<table>
<thead>
<tr>
<th>MO-6900R Series</th>
<th>High-speed, Variable Top-feed, Overlock / Safety Stitch Machine</th>
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</thead>
</table>

**SPECIFICATIONS**

When you place orders, please note that the model name should be written as follows:

**Stitch type**

<table>
<thead>
<tr>
<th>504</th>
<th>514</th>
<th>516</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-needle overlock</td>
<td>2-needle overlock</td>
<td>2-needle safety stitch</td>
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</tbody>
</table>

**Stitch style in the U.S.A.**

**High-speed, Variable Top-feed, Overlock / Safety Stitch Machine**

- **Max. sewing speed:** 7,000sti/min (longitudinal stroke of top feed dog is 3.2mm (AK48/49/SY49))
- **Max. sewing speed:** 6,000sti/min (longitudinal stroke of top feed dog is 3.2mm (AK48/49/SY49))

**Stitch gauge**

- **3.2, 4.0, 4.8, 6.4 mm**

**Needle gauge (mm)**

- **3.2, 4.0, 4.8, 6.4 mm**

**Bottom differential feed ratio**

- **6.4 mm**

**Needle bar stroke**

- **20 mm**

**Needle bar method and upper/lower bushing**

- **DC needle mechanism**

**Longitudinal stroke of top feed dog**

- **8.5 mm**

**Max. lift of the presser foot**

- **63.7N (6.5kgf)**

**Runstitching Standard**

- **Runstitching Standard**

**Needle thread heat remover**

- **Provided as standard**

**Needle cooler**

- **Provided as standard**

**Micro-lifter**

- **Provided as standard**

**Stitch adjusting method**

- **By push-button**

**To order, please contact your nearest JUKI distributor.**
The introduction of a shield-structured needle bar mechanism and upper and lower needle bar bushings, contributes to increased durability and reliability. To offer improved sewing capabilities and precision throughout the entire sewing process, the machine is equipped with a newly-developed feed mechanism that moves the top and bottom feeds separately. With the combination of the feed's increased differential feed ratio and improved feeding capacity, the machine is able not only to prevent uneven material feed, but also to easily finish difficult processes, such as sewing different types of materials together, ruffling and piping.

The needle thread heat remover and needle cooler are equipped as standard. The needle thread heat remover is effective for preventing burns and damage due to excessive machine heat. The needle cooler is utilized to cool the needle to prevent needle breakage. In addition, the needle thread heat remover and needle cooler can be used for the operation of automatic edge guiding devices as well as for the operation of the 2-thread edging devices. This makes the machine highly versatile and suitable for a wide range of applications.

The MO-6900R Series comes with a newly-developed needle system that horizontally synchronize with the bottom feed dog, to reliably feed the materials without damaging them. This feed system allows for smooth and easy feeding of a wide range of materials, from lightweight fabrics to heavy-duty materials. The machine is designed with a one-touch connector mechanism, which allows for quick and easy connection of various accessories and attachments.

The machine also features a guide, ruler, and various other accessories that can be used to enhance the machine's capabilities. For example, the guide, ruler, and various other accessories can be used to easily guide the materials being sewn, ensuring precise and accurate stitching. Additionally, the machine is designed with a safety system that ensures operator safety and reduces the risk of accidents. This includes features such as overlock safety settings, which can be adjusted to prevent accidents and ensure operator safety.

The machine is designed with a micro adjustment mechanism for precise control over the sewing process, allowing for accurate and precise stitching. This mechanism is especially useful for applications such as overlock and overedging, where precision is critical. Furthermore, the machine is equipped with a micro-lifter feature that offers improved responsiveness to the operator's movements, and a front-end fulcrum position that can be easily adjusted to suit the operator's preferences.

In conclusion, the MO-6900R Series is a highly versatile and efficient machine that is designed to meet the needs of a wide range of applications. Its advanced features and capabilities make it an ideal choice for professionals who require a machine that can handle a wide range of materials and sewing processes with ease and precision.
The MO-6900R Series comes with a newly-developed feed mechanism that moves the top and bottom feeds separately. With the combination of the feeds’ increased differential feed ratio and improved feeding capacity, the machine is able not only to prevent uneven material feed, but also to easily finish difficult processes, such as sewing different types of materials together, ruffling and piping.

The introduction of a shield-structured needle thread heat remover and needle cooler are equipped as standard. To offer improved sewing capabilities, the machine is equipped with a specially designed feed mechanism that moves the top and bottom feeds separately. With the combination of the feed’s increased differential feed ratio and improved feeding capacity, the machine is able not only to prevent uneven material feed, but also to easily finish difficult processes, such as sewing different types of materials together, ruffling and piping.

To further increase reliability, the needle thread heat remover and needle cooler are equipped as standard. To offer improved sewing capabilities, the machine is equipped with a newly-developed feed mechanism that moves the top and bottom feeds separately. With the combination of the feed’s increased differential feed ratio and improved feeding capacity, the machine is able not only to prevent uneven material feed, but also to easily finish difficult processes, such as sewing different types of materials together, ruffling and piping.

The machine has been designed with the intention of providing an extended service life. The bottom and top feed mechanisms are equipped with separate differential feed rate adjusting mechanisms. Selecting adjusting mechanisms according to the material or process suited position according to the material or process. Excellent bottom and variable top feed mechanisms. The button of the top feed dog increases the efficiency of feed for the top material, and the feed takes place according to the material or process suited position according to the material or process. Excellent bottom and variable top feed mechanisms. The button of the top feed dog increases the efficiency of feed for the top material, and the feed takes place according to the material or process suited position according to the material or process.

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MO-6900R Series

The MO-6900R Series comes with a newly-developed feed mechanism that moves the top and bottom feeds separately. With the combination of the feed's increased differential feed ratio and improved feeding capacity, the machine is able not only to prevent uneven material feed, but also to easily finish difficult processes, such as sewing different types of materials together, ruffling and piping.

- Excellent bottom and variable top feed mechanisms.
  - The distance of the top feed dog increases as the distance of the bottom feed dog decreases. This allows the machine to feed materials smoothly without a change in the area of feed micro-adjusting mechanisms. Those mechanisms are also increased for outstanding sewing results.
  - The tension of the top feed dog can be set at the rear side of the machine. This allows the feed tension to be adjusted according to the material's weight.

- The machine has been developed with the intention of providing an extended service life.
  - The buttonhole and side hems are equipped with separate differential feed micro-adjusting mechanisms. Those adjusting mechanisms are also increased for outstanding sewing results.
  - The feed mechanism is designed to be as simple as possible, such as the one for feed adjusting mechanisms. This allows the machine to handle different feed ratios with ease.

- The MO-6900R Series comes with a newly-developed chain-off auto-lifter suction device, which is suitable for both chain-off and sunken-type materials.
  - The auto-lifter is equipped with a pneumatic flat cutter T040 and a motorized chain-off thread suction device T041S. This allows the machine to handle both chain-off and sunken-type materials.
  - The machine has been designed to be easy to use, with the sewing process facilitated by the presser foot pedal and knee-control type differential-feed adjusting device.

- Devices intended for conventional JUKI machines are also interchangeable with no additional machining required. This eliminates both the waste of resources and unwanted extra costs.
  - Upper presser feed dog, lower needle bar, and bushing are included.

- Differential feed mechanisms can be easily changed over with a fingertip control.
  - The machine has been designed to be easy to use, with the sewing process facilitated by the presser foot pedal and knee-control type differential-feed adjusting device.

- The MO-6900R Series is equipped with a new needle thread heat remover and needle cooler as standard.
  - The needle thread heat remover and needle cooler are equipped as standard.
  - To offer improved sewing capabilities, a new foot control pedal is built in the machine. This allows the operator to change the needle feed and stitch width as desired.

- The MO-6900R Series is equipped with a new micro-lifter feature that offers improved responsiveness to material feed.
  - The micro-lifter is equipped with the presser foot pedal. This facilitates material setting on the machine. Furthermore, the knee-control type differential-feed adjusting device is built in the attachment. It controls a differential-feed ratio as desired, thereby enabling the operator to make beautiful gathers.

- The machine is able to make various patterns, including overedging and running stitches.
  - Multi-purpose runstitching and overedging:
    - MO-6914R-DE6-307
      - #27 #11 7,000
      - Specifications: 1:2 1
      - Speed: 7.5 6.5 DC

- The operation mode can be changed over with a fingertip control.
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MO-6900R Series

High-speed, Variable Top-feed, Overlock / Safety Stitch Machine

**MO-6904R**
- 1-needle overlock
- Max. sewing speed: 5,000sti/min
- Overedging width: 2.0mm
- Needle gauge: 2.0, 3.2, 4.8, 4.8+2.0, 3.2+2.0

**MO-6914R**
- 1.5-needle overlock
- Max. sewing speed: 7,000sti/min
- Overedging width: 2.0mm
- Needle gauge: 2.0, 3.2, 4.8, 4.8+2.0, 3.2+2.0

**MO-6916R**
- 2-needle safety stitch
- Max. sewing speed: 6,000sti/min
- Overedging width: 2.0mm
- Needle gauge: 2.0, 3.2, 4.8, 4.8+2.0, 3.2+2.0

To order, please contact your nearest JUKI distributor.
WHEN YOU PLACE ORDERS

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

MO-6900R Series
High-speed, Variable Top-feed, Overlock / Safety Stitch Machine

Stitch type in the U.S.A.

- 504: 1-needle overlock
- 514: 2-needle overlock
- 516: 3-needle overlock

Max. sewing speed

- 6,000 sti/min (longitudinal stroke of top feed dog is 6.85 mm or less)

Stitch length

- 0.8 mm
- 1.5 mm

Needle gauge (mm)

- 2.0
- 3.2
- 4.8
- 4.8+2.0
- 3.2+2.0

Needle bar method and upper/lower bushing

- DC

Needle

- 27 (excluding some subclass model)

Vertical stroke of top feed dog

- 3.5 mm

Needle Overedging

- Width (mm)
  - 1:2 (max. 1:4)
  - 1:0.7 (max. 1:0.6)

Max. lift of the presser foot

- 300 mm

Lubricating oil

- JUKI Machine Oil 18 (equivalent to ISO VG18)

Micro-lifter

- Provided as standard

Micro-liner

- Provided as standard

Top differential feed adjusting method

- By push-button

Bottom differential feed adjusting method

- By lever (with micro-adjustment)

Runstitching

- For general fabrics
- For heavy-weight materials such as denim
- For zipper attaching

Automatic Lubrication

- Provided as standard

Needle cooler

- Provided as standard

A smooth feed mechanism free from damage on the material.

To order, please contact your nearest JUKI distributor.

AC SERVOMOTOR/Machine head

MO-6900R

MO-6914R

MO-6916R

TUV RHEINLAND CERTIFIED QUALITY MANAGEMENT SYSTEM (ISO 9001)

MO_6900R serIes

MO_6914R

MO_6916R

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