

JUKI

MO-6900R Series

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



MO-6914C

MO-6900R Series

A smooth feed mechanism free from damage on the material.

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.



MO-6916R

● Excellent bottom and variable top feed mechanisms.

- The locus of the top feed dog increases the surfaces of the top feed dog that horizontally synchronize with the bottom feed dog, to reliably feed the materials without damaging them. The feed mechanism smoothly feeds light-weight materials softly or feeds heavy-weight materials with an increased cloth-biting force.

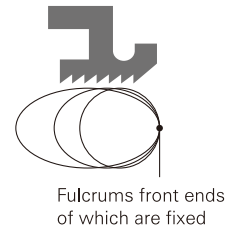


● Runstitching in general fabric
MO-6914R-BE6-307

- The fulcrum of the top feed locus can be set at the best-suited position according to the material or process.

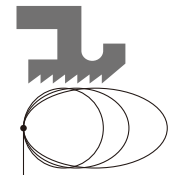
Shift of fulcrum position of the top feed dog

Front-end fulcrum position



Fulcrums front ends of which are fixed

Rear-end fulcrum position



Fulcrums rear ends of which are fixed

- Since the rake-in starting time is consistent at all times, the feed offers increased bite, to demonstrating its capabilities when sewing heavy-weight materials such as jeans.
- The machine is able to make ruffles uniformly.

● The machine has been developed with the intention of providing an extended service life.

- The bottom and top feeds are equipped with separate differential feed micro-adjusting mechanisms. Various adjusting mechanisms to adjust the feed to ideally match the material being sewn are equipped as standard, such as the bottom feed dog inclination-adjusting mechanism and the external differential feed-increasing mechanism.
- Comfortable operation is all but guaranteed, by a wider area around the needle entry, the adoption as standard of a micro-lifter feature that offers improved responsiveness to materials and provides the operator with upgraded operability, and by the reduction of operating noise and vibration, which has been achieved by designing an optimally balanced machine.



Bottom differential-feed micro adjustment mechanism



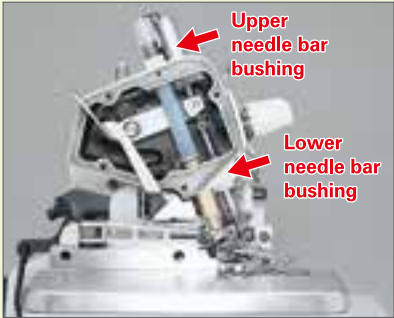
Bottom and top differential-feed micro adjustment mechanism



Micro-lifter

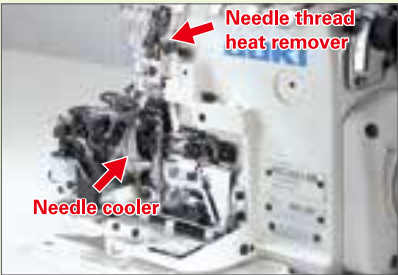
● **Further increased reliability.**

The introduction of a shield-structured needle bar mechanism and upper and lower needle bar bushings, contributes to increased durability and reliability. Additionally, the machine incorporates an improved upper looper unit as well as coming standard with a cartridge type oil filter and cooling fan, thereby ensuring enhanced reliability.



● **The needle thread heat remover and needle cooler are equipped as standard.**

To offer improved sewing capabilities as well as to prevent stitching misshapes, the machine is equipped as standard with the needle thread heat remover and needle cooler.

















● **Devices intended for conventional JUKI machines are also interchangeable.**

Gauges and devices you have used with your existing JUKI machines are also interchangeable with no additional machining required. This eliminates both the waste of resources and unwanted extra costs.




■ **SUBCLASS MACHINE LIST**

														Remarks
Seams	Model No.	Materials	Number of needles	Number of threads	Needle gauge (mm)	Overedging width (mm)	Number of feed dog rows	Stitch length (mm)	Bottom differential-feed ratio	Longitudinal stroke of top-feed dog (mm)	Presser lifting amount (mm)	Needle system	Max. sewing speed (sti/min)	

<1-needle overlock>

● **For runstitching in general fabric**




	MO-6904R-0D4-3F6	L~M	1	3	—	3.2	2	4	1:0.7~1:2	1~7.5	7	DC×27 #11	7,000	For soft-chains
	MO-6904R-0E4-300		1	3	—	4.0	2	4	1:0.7~1:2	1~7.5	7	DC×27 #11	7,000	
	MO-6904R-0F6-500	M~H	1	3	—	4.8	3	4	1:0.7~1:2	1~7.5	7	DC×27 #14	7,000	
	MO-6904R-0H4-50M		1	3	—	6.4	2	4	1:0.7~1:2	1~7.5	4.5	DC×27 #16	7,000	For zipper attaching

<2-needle overlock>

● **For runstitching in general fabric**




	MO-6914R-BD4-307	L~M	2	4	2.0	3.2	2	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	
	MO-6914R-BD6-307		2	4	2.0	3.2	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	
	MO-6914R-BE6-307		2	4	2.0	4.0	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	
	MO-6914R-BD6-40H	M~H	2	4	2.0	3.2	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	Upper looper extra high throw type
	MO-6914R-BE6-40H		2	4	2.0	4.0	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	

<Safety stitching>

● **For runstitching in general fabric**



	MO-6916R-DD6-300	L~M	2	5	3.2	3.2	3	4	1:0.7~1:2	1~7.5	5.5	DC×27 #11	7,000	
	MO-6916R-DE4-300		2	5	3.2	4.0	2	4	1:0.7~1:2	1~7.5	5.5	DC×27 #11	7,000	
	MO-6916R-DE6-300		2	5	3.2	4.0	3	4	1:0.7~1:2	1~7.5	5.5	DC×27 #11	7,000	
	MO-6916R-FF6-300		2	5	4.8	4.8	3	4	1:0.7~1:2	1~7.5	5.5	DC×27 #11	7,000	
	MO-6916R-FF6-50H	M~H	2	5	4.8	4.8	3	4	1:0.7~1:2	1~7	5	DC×27 #16	7,000	Upper looper extra high throw type
	MO-6916R-FH6-60H		2	5	4.8	6.4	3	4.5	1:0.9~1:1.7	1~7	5	DC×27 #21	7,000	For jeans Upper looper extra high throw type

<3-needle safety stitching>

● **Multi-purpose runstitching**



	MO-6943R-1D6-307	L~M	3	6	4.8 +2.0	3.2	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	
	MO-6943R-2D6-40H	M~H	3	6	3.2 +2.0	3.2	3	4	1:0.7~1:2	1~7.5	6.5	DC×27 #11	7,000	Upper looper extra high throw type

DEVICES AND ATTACHMENTS

Model	Part No.	Description
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Chain-off thread trimming device

T039	40044157	One-touch type tape cutter and chain-off thread trimming device (electromagnetic type)	For 110, 115, 200V	
	40044158		For 220, 240, 380, 415, 440V	
T040	40043900	Automatic tape cutter + chain-off thread trimming device (number-off-stitch control and electro-magnetic type)	For semi-sunken type	For 110, 115, 200V
	40043901		For semi-sunken type	For 220, 240, 380, 415, 440V
	40043902	Automatic tape cutter + chain-off thread trimming device (number-off-stitch control and electro-magnetic type)	For fully-sunken type	For 110, 115, 200V
	40043903		For fully-sunken type	For 220, 240, 380, 415, 440V
T041S	400-60703	Pneumatic flat cutter		
T045	MAT-045000A0	Pneumatic side cutter		

Pneumatic chain-off thread suction device

MC-4	—	Specific to chain-off thread, pedal-operated
MC-5	—	Specific to chain-off thread
MC-8	—	Pneumatic chain-off thread + cloth chips
MC-9	—	Function of MC-8 + auto-lifter
MC-24	—	Pneumatic chain-off thread + cloth chips

* The aforementioned devices are not equipped with air regulator.
Please purchase the following components when you need to regulate air pressure.

—	PF-0552010-B0	Air regulator (FR. unit asm.)
—	GMD-01080000×2	Fixing screw for FR. unit asm.
—	F1021-003-000	Tube connector (male)
—	GAS-12063000 *	One-touch connector *Selection parts instead of the tube connector

Auto-lifter

AK32	GAK-320000B0	Pneumatic type (knee-operated)
AK49	GAK-490000A0	Pneumatic type (pedal-operated)
AK52	GAK-520000A0A	Pneumatic type (with chain-off thread suction device)
AK101	GAK-A01000A0	Pneumatic type (for servomotor)

[Reference]

Combination table of “chain-off thread suction device” and “auto-lifter” which correspond to “chain-off thread trimming device”.

Chain-off thread trimming device	Chain-off thread suction device	Auto-lifter
T039	+	MC-8AK101 (JUKI servomotor)
	+	MC-9— (MC-9 is equipped with auto-lifter.)
T040	+	MC-5AK32 (any motor will do)
	+	MC-24AK32 (any motor will do)
T041S or T045	+	MC-4—
	+	MC-8AK101 (JUKI servomotor)
	+	MC-9— (MC-9 is equipped with auto-lifter.)

Model	Part No.	Description	Feature
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Gathering device

S167	MAS-167000A0	Swing-type upper-cloth gathering device (interlocked with pedal)	The attachment opens with the presser foot pedal. This facilitates material setting on the machine. Furthermore, 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.
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Blind hemming device

L121	MAL-121000A0	Blind stitch hemming attachment	A ruler used for blind hemming in knits
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Piping folder

M056	MAM-0560J0A0	Piping folder	This piping folder makes a piping first, then turns up the tape.
M075	MAM-0750J0A0	Piping folder (to be used with knit tape)	This attachment can be used for both “cotton bias tape with gimp” and “knit tape”. The operation mode can be changed over with a fingertip control.
M076	MAM-0760N0A0	Ready-made piping folder	The dimension of ready-made tapes can be adjusted within the range of 8 to 13mm.
M077	MAM-0770J0A0	Piping folder for gathering	The attachment makes gathers on the lower fabric while making decorative piping.
M222	MAM-2220M0A0	Piping folder upper-cloth gathering (finished width 12mm, tape width 26mm)	This folder is to be used together with upper-cloth gathering device S167. Gimp size that can be used is ϕ 2 to ϕ 2.5mm.
	MAM-2220J0A0	Piping folder upper-cloth gathering (finished width 9mm, tape width 20mm)	
M224	MAM-2240N0A0	Ready-made piping folder for upper-cloth gathering	This folder is to be used together with upper-cloth gathering device S167. Tape, of which width is 8 to 18mm, can be used.

Guide, Ruler

H153	MAH-153000A0	Cloth edge guide ruler (for overlock machine)	A swing type edge guide.
H154	MAH-154000A0	Cloth edge guide ruler (for safety stitch machine)	
Q141	MAQ-141000B0	Tape guide	This attachment is used attached on the machine head (face plate). It is used for tapes with the width of 7mm or less.

Miscellaneous

Z173	MAZ-173000A0	Pneumatic chain-off thread suction device (for 1-needle machines)	Simplified device for tucking chain-off thread sewn at the beginning of sewing in overlocked seams. (chain-off thread lower clamping method)
Z195	400-33882	Pneumatic chain-off thread suction device (for 1-needle machines)	Simplified device for tucking chain-off thread sewn at the beginning of sewing in overlocked seams. (chain-off thread lower clamping method)

MO-6900R Series

■ WHEN YOU PLACE ORDERS

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

Head

Stitch type	Code
1-needle overlock	04
2-needle overlock	14
2-needle safety stitch	16
3-needle safety stitch	43

Type	Code
Variable top-feed	R

MO69 R

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code
—	3.2	2-row	0D4
—	4.0	2-row	0E4
—	4.8	3-row	0F6
—	6.4	2-row	0H4
2.0	3.2	2-row	BD4
2.0	3.2	3-row	BD6
2.0	4.0	3-row	BE6
3.2	3.2	3-row	DD6
3.2	4.0	2-row	DE4
3.2	4.0	3-row	DE6
4.8	4.8	3-row	FF6
4.8	6.4	3-row	FH6
4.8+2.0	3.2	3-row	1D6
3.2+2.0	3.2	3-row	2D6

Material		Application	Special machine classification	Code
Light- to medium-weight	For general fabrics	Runstitching	Standard	300
		Runstitching	Upper looper high throw	307
		Soft-chain	Throat plate and feed dog both provided with a lip	3F6
Medium- to heavy-weight	Specific to knits such as sweaters	Runstitching	Upper looper extra high throw	40H
	Medium- to heavy-weight materials such as denim	Runstitching	Standard	500
		Runstitching	Upper looper extra high throw	50H
		Runstitching	For zipper attaching	50M
	For heavy-weight	Runstitching	Upper looper extra high throw	60H

Control Box

SC-921B

Panel

CP18B

* Synchronizer
SY2:40026920
SY2 Stopper Asm.:40025294

● To order, please contact your nearest JUKI distributor.

SPECIFICATIONS

Model name	MO-6904R	MO-6914R	MO-6916R
Stitch type	1-needle overlock	2-needle overlock	Safety stitching
Stitch style in the U.S.A.	504	514	516
Max. sewing speed	7,000sti/min* (longitudinal stroke of top feed dog is 6mm or less) 6,000sti/min* (longitudinal stroke of top feed dog is 6~8.5mm)		
Stitch length	0.8~4mm		1.5~4mm
Needle gauge (mm)	—	2.0	3.2, 4.8, 4.8+2.0, 3.2+2.0
Overedging width (mm)	3.2, 4.0, 4.8, 6.4	3.2, 4.0	3.2, 4.0, 4.8, 6.4
Bottom differential feed ratio	For gathering 1:2 (max. 1:4), For stretching 1:0.7 (max. 1:0.6)		
Needle bar stroke	24.5mm		
Inclination angle of the needle	20°		
Needle mechanism	Needle bar method and upper/lower bushing		
Needle	DC×27 (excluding some subclass model)		
Vertical stroke of top feed dog	3.5~8.5mm (it differs with the machine's specifications.)		
Longitudinal stroke of top feed dog	1~7.5mm (it differs with the machine's specifications.)		
Max. lift of the presser foot	7mm (excluding some subclass model)		
Max. presser foot pressure	63.7N (6.5kgf)		
Stitch adjusting method	By push-button		
Bottom differential feed adjusting method	By lever (with micro-adjustment)		
Top differential feed adjusting method	By lever (with micro-adjustment)		
Weight of the machine head	29kg		
Lubrication	Automatic		
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)		
Needle cooler	Provided as standard		
Needle thread heat remover	Provided as standard		
Micro-lifter	Provided as standard		

* "sti/min" stands for "Stiches per Minute"

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JUKI
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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 soyink on recycle paper.



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The Scope of the Registration : The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.