

MO-6800S/DD10, DD22, DD23

Direct-drive, High-speed, Overlock / Safety Stitch Machine

MO-6800D/DD10, DD22, DD23

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

JUKI



Energy-saving servomotor is installed in the direct-drive style.

Features

- The direct drive system has been adopted.
- Both the control box and the operation panel are integrated with the machine head.



MO-6816S/DD10

MO-6800S/DD Series



MO-6816D/DD22

MO-6800D/DD Series

Smart Devices

The cover sensor unit and cover microswitch unit

The cover sensor unit and cover microswitch unit that detect **1**, **2** and **3** (shown right) are closed tightly during sewing, thereby preventing the sewing machine from starting up unexpectedly.



1. Eye guard with an open/close sensor



2. Cloth plate cover with an open/close microswitch



3. Presser foot arm with an open/close sensor

SPECIFICATIONS

Model name	MO-6800S/DD10, 22, 23				MO-6800D/DD10, 22, 23			
	MO-6804S	MO-6814S	MO-6816S	MO-6843S	MO-6804D	MO-6814D	MO-6816D	MO-6843D
Stitch type	1-needle overlock	2-needle overlock	Safety stitching	3-needle safety stitching	1-needle overlock	2-needle overlock	Safety stitching	3-needle safety stitching
Stitch style in the U.S.A.	504	514	516	—	504	514	516	—
Dry type	—	—	—	—	Semi-dry	Semi-dry	Semi-dry	Semi-dry
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	—	2.0	3.0	5.0+2.0
Overedging width (mm)	1.5, 4.0	3.0, 4.0	4.0, 5.0, 6.0	3.0	4.0	2.0, 3.0, 4.0	4.0	3.0
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	Power supply	Code
1-needle overlock	504	04	Standard	S	Latch for changing overedging width	E35	Single phase 200~240V	K
2-needle overlock	514	14	Semi-dry	D	Tape attaching presser foot (for sewing sharp curves) / Tape guide	G44Q143	Single phase 200~240V (CE)	N
2-needle safety stitch	516	16						
3-needle safety stitch	—	43						

MO68□□□□□□□□□□/DD□□□□

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code	Material	Application	Special machine	Code	Motor	Code
—	1.5	2-row	0A4	Extra light- to light-weight	Light-weight materials	Rolled hemming	Standard	Direct drive motor	DD10
—	4.0	2-row	0E4	Light- to medium-weight	Specific to knits	Tape attaching	Standard	Direct drive motor (Side cutter with sensor / Automatic foot lifter / Chain-off thread suction)	DD22
2.0	2.0	3-row	BB6		For general fabrics	Standard	Standard	Direct drive motor (Chain-off thread trimming with sensor / Automatic foot lifter / Chain-off thread suction)	DD23
2.0	3.0	3-row	BD6			Standard	Anti-material-slip		
2.0	4.0	3-row	BE6	Medium- to heavy-weight	Specific to knits such as sweaters	Tape attaching	Standard		
3.0	4.0	2-row	DE4		Medium- to heavy-weight materials such as denim	Standard	Standard		
3.0	4.0	3-row	DE6			Tape attaching	Standard		
5.0	5.0	3-row	FF6	heavy-weight	heavy-weight	Standard	Standard		
5.0	6.0	3-row	FH6						
5.0+2.0	3.0	3-row	1D6						
3.0+2.0	3.0	3-row	2D6						

* Code "60H" is available only Type "S"

JUKI CORPORATION 2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN

SEWING MACHINERY & SYSTEMS BUSINESS UNIT PHONE: (81) 42-357-2370 FAX: (81) 42-357-2274 <https://www.juki.co.jp/en>

* 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



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.

FEBRUARY, 2021 Printed in Japan(TN)



MO-6800S(D)/DD SERIES

The sewing machine is a direct drive type in which a control box and an operation panel are integrated with the machine head. The machine achieves a practical maximum sewing speed of 7,000sti/min. The MO-6800D/DD series are eliminated oil stains on the sewing product with “dry” technology.

Automatic thread trimmer with a material sensor

The MO-6800S(D) / DD Series of sewing machine is provided as standard with the side cutter with 2-point material sensor (DD22) and the Chain-off the thread trimming device with a 3-point material sensor (DD23). Under the full-automatic mode, the material sensor detects the presence / absence of the material to prevent the operator from erroneously operate the side cutter etc. In addition to the full-automatic mode, the manual mode and the semi-automatic mode can be selected.



3-point material sensor

Model	Direct-drive motor Integrated head / panel	Sensor control	side cutter	Chain-off the thread trimming device	Auto-lifter	Chain-off thread suction device	Remarks
			Pneumatic	Pneumatic	Pneumatic	Pneumatic	
DD10	●	—	*	*	*	*	*: Can be retrofitted With device
DD22	●	● 2-point sensor	●	—	●	●	
DD23	●	● 3-point sensor	—	●	●	●	

Operator fatigue reduction (LED light) Standard equipment with all series

For the LED light, the improved toning function with two additional colors (white / light bulb color) is provided. Illuminance of the LED light is adjustable in five levels. This LED light helps reduce the operator's eye fatigue who is engaged in sewing work for a long time.



Mixed color



White



Light bulb color

Operation panel and control box are integrated with the machine head

The energy-saving and highly efficient servomotor is installed in the direct-drive style. The sewing machine quick lystarts up and stops with increased accuracy, thereby demonstrating improved responsiveness.

USB port

The USB port is standard on the control panel and You can easily upgrade the software. The MO-6800S (D) / DD22, 23 has another one USB port for charging a smartphone, etc.

Panel for DD22, DD23



USB Port 2

MO6816D/DD22

Panel for DD10



MO6816S/DD10

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 differentialfeed ratio	Presser lifting amount (mm)	Needle system	Max sewing speed (sti/min*)	Remarks
-------	-----------	-----------	-------------------	-------------------	-------------------	------------------	-------------------------	--------------------	-------------------------------	-----------------------------	---------------	-----------------------------	---------

1-needle overlock

For runstitching in general fabric



	S	MO6804S0E430H DD10*, DD22*	L~M	1	3	—	4.0	2	3.8	1:0.7~1:2	6.0	DCx27 #11	7,000	
	D	MO6804D0E430H DD10*	L~M	1	3	—	4.0	2	3.8	1:0.7~1:2	6.0	DCx27 #11	7,000	

For rolled hemming (folded downward)

	S	MO6804S0A4150 DD10*, DD22*	EL~L	1	3	—	1.5	2	3.8	1:0.7~1:2	6.0	DCx1 #8	7,000	
--	---	-------------------------------	------	---	---	---	-----	---	-----	-----------	-----	------------	-------	--

2-needle overlock

For runstitching in general fabric



	S	MO6814SBD630H DD22*	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6814SBE640H DD10*, DD22*	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	6,500	
		MO6814SBE630P DD22*	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
	D	MO6814DBD630H DD22*	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6814DBE640H DD22*	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	7.0	DCx27 #11	6,500	
		MO6814DBB630P DD22*	L~M	2	4	2.0	2.0	3	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000	Anti-material-slip
		MO6814DBE630P DD10*, DD22*	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



	S	MO6814SBD624HG44Q143 DD10*, DD22*, DD23*	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000	
		MO6814SBE624HG44Q143 DD10*, DD22*, DD23*	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000	
		MO6814SBD634HG44Q143 DD23*	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6814SBE634HG44Q143 DD10*, DD22*, DD23*	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6814SBE644HG44Q143 DD10*, DD22*, DD23*	M~H	2	4	2.0	4.0	3	3.8	1:0.7~1:2	7.0	DCx27 #14	6,500	
		MO6814DBD624HG44Q143 DD23*	L~M	2	4	2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000	
	D	MO6814DBE624HG44Q143 DD10*, DD22*, DD23*	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #9	7,000	
		MO6814DBE634HG44Q143 DD10*, DD22*, DD23*	L~M	2	4	2.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6814DBE644HG44Q143 DD22*, DD23*	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



	S	MO6816SDE630H DD10*, DD23*	L~M	2	5	3.0	4.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6816SFF630H DD10*, DD22*, DD23*	L~M	2	5	5.0	5.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6816SFF650H DD10*, DD23*	L~M	2	5	5.0	5.0	3	3.8	1:0.7~1:2	7.0	DCx27 #16	6,500	
		MO6816SFH660H DD10*, DD23*	H	2	5	5.0	6.0	3	4.5	1:0.9~1:1.7	7.0	DCx27 #21	6,000	
		MO6816SDE430P DD23*	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
		MO6816SDE430HE35 DD10*, DD23*	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.0	DCx27 #11	7,000	
	D	MO6816DDE430H DD10*	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	
		MO6816DDE430HE35 DD10*	L~M	2	5	3.0	4.0	2	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	

3-needle safety stitching



	S	MO6843S1D640H DD10*, DD23*	M~H	3	6	5.0+2.0	3.0	3	3.8	1:0.7~1:2	6.5	DCx27 #11	7,000	
		MO6843S2D640H DD23*	M~H	3	6	3.0+2.0	3.0	3	3.8	1:0.7~1:2	6.5	DCx27 #11	7,000	
	D	MO6843D1D640H DD10*, DD23*	M~H	3	6	5.0+2.0	3.0	3	3.8	1:0.7~1:2	5.5	DCx27 #11	7,000	

Sewn product pictogram

UNDER SHIRTS	T-SHIRTS	TROUSERS	ONE-PIECE	SKIRT	DRESS SHIRTS	BLOUSE	POLO SHIRTS	JUMPER	SPORTS WEAR	PAJAMA	KNIT SHIRTS	KNIT WEAR	SUIT	COAT	JEANS	HANDKERCHIEF	SCARF
--------------	----------	----------	-----------	-------	--------------	--------	-------------	--------	-------------	--------	-------------	-----------	------	------	-------	--------------	-------

*sti/min is the abbreviation for "stitches per minute"

JUKI ECO PRODUCTS



The MO-6800S(D)/DD Series 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.