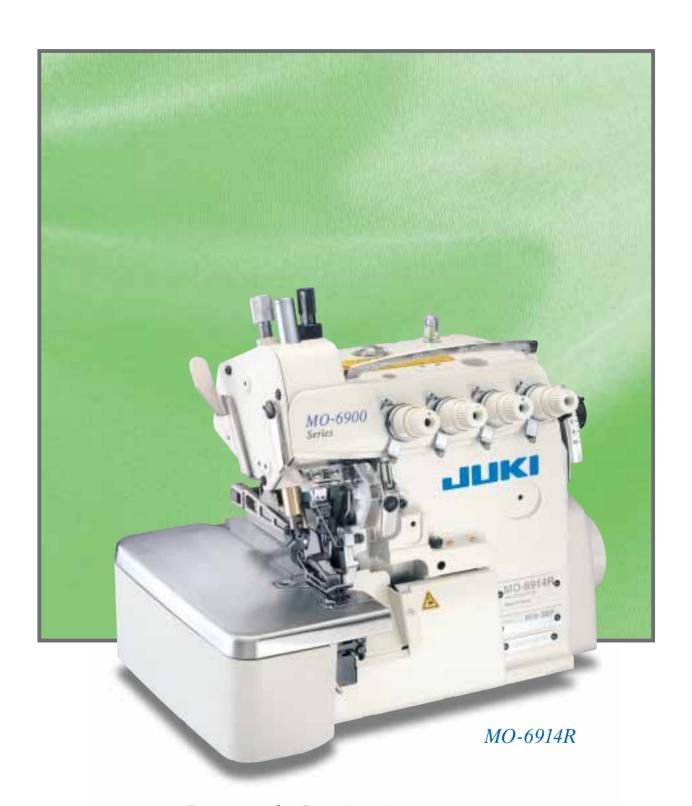


### **MO-6900R Series**

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

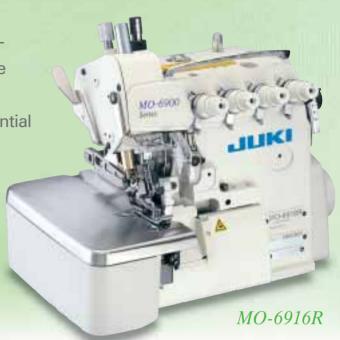


# MO-6900R Series

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.



#### • 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.



 The fulcrum of the top feed locus can be set at the bestsuited 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

 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. Rear-end fulcrum position



Fulcrums rear ends of which are fixed

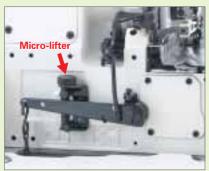
•The machine is able to make ruffles uniformly.

### ● 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 inclinationadjusting 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 microlifter 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.







#### 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.



MTTTAR

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#### SUBCLASS MACHINE LIST

	7	L > H	Ţ	<u></u>	<b>→ →</b>	<u> </u>	Number	J.⊢	00	Longitudinal	Presser		Max.	Remarks
Seams	Model No.	Materials	Number of needles	of		Overedging width (mm)		Stitch length (mm)	Bottom differential- feed ratio	stroke	lifting amount (mm)	Needle system	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	L~IVI	1	3	_	4.0	2	4	1:0.7~1:2	1~7.5	7	DC×27 #11	7,000	
- Silling	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	IVI~П	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

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

#### <Safety stitching>

<b>O</b> FOI	r runstitching in ge	neral ta	abric							1364	143	. Al 🔽 e		O. SER A
	MO-6916R-DD6-300		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	L∼M	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	L. SIVI	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	
- Transfer	MO-6916R-FF6-50H		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	M∼H	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

#### <3-needle safety stitching>

Multi-purpose runstitching

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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

#### ■ DEVISES AND ATTACHMENTS

Model	Part No.		Descri	ption			
Cha	in-off thread tri	nming device					
T039	40044157	One-touch type to and chain-off thre		For 110, 115, 200V			
1039	40044158	trimming device (electromagnetic t	type)	For 220, 240, 380, 415, 440V			
	40043900	Automatic tape cutter	For semi-	For 110, 115, 200V			
T0.40	40043901	+ chain-off thread trimming device	sunken type	For 220, 240, 380, 415, 440V			
T040	40043902	(number-off-stitch control and electro-	For fully-	For 110, 115, 200V			
	40043903	magnetic type)	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

 $\ensuremath{\mbox{{\bf \$}}}$  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 (F.R. unit asm.)
_	GMD-01080000×2	Fixing screw for F.R. 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]

T045

Combination table of "chain-off thread suction device" and "auto-lifer" which correspond to "chain-off thread trimming device".

Chain-off thread trimming device		Chain-off thread suction device	Auto-lifter
T039		MC-8	AK101 (JUKI servomotor)
1039	_	MC-9	— (MC-9 is equipped with auto-lifter.)
T040	L	MC-5	AK32 (any motor will do)
1040	_	MC-24	AK32 (any motor will do)
T041S		MC-4	_
or	1	MC-8	AK101 (ILIKI servemeter)

— (MC-9 is equipped with auto-lifter.)

iviodei	Part No.	Description	Feature							
Gat	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.									
Blin	● Blind hemming device									
L121	MAL-121000A0	Blind stitch hemming attachment	A ruler used for blind hemming in knits							
Dini	Pining folder									

#### Piping folder

M056	MAM-0560J0A0	Piping folder	This piping folder makes a piping first, then turns up the tape.
IVIUSO	IVIAIVI-0500JUAU	riping loider	11.0
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.
IVIZZZ	MAM-2220J0A0	Piping folder upper-cloth gathering (finished width 9mm, tape width 20mm)	Gimp size that can be used is $\phi$ 2 to $\phi$ 2.5mm.
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)	A swing type eage guide.
Q141	MAQ-141000B0		This attachment is used attached on the machine head (face plate). It is used for tapes with the width of 7mm or less.

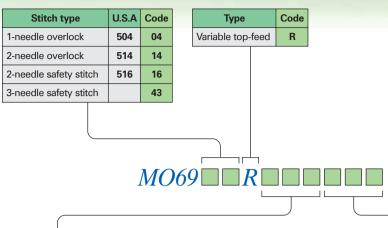
#### Miscellaneous

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



#### ■ WHEN YOU PLACE ORDERS

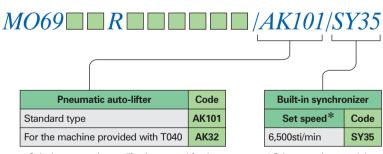
Please note when placing orders, that the model name should be written as follows:



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

#### ■ AC SERVOMOTOR/Machine head



<sup>\*</sup>Only the pneumatic auto-lifter is prepared for the MO-6900R series.

• To order, please contact your nearest JUKI distributor.

<sup>\*</sup>Select a sewing speed that is lower than the machine head's maximum sewing speed by 500sti/min.

#### 

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 $\sim$ 8.5mm (it differs with the machine's specifications.)			
Longitudinal stroke of top feed dog	1 $\sim$ 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			

 $\ensuremath{\,\boxtimes\,}$  To order, please contact your nearest JUKI distributor.



- ☑ 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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