

JUKI



MO-6800D Series

Semi-dry-head, High-speed, Overlock / Safety Stitch Machine

JUKI's dry-head technology protects the sewing products from oil stains.



MO-6814D

MO-6800D

Semi-dry-head, High-speed, Overlock / Safety Stitch Machine

SPECIFICATIONS

Model name	MO-6804D	MO-6814D	MO-6816D	MO-6843D
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)	—	2.0mm	3.0, 5.0mm	5.0+2.0mm
Overedging width (mm)	4.0mm	2.0, 3.0, 4.0mm	4.0, 5.0mm	3.0mm
Bottom differential feed ratio	Gathering 1:2 (Max. 1:4), Stretching 1:0.7 (Max. 1:0.6)			
Needle bar stroke	24.5mm			
Inclination angle of the needle	20°			
Needle mechanism	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 (The needle bar mechanism and upper looper mechanism do not require lubrication.)			
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 is the abbreviation 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	Semi-dry-head	D	Tape attaching presser foot (for sewing sharp curves) / Tape guide	G44/Q143
2-needle overlock	514	14			Latch for changing overedging width	E35
2-needle safety stitch	516	16				
3-needle safety stitch		43				

MO68 /

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code
—	4.0	2-row	0E4
2.0	2.0	3-row	BB6
2.0	3.0	3-row	BD6
2.0	4.0	3-row	BE6
3.0	4.0	2-row	DE4
5.0	5.0	3-row	FF6
5.0+2.0	3.0	3-row	1D6

	Material	Application	Special machine	Code
Light- to medium-weight	Specific to knits	Tape attaching	Standard	24H
	For general fabrics	Runstitching	Standard	30H
		Tape attaching	Standard	34H
		Runstitching	Anti-material-slip	30P
Medium- to heavy-weight	Specific to knits such as sweaters	Runstitching	Standard	40H
		Tape attaching	Standard	44H
	Medium- to heavy-weight materials such as denim	Runstitching	Standard	50H

JUKI ECO PRODUCTS

The MO-6800D is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



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.

For details of JUKI ECO PRODUCTS, refer to: <https://www.juki.co.jp/en/company/eco>

*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.



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.

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.
- * Paper from responsible sources FSC™ C001712

MO-6800D Series

This model of sewing machine has been developed while inheriting JUKI's advanced "dry" technology. JUKI is happy to launch the product which responds to customers' concern about oil stains on the fabric.

JUKI's dry technology has been adopted for the MO-6800S which produces seams of delicate quality and feel as well as achieves excellent cost-effectiveness. This is a semi-dry head overlock machine with the dry mechanism which eliminates oil-splashing problem. As a result, oil stains on the sewn products are eliminated.

Oil stains on the sewing product are eliminated.

- Oil splashes are substantially reduced to eliminate oil stains on sewing products, thereby upgrading the finished quality.
- The frequency of stain removal or re-sewing is reduced.
- The machine achieves a practical maximum sewing speed of 7,000sti/min.

Cutting-edge dry technology for achieving a lubrication-free mechanism.

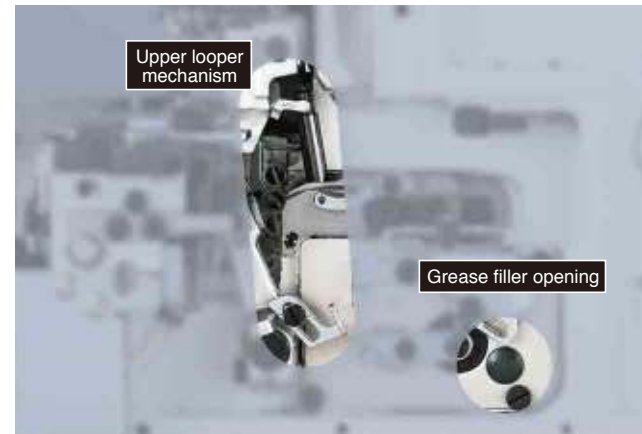
- The needle bar mechanism and upper looper mechanism have been re-designed to require no lubrication.
- The most-advanced dry technologies, such as the special surface treatment applied to the major drive unit and the grease feeding method, contribute to higher durability. The machine does not splash oil after a long-period of use. The grease filler openings are newly provided for the sewing machine on two locations, i.e., one on the upper looper component and the other on the sewing machine frame, thereby improving maintainability.



MO-6814D



Needle bar mechanism



Upper looper mechanism

Grease filler opening

DEVICES AND ATTACHMENTS

Model	Part No.	Description
Chain-off thread trimming device		
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	●	●		●

[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
T053 or T054	MC906	Clutch motor
	MC919	servo motor
	MC910	Air type auto-lifter clutch motor
	MC921	Air type auto-lifter servo motor

Model	Part No.	Description	Feature
Gathering device			
S206	70000089	Swing-type gathering device (interlocked with pedal / for overlock machine)(with BE6 gauge)	The attachment opens with the presser foot pedal. This facilitates material setting on the machine.
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			
Model	Part No.	Description	Feature
H253	40159861	Cloth edge guide ruler (for overlock machine)	A swing type edge guide.
H254	40159862	Cloth edge guide ruler (for safety stitch machine)	
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)	Overedging width	Number of feed dog rows	Stitch length (mm)	Bottom differential feed ratio	Presser lifting amount (mm)	Needle system	Max sewing speed (sti/min)	Remarks
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● [1-needle overlock]

For runstitching in general fabric



	MO-6804D-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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● [2-needle overlock]

For runstitching in general fabric



	MO-6814D-BD6-30H	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	Anti-material-slip
	MO-6814D-BE6-40H	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	7.0	DCx27 #11	6,500	
	MO-6814D-BB6-30P	L~M	2	4	2.0	2.0	3	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000	
	MO-6814D-BE6-30P		2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000	

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



	MO-6814D-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	
	MO-6814D-BE6-24H/ G44/Q143		2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000	
	MO-6814D-BE6-34H/ G44/Q143		2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
	MO-6814D-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



	MO-6816D-DE4-30H	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	Anti-material-slip
	MO-6816D-DE4-30H/ E35		2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
	MO-6816D-FF6-50H	M~H	2	5	5.0	5.0	3	3.8	1:0.7~1:2	7.0	DCx27 #16	6,500	
	MO-6816D-DE4-30P	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000	

● [3-needle safety stitching]



	MO-6843D-1D6-40H	M~H	3	6	5.0+2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
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*"sti/min" stands for "Stitches per Minute." *Contact your JUKI distributor for gauge sizes and other information when you place your order.

Sewn product pictogram

