

1-needle, Double Chainstitch Machine

MH-481/MH-481-5(4) (with automatic thread trimmer)

1-needle, Double Chainstitch Differential-feed Machine

MH-484/MH-484-5(4) (with automatic thread trimmer)

1-needle, Double Chainstitch, Bottom & Variable Top-feed Machine
with Automatic Thread Trimmer

MH-486-5(4)



MH-481/MH-481-5(4)



MH-484/MH-484-5(4)



MH-486-5/PF-3

MH-481/MH-481-5(4)

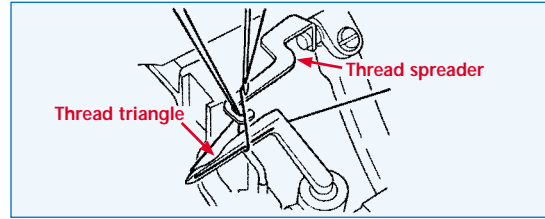
The machine comes with a silicon oil lubricating unit, thread spreading mechanism and thread trimming mechanism which trims the thread without fail, thereby consistently ensuring beautifully-finished seams for light- to medium-weight materials. The appearance of the machine is restyled, and it is now colored in a refreshing urban white.



Needle thread draw-out mechanism



Needle thread clamp mechanism and sliding presser foot



● Thread spreading mechanism

The thread spreader is for reverse feed stitching. It also plays an important role during normal feed stitching, helping create finished seams with higher consistency and preventing stitch skipping.

The machine is provided with mechanisms to enable upgraded sewing.

The machine comes with a thread spreading mechanism and an adjustable needle guard to prevent stitch skipping. The thread clamp mechanism, tension release mechanism and needle thread draw-out mechanism enable the machine to leave thread of a uniform length after thread trimming, and prevent slip-off of the needle thread. All of these mechanisms contribute to upgraded sewing.

Safety stitching or reverse feed stitching with a simple lever operation.

Safety stitching (condensation stitching) the perfect method of preventing loose stitches, or reverse feed stitching (back-tacking) can be alternated through the simple adjustment of the stopper of the reverse feed lever. Either sewing method can be used.

Beautifully finished seams.

Provided with a sliding presser foot and a silicone oil lubricating unit as standard, stitch skipping and puckering are prevented. Furthermore, the silicone oil lubricating unit prevents the needle from overheating, and allows foundation yarn or synthetic thread to be used without breakage during sewing. These features assure beautifully finished seams with consistency for light- to medium-weight materials.

MH-481/MH-484-5(4)

The machine finishes beautiful seams in elastic and light-weight materials. Furthermore, the differential-feed can be adjusted with the simple operation of a lever, thereby enabling the machine to respond to the requirements of many different kinds of sewing.



Using a lever, the differential-feed ratio for stretch stitching or gathering stitching can be easily adjusted.

The machine is best-suited for sewing elastic materials.

The differential-feed is the best-suited feeding device when sewing elastic materials including double-jersey or light-weight materials such as satin or georgette. Beautiful, elastic seams are created, while puckering, thread breakage and thread fraying are all prevented.

Change of sewing method with a simple lever operation.

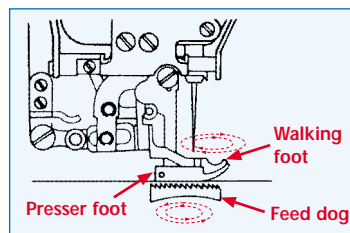
The sewing method can be alternated between stretch stitching and shirr stitching with the simple operation of a lever. This lever is also used to adjust the differential-feed ratio.

The machine is capable of gathering and partial shirring.

A gathering attachment (S060), intermittent gathering attachment (S061) and partial shirring device (PF5) are optionally available to enable the machine to perform consistent gathering and partial shirring. Replaceable gauges such as the gauge for light-weight materials and the urethane feed dog are prepared in accordance with the applications of the machine.

MH-486-5(4)

An easy-to-operate, high-precision presser foot, feed dog and thread draw-out mechanism have been developed for this sewing machine so that any operator can finish seams of the highest quality. The machine flexibly adapts to a wider range of light- to heavy-weight materials, process changes, and sewing specifications, including partial shirring.



● Bottom and variable top-feed mechanism

The top-feed amount can be adjusted independently of the bottom-feed. The maximum lift of the walking foot is 3mm.

| | | |
|---|--|---|
| When the upper cloth is fed faster (or when the upper cloth is required to be gathered) | | Turn the top-feed control dial in direction "+" (clockwise). |
| When the lower cloth is fed faster (or when the upper cloth is required to be gathered) | | Turn the top-feed control dial in direction "-" (counterclockwise). |

● Uneven material feed is prevented by adjusting the top-feed

The machine incorporates many functions and places a great deal of importance on higher product quality.

The machine comes with many different functions to prevent uneven material feed and puckering for higher-quality seams. The machine is adaptable to a wider variety of light- to heavy-weight materials and takes full advantage of top-feed mechanism. This enables unskilled operators to finish seams of consistent quality.

The top-feed dog has been designed so that the operator can smoothly place the material to be sewn on it. Furthermore, the gauge can be easily replaced and stitch adjustment can be performed without difficulty.

The machine comes with a forced lifting mechanism for the top-feed dog. This enables the operator to place the material to be sewn on the top-feed dog more smoothly. The machine incorporates its exclusive chain-off thread presser pedal foot, which improves seam quality and ease of operation. The exclusive gauge comes in five different types, and the gauges can be replaced in a simple procedure. This facilitates the required adjustment when changing the needle count.

The machine is also capable of performing partial shirring.

The machine works effectively for processes which require partial shirring as long as the partial shirring device (PH-3) is used in combination with the partial shirring dial. The partial shirring device comes in two different types, the kneepad drive type and the pedal drive type.

APPLICATION FOR MH-481/MH-484/MH-486 SERIES

| | |
|-------------------------------------|--|
| Men's shirts | Attaching yokes on the back |
| Slacks, pantaloons, ski pants | Attaching waist belts, joining sides, seam insides, or hip seams. |
| Coats, blazers | Sewing the center of the back, joining sides, sewing sleeves, belts, collars, and sewing the facing on to the front. |
| Skirts | Sewing the center and joining sides |
| One-piece suits, blouses, negligees | Making pleats or gathers |
| Uniforms, jumpers | Sew side and sew interlining on the wrong side of the material |
| Interior decorations | Making pleats or gathers |

OPTIONS

| Model | Part No. | Description | Remarks | Application | | | | |
|-------|--------------|---|--|-------------|-------------|--------|-------------|-------------|
| | | | | MH-481 | MH-481-5(4) | MH-484 | MH-484-5(4) | MH-486-5(4) |
| AK4 | | Auto-lifter | | | | | | |
| PF-3 | | Partial shirring device | Upper shirring | | | | | |
| PF-5 | | Partial shirring device | Lower shirring | | | | | |
| S060 | MAS-06000A0 | Attachment for gathering (manual type) | Specialized presser foot, main feed dog, differential-feed dog | | | | | |
| S061 | MAS-061000A0 | Attachment for intermittent gathering (foot pedal type) | | | | | | |



S060



PF-5

REPLACEABLE GAUGE TABLE

●MH-481, MH-481-5(4)

| Usage | Throat plate | Feed dog | Presser foot |
|--|---------------|---------------|---------------|
| Light-weight materials | B1103-481-A00 | B1613-481-A00 | B1524-481-CC0 |
| Medium-weight materials | B1103-481-F00 | B1613-481-F00 | B1524-481-CC0 |
| Heavy-weight materials | B1103-481-H00 | B1613-481-H00 | B1524-481-H00 |
| * In addition, a urethane feed dog and coarse feed dog are also available. | | | |

●MH-484, MH-484-5(4)

| Usage | Throat plate | Main feed dog | Differential-feed dog | Presser foot |
|---|---------------|---------------|-----------------------|---------------|
| Light-weight materials | B1103-484-B00 | | | |
| Medium-weight material (standard) | B1103-484-F00 | B1613-484-F00 | B1653-484-F00 | B1524-481-CC0 |
| Urethan pad | | B1613-484-G00 | B1653-484-G00 | |
| Reverse feed dog | | | B1653-484-C00 | |
| Gathering one piece of material | | | | B1524-481-DA0 |
| * S060 and S061 are optionally available. (Use the presser foot, main feed dog and differential-feed dog exclusive for this attachment) | | | | |

●MH-486-5(4)

| Code | Usage | Throat plate | Feed dog | Walking foot | Presser foot |
|------|---|---------------|---------------|---------------|---------------|
| | Standard type for general runstitch (rake-in type) | B1103-481-F00 | B1613-481-F00 | B3026-487-000 | B1524-486-0A0 |
| B | For medium turning stitch, gathering stitch (rake-in type: for preventing uneven material feed) | | | B3026-487-000 | B1524-486-BA0 |
| D | For sharp turning stitch (pull-in type: for Preventing Puckering) | | | B3026-487-D00 | B1524-486-DA0 |
| M | For seaming side of slacks (right-compensating foot for side pockets) | | | B3026-487-M00 | B1524-486-MAA |
| S | For sharp turning stitch (rake-in type: for preventing puckering) | | | B3026-487-S00 | B1524-486-SA0 |

SPECIFICATIONS

| Model name | MH-481 | MH-481-5(4) | MH-484 | MH-484-5(4) | MH-486-5(4) |
|--------------------------------------|---|-------------|--|-------------|----------------------------|
| Feed system | Bottom-feed | | Differential-feed | | Bottom & variable top-feed |
| Max. sewing speed | 5,500rpm | | | | 4,500rpm |
| Stitch length | 1 ~ 4mm | | Main feed: 1 ~ 4mm Differential-feed: 1 ~ 5.6mm | | 1 ~ 5mm |
| Top-feed amount | | | | | 0 ~ 7mm |
| Differential-feed ratio | Max. gathering stitching 1: 3.0 (standard 1: 1.5) Max. stretch stitching 1: 0.5 | | | | |
| Lift of the presser foot | By hand: 5mm, By knee: 10mm | | | | By hand: 5mm, By knee: 7mm |
| Needle bar stroke | 30mm | | | | 33mm |
| Needle (at the time of the delivery) | TV × 7 (#11) #9 ~ #18 | | | | TV × 7 (#11) #9 ~ #21 |
| Stitch length adjustment | By dial | | | | |
| Safety stitch | Condensation stitch/reverse stitching (by feed lever) | | | | |
| Looper system | Inclined crank | | | | |
| Looper stroke | 21.5mm | | | | |
| Looper stroke of the front and rear | 2.1 ~ 3.3mm | | | | 3.2mm |
| Speed control | | * (1) | | * (1) | * (1) |
| Lubrication | Automatic | | | | |
| Lubricating oil | JUKI New Defrix Oil No.1 (equivalent to ISO VG7) | | | | |
| Power consumption | | * (2) | | * (2) | * (2) |

* (1) From 500rpm to the Max. sewing speed determined by the pulley used (externally adjustable)

* (2) Single-phase, 3-phase (400W)

SPECIFICATION CONFIRMATION TABLE WITH TYPES OF MACHINES

| Model name | MH-481 | MH-481-5(4) | MH-484 | MH-484-5(4) | MH-486-5(4) | Remarks |
|----------------------------------|--------|-------------|--------|-------------|-------------|---|
| Condensation stitch | | | | | | Use the reverse stitching lever Adjust the stopper |
| Reverse stitch | | | | | | |
| Thread clamp device | | | | | | |
| Needle thread releasing device | | | | | | |
| Needle thread draw-out mechanism | | | | | | |
| Thread spreader | | | | | | |
| Movable needle guard | | | | | | |
| Sliding presser | | | | | | |
| Chain-off thread presser | | | Option | Option | | Chain-off thread presser foot for the MH-480 series |
| Silicon oil lubricating unit | | | | | | Provided as standard (packed together with accessories) |



JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct
 ① the technological and technical research, the development and design of the products in which the environmental impact is considered,
 ② the conservation of the energy and resources, and the recycling, in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.

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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 catalog is printed on recycle paper.