

JUKI®

LH-3500 Series

2-needle, Semi-dry-head, Lockstitch Machine

LH-3528 / LH-3528-7
LH-3578 / LH-3578-7

(with organized split needle bar)
LH-3568 / LH-3568-7
LH-3588 / LH-3588-7



A semi-dry head is now installed in every model of the LH-3500 series.

LH-3500 series

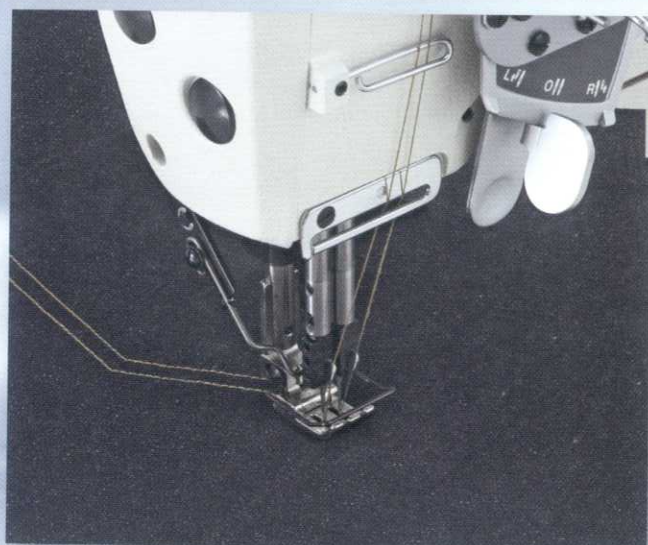
An operators using the LH-3500 can easily adjust the seams after changing sewing conditions such as the material, thread, tooling, and settings.

The LH-3500 is a basic 2-needle model with upgraded functions and a reasonable cost.



(Standard hooks) LH-3528/3528-7

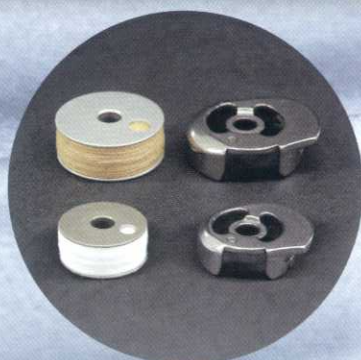
(Large hooks) LH-3578/3578-7



(with organized split needle bar)

(Standard hooks) LH-3568/3568-7

(Large hooks) LH-3588/3588-7



The "large-hook type" uses a hook 1.7 times larger than standard. This increase in size reduces the frequency of bobbin-thread changes.

※ LH-3578/3578-7, LH-3588/3588-7

※ The picture shows the cap-type hook for the LH-3568/-3568-7 and LH-3588/-3588-7. The LH-3528/-3528-7 and LH-3578/-3578-7 use a latch-type hook.

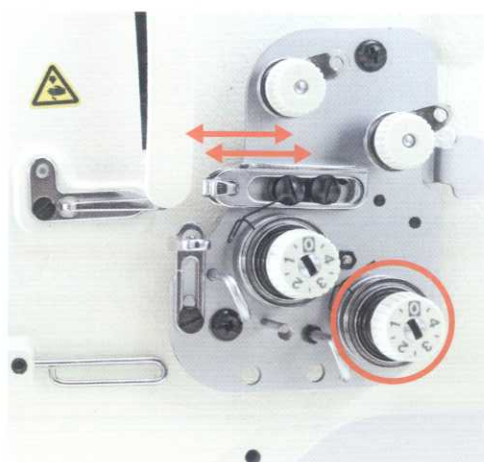
The machine supports a broader range of sewing specifications.

The LH-3500 has a broader range of thread tensions compared to predecessor models.

With its widely adjustable thread tensions, the LH-3500 can sew materials of many weights, from light to heavy.

A thread tensioner is provided for each thread

The needle thread tensioner uses the same type of thread tension controller used in the JUKI series of 1-needle lockstitch machines. The right- and left-thread tensions are separately controlled by independent thread tensioners to facilitate adjustment. The operator can also use separately adjustable take-up thread guides on the right and left to sew with thread tensions exactly as desired.



Tensioner

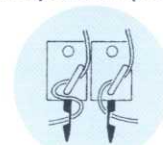
New wire-type needle bar thread guide

The machine comes with a newly developed needle clamp to increase the stability of needle-thread loops and to reduce untwining of the thread. The needle clamp works to improve the right and left seam balance and prevent thread breakage, in an idling stitching process, by changing needle threading according to the type and thickness of thread.

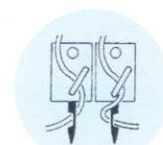


LH-3568-7

Changing the needle-threading: An example of the procedure



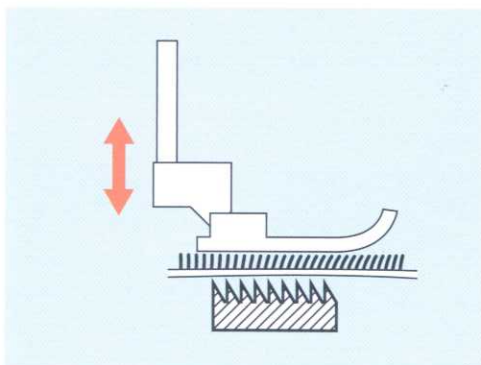
Filament thread (high-count)



Filament thread
(medium- to low-count),
Span thread

Material-friendly micro-lifter

The "presser foot" can be lifted by a minute amount by adjusting the "eccentric pin" located in the presser lifter lever section. When working on shaggy and elastic fabrics, the operator slightly lifts the presser foot to reduce the load applied to the sewing material. Fabrics are handled more easily and finished without sacrifices in the inherent beauty of the color or texture.

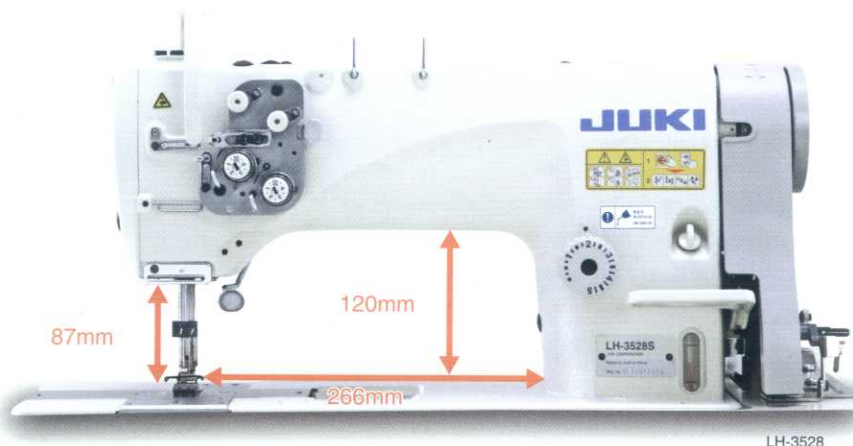


Upgraded workability and reliability

The increased width and height between the arm and needle help reduce operator fatigue. A new and more reliable thread-trimming mechanism is also adopted.

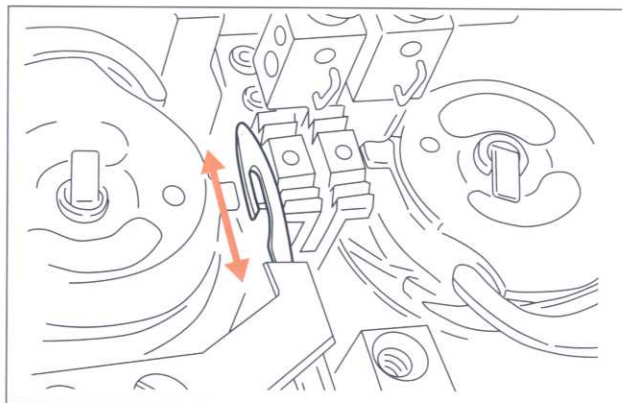
The increased distance from the machine arm to the needle promises enhanced workability

The high-&-long design of the machine arm is adopted. This extends the height of the arm and distance between the arm and needle, securing more space for the handling of larger products such as jeans. The open space also improves visibility by allowing in more light from luminaires and other light sources.



New, highly reliable thread-trimming mechanism

The thread-trimming mechanism has been completely changed from a conventional rocking type to a direct-acting type. The direct-acting thread-trimming mechanism trims both the needle thread and bobbin thread with complete uniformity and reliability by ensuring that the threads spread consistently. As an added merit, the bobbin-thread-retention function has improved maintainability as well as adjustability.



Optional functions (only for the LH-3528)

● Changeover between the needle feed and bottom feed

To sew lighter-weight materials without puckering, the feed method can be changed over to bottom feed through a simple adjustment and gauge replacement. The bottom feed method prevents puckering more effectively and enables sewing at lower thread tensions compared with the needle feed method.



| Needle-feed gauge | | |
|-------------------|--------------|----------|
| | | |
| Presser foot | Throat plate | Feed dog |
| Bottom-feed gauge | | |
| | | |
| Presser foot | Throat plate | Feed dog |

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

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

Two oiling systems newly adopted

(1) Oil circulation system (standard)

The oil which drops from the area surrounding the hook into the under cover is purified with a circulation filter and then returned to the oil tank. This reduces oil consumption and liberates users from cumbersome oiling work.

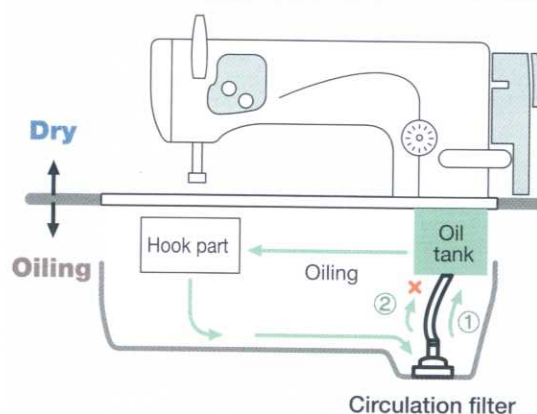
(2) Clean oil system

The oil which drops from the area surrounding the hook part into the under cover is never circulated. Only clean oil is fed to the hook.

※ Two different oiling systems can be selected.



Oil tank



Picture of oil circulation

Options

Throat plate for tape attaching

The throat plate is designed with a hollow on the side facing the operator. This hollow helps smooth the feeding of tape.

(for foundation type)



| inch | mm | Part No. |
|------|-----|----------|
| 1/8 | 3.2 | 22628002 |
| 3/16 | 4.8 | 22628200 |
| 7/32 | 5.6 | 22628309 |
| 1/4 | 6.4 | 22628408 |
| 9/32 | 7.1 | 22628507 |
| 5/16 | 7.9 | 22628606 |

Kit A for one-touch type reverse feed

: Part No. 40041976

Kit B for one-touch type reverse feed

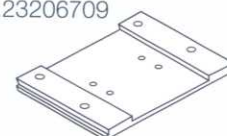
: Part No. 40051460

Automatic back-tucking device can be retrofitted to the machine with no thread trimmer.

*Kit B for one-touch type reverse feed contains kit A for one-touch type reverse feed, a built-in synchronizer, a resistor pack and a pulley.

Slide plate (this side): Part No.23206709

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



■ WHEN YOU PLACE ORDERS

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

- Without automatic thread trimmer

| Dry type | Code |
|---------------|------|
| Semi-dry-head | S |

| Seam application | Code | | | |
|------------------------|---------|---------|---------|---------|
| | LH-3528 | LH-3568 | LH-3578 | LH-3588 |
| Light-weight | A | – | – | – |
| Foundation | F | – | – | – |
| Medium-weight | S | S | – | – |
| Jeans and heavy-weight | G | G | G | G |

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

| Wiper and one-touch type reverse feed | | |
|---------------------------------------|-----------------------------|------|
| Wiper | One-touch type reverse feed | Code |
| Not provided | Not provided | 00 |
| Not provided | Provided | 0B |

| Feed system | Code |
|-------------|------|
| Needle-feed | A |
| Bottom-feed | B |

※ Feed system B (bottom feed) is applicable to all models grouped into Seam application A and Seam application F is only applicable to the needle gauge system B, D or F.

| | |
|---------------------------|------|
| Attachment (throat plate) | Code |
| Standard | S |
| For tape attaching | T |

※ "T" represents the presser foot with a guide, throat plate for tape attachment, and slide plate for tape attachment.
Attachment "T" is only available with the LH-3528F (for the foundation seam specification).

| | |
|--------------|-------|
| Auto-lifter | Code |
| Not provided | |
| Provided | AK135 |

- ※ Models with the AK device are only applicable to Seam application F (Foundation).
- ※ The clutch motor cannot be used for models with the AK device.



| Code | Needle gauge | | Seam application | | | | | | | |
|------|--------------|------|------------------|---|---|---|---------|---|---------|---------|
| | | | LH-3528 | | | | LH-3568 | | LH-3578 | LH-3588 |
| | inch | mm | A | F | S | G | S | G | G | G |
| A | 3/32 | 2.4 | △ | | | | | | | |
| B | 1/8 | 3.2 | ○ | ○ | △ | △ | △ | △ | △ | △ |
| C | 5/32 | 4.0 | △ | | △ | | △ | | | |
| D | 3/16 | 4.8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| E | 7/32 | 5.6 | | ○ | △ | △ | ○ | △ | △ | △ |
| F | 1/4 | 6.4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| G | 9/32 | 7.1 | △ | ○ | △ | △ | △ | △ | △ | △ |
| H | 5/16 | 7.9 | △ | ○ | ○ | △ | △ | △ | △ | △ |
| K | 3/8 | 9.5 | △ | | ○ | △ | ○ | △ | △ | △ |
| W | 7/16 | 11.1 | | | △ | △ | | △ | △ | △ |
| L | 1/2 | 12.7 | △ | | △ | △ | △ | △ | △ | △ |
| M | 5/8 | 15.9 | | | △ | △ | △ | △ | △ | |
| N | 3/4 | 19.1 | △ | | △ | △ | △ | △ | △ | |
| P | 7/8 | 22.2 | ○ | | △ | △ | △ | △ | △ | |
| Q | 1 | 25.4 | ○ | | ○ | △ | △ | △ | △ | |
| R | 1-1/8 | 28.6 | △ | | △ | △ | | | △ | |
| S | 1-1/4 | 31.8 | △ | | △ | △ | | | △ | |
| T | 1-3/8 | 34.9 | | | △ | △ | | | △ | |
| U | 1-1/2 | 38.1 | | | △ | △ | | | △ | |

- : A gauge designed for factory-installation at delivery
- ◐ : A gauge designed for factory-installation to the bottom feed model at delivery
- △ : A gauge available as a part

- With automatic thread trimmer

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

| | |
|---------------|------|
| Dry type | Code |
| Semi-dry-head | S |

| | |
|------------------------|------|
| Seam application | Code |
| Medium-weight | S |
| Jeans and heavy-weight | G |

※ Only the seam application G is available for the LH-3578-7 and -3588-7.

LH-35 ☐ ☐ S ☐ ☐ 7WB ☐ ☐ ☐ ☐ ☐

| Wiper and one-touch type reverse feed | | |
|---------------------------------------|-----------------------------|------|
| Wiper | One-touch type reverse feed | Code |
| Provided | Provided | WB |

| | |
|--------------|-------|
| Auto-lifter | Code |
| Not provided | |
| Provided | AK135 |

| Code | Needle gauge | | Seam application | | | | | |
|------|--------------|------|------------------|---|-----------|---|-----------|-----------|
| | | | LH-3528-7 | | LH-3568-7 | | LH-3578-7 | LH-3588-7 |
| | inch | mm | S | G | S | G | G | G |
| A | 3/32 | 2.4 | | | | | | |
| B | 1/8 | 3.2 | △ | △ | △ | △ | △ | △ |
| C | 5/32 | 4.0 | △ | | △ | | | |
| D | 3/16 | 4.8 | ○ | ○ | ○ | ○ | ○ | ○ |
| E | 7/32 | 5.6 | △ | | ○ | | | △ |
| F | 1/4 | 6.4 | ○ | ○ | ○ | ○ | ○ | ○ |
| G | 9/32 | 7.1 | △ | | △ | | | |
| H | 5/16 | 7.9 | △ | △ | △ | | △ | △ |
| K | 3/8 | 9.5 | ○ | △ | △ | △ | △ | △ |
| W | 7/16 | 11.1 | | | | | | |
| L | 1/2 | 12.7 | △ | △ | △ | △ | △ | △ |
| M | 5/8 | 15.9 | △ | | △ | | | |
| N | 3/4 | 19.1 | △ | △ | | △ | | |
| P | 7/8 | 22.2 | △ | | | | | |
| Q | 1 | 25.4 | △ | | | | | |
| R | 1-1/8 | 28.6 | △ | | | | | |
| S | 1-1/4 | 31.8 | △ | | | | | |
| T | 1-3/8 | 34.9 | | | | | | |
| U | 1-1/2 | 38.1 | | | | | | |

○ : A gauge designed for factory-installation at delivery
△ : A gauge available as a part

● To order, please contact your nearest JUKI distributor.

SPECIFICATIONS

| Model name | LH-3500 Series | |
|---|--|--------------------------|
| Application | A: Light-weight, S: Medium-weight, F: Foundation, G: Jeans and heavy-weight | |
| Dry type | Semi-dry-head | |
| Max. sewing speed | 3,000rpm | |
| Distance from needle to machine arm | 120mm(H)×266mm(W)×87mm(Height of jaw part) | |
| Needle gauge | LH-3528 | 3/32"~1-1/2"(2.4~38.1mm) |
| | LH-3528-7 | 1/8"~1-1/4"(3.2~31.8mm) |
| | LH-3568 | 1/8"~3/4"(3.2~19.1mm) |
| | LH-3568-7 | 1/8"~3/4"(3.2~19.1mm) |
| | LH-3578 | 3/16"~1-1/2"(4.8~38.1mm) |
| | LH-3578-7 | 3/16"~1/2"(4.8~12.7mm) |
| | LH-3588 | 3/16"~1/2"(4.8~12.7mm) |
| | LH-3588-7 | 3/16"~1/2"(4.8~12.7mm) |
| Feed system | Changeover between the needle feed and bottom feed | |
| Max. stitch length | 5mm (F type: 4mm) | |
| Needle bar stroke | 33.4mm | |
| Thread take-up | Slide type | |
| Tensioner | Integral type (lockstitch type) | |
| Thread winder | Belt-driven | |
| Lift of the presser foot | Standard hooks : 7mm(by hand), 13mm(by knee) / Large hooks : 7mm(by hand), 13mm(by knee) | |
| Lubrication system | Oil circulation system (standard), Clean oil system | |
| Tank capacity | 220cm ³ | |
| Lubricating oil | JUKI New Defrix Oil No.1 | |
| Needle | DP×5 #9~#16 (A, F and S type) #16~22 (G type) | |
| Outside dimensions of package | 718mm(H)×341mm(W)×744mm(L) | |
| Machine head weight (including the package) | LH-3528/3568/3578/3588:48kg , LH-3528-7/3568-7/3578-7/3588-7:50kg | |

MOTOR PULLEY · BELT

Without automatic thread trimmer

| Motor pulley | | Number of revolutions (rpm) | | Belt | |
|-----------------------|-------------|-----------------------------|-------|---------------|-------------|
| Outside diameter (mm) | Part No. | 50Hz | 60Hz | Length (inch) | Part No. |
| 75 | MTKP0070000 | 3,000 | - | 43 | MTJVM00430A |
| 70 | MTKP0065000 | 2,790 | - | | |
| 65 | MTKP0060000 | 2,580 | 3,000 | 42 | MTJVM00420A |
| 60 | MTKP0055000 | 2,370 | 2,740 | | |

With automatic thread trimmer

| Control box | Belt | |
|-------------|---------------|-------------|
| Model | Length (inch) | Part No. |
| SC-500 | 43 | MTJVM00430A |