

**JUKI**



## MO-6800S Series

High-speed, Overlock / Safety Stitch Machine

The advanced overlock / safety stitch machine is easier to use and promises superior cost effectiveness.



# MO-6800S SERIES

High-speed, Overlock / Safety Stitch Machine

## SPECIFICATIONS

Model name	MO-6804S	MO-6814S	MO-6816S	MO-6843S
Stitch type	1-needle overlock	2-needle overlock	Safety stitching	3-needle safety stitching
Stitch style in the U.S.A.	504	514	516	—
Max. sewing speed			7,000sti/min*	
Stitch length			0.6 ~ 3.8 (4.5) mm	
Needle gauge (mm)	—	2.0	3.0, 5.0	3.0+2.0, 5.0+2.0
Overedging width (mm)	1.5, 4.0	2.0, 3.0, 4.0	4.0, 5.0, 6.0	3.0
Differential feed ratio		For gathering 1:2 (Max. 1:4), For stretching 1:0.7 (Max. 1:0.6)		
Needle bar stroke			24.5mm(60H:27.0mm)	
Inclination angle of the needle			20°	
Needle bar bushing			Lower bushing method	
Needle			DCx27 (excluding some subclass model)	
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	
Differential-feed adjusting method			By lever (with micro-adjustment)	
Weight of the machine head			27kg	
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			Option	

\*sti/min" stands for "Stitches per Minute."

## WHEN YOU PLACE ORDERS

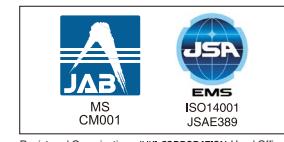
Please note when placing orders, that the model name should be written as follows:

Stitch type	U.S.A	Code	Type	Code	Device and attachment	Code
1-needle overlock	504	04	Standard	S	Tape attaching presser foot (for sewing sharp curves) / Tape guide	G44/Q143
2-needle overlock	514	14			Clean finish top and bottom	N075
2-needle safety stitch	516	16				
3-needle safety stitch		43				
2-needle double chain stitch		45				

MO68□S□□□/□□□□□□

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code	Material	Application	Special machine	Code	
—	1.5	2-row	0A4	Extra light- to light-weight	Light-weight materials	Rolled hemming	Standard	150
—	4.0	2-row	0E4	Light- to medium-weight	Specific to knits	Tape attaching	Standard	24H
2.0	2.0	3-row	BB6		Standard	Standard	Standard	30H
2.0	3.0	3-row	BD6		Standard	Anti-marerial-slip	Standard	30P
2.0	4.0	3-row	BE6	For general fabrics	Tape attaching	Standard	34H	
3.0	4.0	2-row	DE4		Rolling-in tape	Standard	Standard	360
3.0	4.0	3-row	DE6		Standard	Standard	Standard	40H
5.0	5.0	3-row	FF6	Medium- to heavy-weight	Specific to knits such as sweaters	Tape attaching	Standard	44H
5.0	6.0	3-row	FH6		Medium- to heavy-weight materials such as denim	Standard	Standard	50H
5.0+2.0	3.0	3-row	1D6		heavy-weight	Standard	Standard	60H
3.0+2.0	3.0	3-row	2D6					

JUKI ECO PRODUCTS	The MO-6800S is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.
	<ul style="list-style-type: none"> <li>The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.</li> </ul> <p>For details of JUKI ECO PRODUCTS, refer to: <a href="https://www.juki.co.jp/en/company/eco">https://www.juki.co.jp/en/company/eco</a></p> <p>*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (Lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.</p>



Registered Organization: JUKI CORPORATION Head Office  
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.

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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.  
\* Paper from responsible sources FSC™ C001712

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# MO-6800S SERIES

This advanced overlock / safety stitch machine is easier to use and promises superior cost effectiveness.

The MO-6800S Series responds to various kinds of sewing materials and processes, producing delicate and beautiful soft-to-the-touch seams while further reducing operating noise as well as increasing durability. This advanced overlock / safety stitch machine is easier to use and promises superior cost-effectiveness.

The machine achieves beautifully finished seams of improved quality even when run at a high speed.

The machine is widely applicable to the sewing of light- to heavy-weight materials. Since the machine is provided with a needle thread take-up mechanism and a looper thread take-up lever, it ensures high-quality, well-tensed and soft seams with a beautiful texture which flexibly correspond to the elasticity of the materials even when run at speeds as high as 7,000 sti/min. In addition, the machine has a wider and brighter needle entry and provides improved responsiveness to the materials, thereby helping the operator use the machine more easily. The optimally-balanced design of the machine reduces both operating noise and vibration, contributing to more comfortable sewing work.

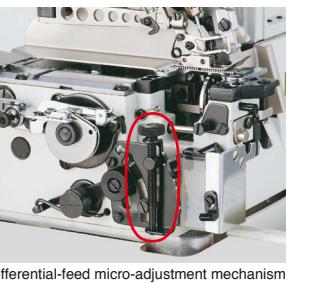


For runstitch / MO-6816S-FF6-30H



The machine is provided with functions which contribute to easier operation.

The differential-feed micro-adjustment mechanism, external increasing of the differential feed ratio and the main feed dog height can all be adjustable on the front face of the sewing machine with a screwdriver. The machine is provided as standard with functions which enable easy and best-suited adjustments according to the material to be used.



Differential-feed micro-adjustment mechanism

## ■ DEVICES AND ATTACHMENTS

Model	Part No.	Description		
<b>Chain-off thread trimming device</b>				
T053	70000081	Pneumatic flat cutter		
T054	70000082	Pneumatic side cutter (for overlock machine)		

### Pneumatic chain-off thread suction device

Model	Part No.	Pneumatic chain-off thread + cloth chips clutch motor	Air type auto-lifter	Clutch motor	Servo motor
MC906	70000085	●		●	
MC919	40182486	●			●
MC910	70000106	●	●	●	
MC921	40182487	●	●		●

Model	Part No.	Description		
<b>Gathering device</b>				
S206	70000089	Swing-type gathering device (interlocked with pedal / for overlock machine)(with BE6 gauge)		
S207	70000090	Swing-type gathering device (interlocked with pedal / for safety stitch machine)(with DF6 gauge)		
S208	70000091	Swing-type gathering device (interlocked with pedal / for safety stitch machine)(with FF6 gauge)		

### Guide, tape guide

H253	40159861	Cloth edge guide ruler (for overlock machine)	
H254	40159862	Cloth edge guide ruler (for safety stitch machine)	A swing type edge guide.
Q143	40159863	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.

## ■ SUBCLASS MACHINE LIST

Seams	Model No.	Materials	Number of needles	Number of threads	Needle gauge (mm)	Overeding width	Number of feed dog rows	Stitch length (mm)	Bottom differential feed	Presser lifting amount	Needle system	Max sewing speed (sti/min)	Remarks
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### ● [ 1-needle overlock ]

For runstitching in general fabric

Seams	MO-6804S-0E4-30H	L~M	1	3	—	4.0	2	3.8	1:0.7~1:2	6.0	DCx27 #11	7,000
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### For rolled hemming (folded downward)

Seams	MO-6804S-0A4-150	EL~L	1	3	—	1.5	2	3.8	1:0.7~1:2	6.0	DCx1 #8	7,000
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### ● [ 2-needle overlock ]

For runstitching in general fabric

Seams	MO-6814S-BD6-30H	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000
Seams	MO-6814S-BE6-40H	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	6,500
Seams	MO-6814S-BB6-30P	L~M	2	4	2.0	2.0	3	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000
Seams	MO-6814S-BE6-30P	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000



Anti-material-slip

### For tape attaching G44: Tape attaching presser foot Q143: Tape guide

Seams	MO-6814S-BD6-24H/G44/Q143	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000
Seams	MO-6814S-BE6-24H/G44/Q143	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000
Seams	MO-6814S-BD6-34H/G44/Q143	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000
Seams	MO-6814S-BE6-34H/G44/Q143	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000
Seams	MO-6814S-BE6-44H/G44/Q143	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	7.0	DCx27 #14	6,500



### ● [ Safety stitching ]

For runstitching in general fabric

Seams	MO-6816S-DE6-30H	L~M	2	5	3.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000
Seams	MO-6816S-FF6-30H	L~M	2	5	5.0	5.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000
Seams	MO-6816S-FF6-50H	M~H	2	5	5.0	5.0	3	3.8	1:0.7~1:2	7.0	DCx27 #16	6,500
Seams	MO-6816S-FH6-50H	M~H	2	5	5.0	6.0	3	3.8	1:0.7~1:2	7.0	DCx27 #16	6,500
Seams	MO-6816S-FF6-60H	H	2	5	5.0	5.0	3	4.5	1:0.9~1:1.7	7.0	DCx27 #21	6,000
Seams	MO-6816S-FH6-60H	H	2	5	5.0	6.0	3	4.5	1:0.9~1:1.7	7.0	DCx27 #21	6,000
Seams	MO-6816S-DE4-30P	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000

Anti-material-slip

Seams	MO-6845S-FF6-360/N075	M~H	2	4	5.0	5.0	3	3.8	1:0.7~1:2	5.0	DCx27 #14	7,000

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