

## MO-6900G Series

Bottom-feed, Overlock / Safety Stitch Machine  
for Extra Heavy-weight Materials

## MO-6900J Series

Variable Top-feed, Overlock / Safety Stitch Machine  
for Extra Heavy-weight Materials



*MO-6916J*

*MO-6900G, MO-6900J Series*

# MO-6900G, MO-6900J Series

*An advanced full-featured machine that is ideally suited to the sewing of extra heavy-weight materials.*

The machine incorporates a mechanism and parts that are optimum for the sewing of extra heavy-weight materials, such as an extra high-lift type upper looper, tractor foot and coarse type feed dog.

It demonstrates an excellent performance ability in the sewing of various kinds of heavy-weight materials such as jeans, raised fabric materials, mats and carpets.



MO-6916G

- The machine securely clamps the material at the beginning of sewing as well as smoothly sewing multi-layered parts of the material to facilitate the sewing of extra heavy-weight materials.



MO-6916G-FH6-700

- The MO-6900J Series comes with a newly-developed feed mechanism that moves the top and bottom feeds separately. With its improved feeding capacity and stronger cloth-biting force, the feed mechanism prevents uneven material feed when sewing extra heavy-weight materials.



MO-6916J-FH6-700

- The machine incorporates mechanisms that are both durable and reliable, such as the needle bar mechanism, utilizing the upper and lower bushings, a cartridge type oil filter and cooling fan.
- The machine is equipped as standard with a micro-lifter that helps reduce operator fatigue. The micro-lifter is designed to achieve optimum balance, not only reducing noise and vibration but also ensuring comfortable operation.
- Needle thread heat remover and needle cooler prevent stitching troubles during times of high-speed sewing, thereby contributing to upgraded seam quality.
- The machine comes standard with various adjusting mechanisms, such as a micro-adjusting mechanism, all of which can be easily adjusted to enable the machine to perform sewing under the best-suited conditions for any kind of material.

## SUBCLASS MACHINE LIST

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)	Remarks
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### MO-6900G Series

MO-6903G-0N6-3D1	L~M	1	2	—	18.0	3	7	—	—	5	DO×5 #16	5,500	For splicing fabrics
MO-6904G-0F6-700	EH	1	3	—	4.8	3	5	1:0.7~1:1.75	—	8	DO×5 #21	6,000	For runstitching extra heavy-weight materials such as denim
MO-6905G-0M6-700		1	3	—	10.0	3	7	—	—	7	DC×1 #24	4,000	For overedging carpets, mats for entrance halls, etc.
MO-6905G-0M6-7E0		1	3	—	10.0	3	7	—	—	7	DC×1 #24	4,000	For overedging car mats
MO-6914G-CH6-700		2	4	2.6	6.4	3	4	1:0.8~1:2	—	8	DO×5 #18	6,000	For overedging jersey, etc.
MO-6916G-FF6-700		2	5	4.8	4.8	3	5	1:0.7~1:1.75	—	8	DO×5 #21	6,000	For safety stitching extra heavy-weight materials such as denim
MO-6916G-FH6-700		2	5	4.8	6.4	3	5	1:0.7~1:1.75	—	8	DO×5 #21	6,000	For safety stitching extra heavy-weight materials such as denim

### MO-6900J Series

MO-6904J-0F6-700	EH	1	3	—	4.8	3	5	1:0.7~1:1.75	2.7~7	8	DO×5 #21	6,000	For runstitching extra heavy-weight materials such as denim
MO-6914J-CH6-700		2	4	2.6	6.4	3	4	1:0.8~1:2	2.7~7	8	DO×5 #18	6,000	For overedging jersey, etc.
MO-6916J-FF6-700		2	5	4.8	4.8	3	5	1:0.7~1:1.75	2.7~7	8	DO×5 #21	6,000	For safety stitching extra heavy-weight materials such as denim
MO-6916J-FH6-700		2	5	4.8	6.4	3	5	1:0.7~1:1.75	2.7~7	8	DO×5 #21	6,000	For safety stitching extra heavy-weight materials such as denim
MO-6916J-FF6-70Q		2	5	4.8	4.8	3	5	1:0.7~1:1.75	2.7~7	8	DC×27 #16	6,000	For safety stitching bathrobe, etc.



# SPECIFICATIONS

## MO-6900G Series

Model name	MO-6904G	MO-6914G	MO-6916G
Stitch type	1-needle overlock	2-needle overlock	Safety stitching
Stitch style in the U.S.A.	504	514	516
Max. sewing speed	6,000sti/min *		
Stitch length	2.5~5mm	2.5~4mm	2.5~5mm
Needle gauge (mm)	—	2.6	4.8
Overedging width (mm)	4.8, 10.0, 18.0	6.4	4.8, 6.4
Differential feed ratio	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)	For gathering 1:2 (max. 1:3.8) For stretching 1:0.8 (max. 1:0.6)	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)
Needle bar stroke	28.8mm		
Inclination angle of the needle	20°		
Needle bar bushing	Upper/lower bushing method		
Needle	DO×5 (excluding some subclass model)		
Max. lift of the presser foot	8mm (excluding some subclass model)		
Max. presser foot pressure	63.7N (6.5kg)		
Stitch adjusting method	By push-button		
Differential-feed adjusting method	By lever (with micro-adjustment)		
Weight of the machine head	28kg		
Lubrication	Automatic		
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)		
Needle cooler	Provided as standard (excluding some subclass model)		
Needle thread heat remover	Provided as standard		
Micro-lifter	Provided as standard		

## MO-6900J Series

Model name	MO-6904J	MO-6914J	MO-6916J
Stitch type	1-needle overlock	2-needle overlock	Safety stitching
Stitch style in the U.S.A.	504	514	516
Max. sewing speed	6,000sti/min *		
Stitch length	2.5~5mm	2.5~4mm	2.5~5mm
Needle gauge (mm)	—	2.6	4.8
Overedging width (mm)	4.8	6.4	4.8, 6.4
Bottom differential feed ratio	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)	For gathering 1:2 (max. 1:3.8) For stretching 1:0.8 (max. 1:0.6)	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)
Needle bar stroke	28.8mm		
Inclination angle of the needle	20°		
Needle bar bushing	Upper/lower bushing method		
Needle	DO×5 (excluding some subclass model)		
Vertical stroke of top feed dog	8.5mm		
Longitudinal stroke of top feed dog	2.7~7mm (it differs with the machine's specifications.)		
Max. lift of the presser foot	8mm (excluding some subclass model)		
Max. presser foot pressure	63.7N (6.5kg)		
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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\* 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.  
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