

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 and Variable Top-feed Machine  
with Automatic Thread Trimmer

## MH-486-5(4)



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

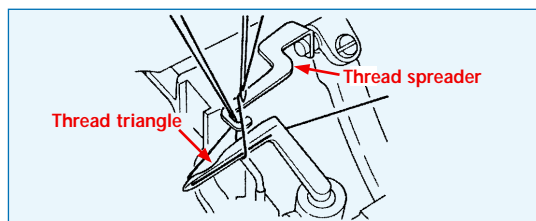
The machine comes with a silicon oil lubricating unit, thread spreading mechanism and thread trimming mechanism which trims the thread without fail, thereby consistently ensuring beautifully-finished seams for light- to medium-weight materials. The appearance of the machine is restyled, and it is now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

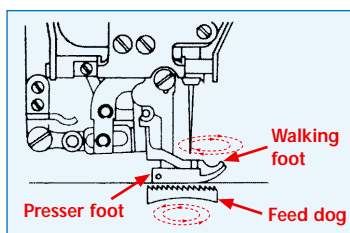
### The machine is capable of gathering and partial shirring.

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

## 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-481□U

Presser foot	Code
Standard	
Sliding foot	C

### ●MH-486-5(4)

### ●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 and 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 (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)				
Motor output	—	750W		—	750W
Power requirement	—	Single-phase, 3-phase		—	Single-phase, 3-phase
Power consumption	—	Rating 425VA		—	Rating 425VA

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

# 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 drow-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)



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 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 sale and maintenance service of the data entry system 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 catalogue prints with environment-friendly soy ink on recycle paper.

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