attaching consists of the throat plate for tape attaching, presser foot with guide and bed slide. The sewing machine with the standard gauge can be changed to the tape attaching type sewing machine by changing the gauge with the gauge for tape attaching. (re-placement of the timing belt).

Slide plate (this side) : Part No. 23206709

This reduces the height when the tape-attaching holder is fed on the machine.

Dry  Oiling  Oil  Hook part  Oiling  Circulation filter  Clean oil method  Eco-oil method  Changeover  Needle-feed  Bottom-feed

The LH-3528A supports, as standard, the feed type change-over function between the needle feed and bottom feed. Contact JUKI for information on the models other than the LH-3528A.

Oiling method can be changed over as desired.

The LH-3528A supports, as standard, the feed type change-over function between the needle feed and bottom feed. Contact JUKI for information on the models other than the LH-3528A.

Oiling methods can be changed over as desired.

The LH-3528A supports, as standard, the feed type change-over function between the needle feed and bottom feed. Contact JUKI for information on the models other than the LH-3528A.

Oil methods can be changed over as desired.

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Oiling methods can be changed over as desired.
The operation panels CP-18A and CP-180A are provided with a production support function. Operation measuring function

- Sewing machine availability display mode
  Under the sewing machine availability display mode, the average sewing machine availability in the previous cycle and the current cycle is displayed.

- Pitch time display mode
  Under the pitch time display mode, the average process machining time in the previous cycle and the current cycle is displayed.

- Average speed of stitch display mode
  Under the average speed of stitch display mode, the accumulated speed of stitch in the previous cycle and the current cycle is displayed.

Since the sewing machine operation status, pitch time (process machining time), can be automatically measured, process analysis, line arrangement and confirmation of facility efficiency can be obtained with ease. As a result, the man-hours required for production control are reduced.

Bobbin counter function

- Bobbin counter display mode
  The operator is notified that the bobbin needs to be replaced before the bobbin thread runs out.

Since the operator is notified of the time to replace the bobbin, the operator’s work load is considerably reduced. Additionally, the operator can check the remaining sewing length and replace the bobbin thread during a break, which helps the operator maintain a stress-free environment without worrying about needle-hole damage to the material, which is likely to be made when sewing without bobbin thread.

Control box

Power supply

- Single-phase 100-120V
- Three-phase 200-240V

Seam application

- Single-phase 200-240V (for China)
- Single-phase 200-240V (for General Export)
- Single-phase 200-240V (for CE)
- Single-phase 200-240V (for CE)
- Single-phase 200-240V (for China)

Without automatic thread trimmer

Machine head Code
- Standard hooks 28
- Organized split needle bar, standard hooks 68
- Large hooks 78
- Organized split needle bar, large hooks 88

Seam application Code
- Light-weight S
- Medium-weight S
- Jeane and heavy-weight G

Feed system

- Needle-feed A
- Bottom-feed B

Seam application Code
- Light-weight A
- Medium-weight S
- Jeans and heavy-weight G

Without automatic thread trimmer

Machine head Code
- Standard hooks 28
- Organized split needle bar, standard hooks 68
- Large hooks 78
- Organized split needle bar, large hooks 88

Seam application Code
- Light-weight A
- Medium-weight S
- Jeane and heavy-weight G

Needle gauge

- LH-3528A
- LH-3568A
- LH-3578A
- LH-3588A

- Only the seam application “G” is available for the LH-3578A and LH-3588A.
- The needle gauge up to 47.0mm is applicable.
- A gauge designed for factory-installation to the bottom feed model at delivery.
- A gauge available as a part.
- A gauge designed for factory-installation at delivery.
- A gauge available as a part.
- A gauge designed for factory-installation at delivery.

- To order, please contact your nearest JUKI distributor.