

## MO-6500S Series

Overlock / Safety Stitch Machine

*Overlock/safety stitch machine  
to achieve remarkable  
cost-effectiveness*



MO-6514S-BE6-40W

### SUBCLASS MACHINE LIST

Seams	Model No.	Materials L ~ H	Number of needles	Number of threads	Needle gauge (mm)	Overedging width (mm)	Number of feed dog rows	Stitch length (mm)	Bottom differential feed ratio	Presser lifting amount (mm)	Needle system	sewing speed (sti/min)
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#### < 1-needle overlock >

##### For runstitching in general fabric

	MO-6504S-0E6-40K	M ~ H	1	3	—	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min
	MO-6504S-0F6-40K		1	3	—	5.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min

##### For rolled hemming (folded downward)

	MO-6504S-0A4-150	EL ~ L	1	3	—	1.5	2	3.8	1:0.7 ~ 1:2	5.5	DCx27 #8	6,000sti/min
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#### < 2-needle overlock >

##### For runstitching in general fabric

	MO-6514S-BE6-40K	M ~ H	2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min
	MO-6514S-BE6-40W		2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	5,500sti/min
	MO-6514S-BE6-20K		2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #9	6,000sti/min
	MO-6514S-BE6-20W		2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #9	5,500sti/min

##### For tape attaching (G43: Tape attaching presser foot Q142: Tape guide)

	MO-6514S-BE6-24K/G43/Q142	M ~ H	2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #9	6,000sti/min
	MO-6514S-BE6-34K/G43/Q142		2	4	2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min
	MO-6514S-BE7-44W/G43/Q142		2	4	2.0	4.0	4	3.8	1:0.7 ~ 1:2	5.5	DCx27 #14	5,500sti/min

#### < Safety stitching >

##### For runstitching in general fabric

	MO-6516S-DF6-40K	M ~ H	2	5	3.0	5.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #14	6,000sti/min
	MO-6516S-FF6-40K		2	5	5.0	5.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #14	6,000sti/min

#### < 3-needle safety stitching >

##### For runstitching in general fabric

	MO-6543S-1E6-40K	M ~ H	3	6	5.0+2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min
	MO-6543S-2E6-40K		3	6	3.0+2.0	4.0	3	3.8	1:0.7 ~ 1:2	5.5	DCx27 #11	6,000sti/min

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

## Features



### Oil filter mechanism

The machine is provided as standard with an oil filter which filters contaminants from the oil, protects the machine parts from abrading and improves the sewing machine durability.



### Needle bar lubrication mechanism

The needle bar mechanism is sealed to prevent dust from entering inside. This mechanism has been designed to forcibly supply/drain oil.



### Feeding mechanism

Highly-rigid feed mechanism is adopted. It promises direct power transmission.



### Needle bar mechanism

Direct-driven needle bar driving system which transmits power directly to the needle bar is adopted. It also contributes to improved durability.

### Lower-looper longitudinal position fine-adjusting mechanism

The mechanism helps the operator to carry out adjustments of the lower looper.

## SPECIFICATIONS

Model name	MO-6504S	MO-6514S	MO-6516S	MO-6543S
Stitch type	1-needle overlock	2-needle overlock	2-needle safety stitching	3-needle safety stitching
Stitch style in the U.S.A.	504	514	516	—
Max. sewing speed	6,000 sti/min (The maximum sewing speed of the special machine classification "W" is 5,500 sti/min.)			
Max. stitch length	3.8mm			
Needle gauge (mm)	—	2.0	3.0, 5.0	5.0+2.0, 3.0+2.0
Overedging width (mm)	1.5, 4.0, 5.0	4.0	5.0	4.0
Bottom differential feed ratio	1 : 0.7 ~ 1 : 2.0			
Needle bar stroke	24.5mm			
Needle	DC x 27			
Stitch adjusting method	By push-button			
Differential-feed adjusting method	By lever			
Weight of the machine head	26Kg			
Lubrication	Automatic			
Lubricating oil	MO-6500S MACHINE OIL (equivalent to ISO VG32)			
Needle cooler	Option			
Needle thread heat remover	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	USA	Code
1-needle overlock	504	04
2-needle overlock	514	14
2-needle safety stitching	516	16
3-needle safety stitching	—	43

Type	Code
Standard	S

Device and attachment	Code
Tape attaching presser foot /Tape guide	G43/Q142

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Needle gauge (mm)	Overedging width (mm)	Feed dog	Code
—	1.5	2-row	0A4
—	4.0	3-row	0E6
—	5.0	3-row	0F6
2.0	4.0	3-row	BE6
2.0	4.0	4-row	BE7
3.0	5.0	3-row	DF6
5.0	5.0	3-row	FF6
5.0+2.0	4.0	3-row	1E6
3.0+2.0	4.0	3-row	2E6

Material		Application	Special machine classification	Code
Extra light- to light-weight	Light-weight materials	Rolled hemming	Standard	150
		Runstitching		20K
Medium- to heavy-weight	Specific to knits such as sweaters	Tape attaching	Upper looper high throw	24K
				34K
		Runstitching	Upper looper high throw (Applicable to increased overedging width)	20W
				40W
Tape attaching		44W		