KM-1790 SERIES

Direct drive, high speed, 2-needles, needle feed, split needle bar,
lock stitch sewing machine with automatic thread trimmer

For W24H service
www.swf-service.com

KM - 179 □ □ □ - □

KM – 179 □ □ □ – □

Lubrication		Application		Hook		Thread trimming	
0 M	Micro lubrication	G	Medium material	None	Standard	7	Auto-thread trimming type
1	Auto lubrication	B	Heavy material	L	Large hook (x2 Capacity)		

Specification

Model		KM-1790MG	KM-1790MBL	KM-1791BL
Application [material]		Medium	Heavy	Heavy
Max. sewing speed [spm]		3,000	3,000	3,000
Stitch length [mm]		0~5	0~7	0~7
Lift of the presser foot [mm]	Hand	7	7	7
	Knee	15	15	15
	Auto	10	10	10
Thread take up stroke [mm]		52	62.4	62.4
Needle bar stroke [mm]		33.4	33.4	33.4
Height of the feed dog		1	1	1
Working area [mm]		257	257	257
Needle		DPx5 #11~#16 (#16)	DPx5 #14~#22 (#22)	DPx5 #14~#22 (#22)
Hook	Drive type	Rotary	Rotary	Rotary
	Position	Horizontal	Horizontal	Horizontal
	Capacity	-	x2	x2
Lubrication		Micro lubrication	Micro lubrication	Auto
Thread roll		○	○	○
Wiper		○	○	○
Auto backtack		○	○	○
Auto thread trimming		○	○	○
Motor		Servo motor (Direct)	Servo motor (Direct)	Servo motor (Direct)

Specifications and appearance of products are subject to change without notice for the performance improvement.

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#178-212, Gajwa-dong, Seo-gu, Incheon, Korea
tel: 82-32-580-5600 fax: 82-32-584-3020

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WEB - SITE
www.sunstar.co.kr

E - MAIL
marketing@sunstar.co.kr

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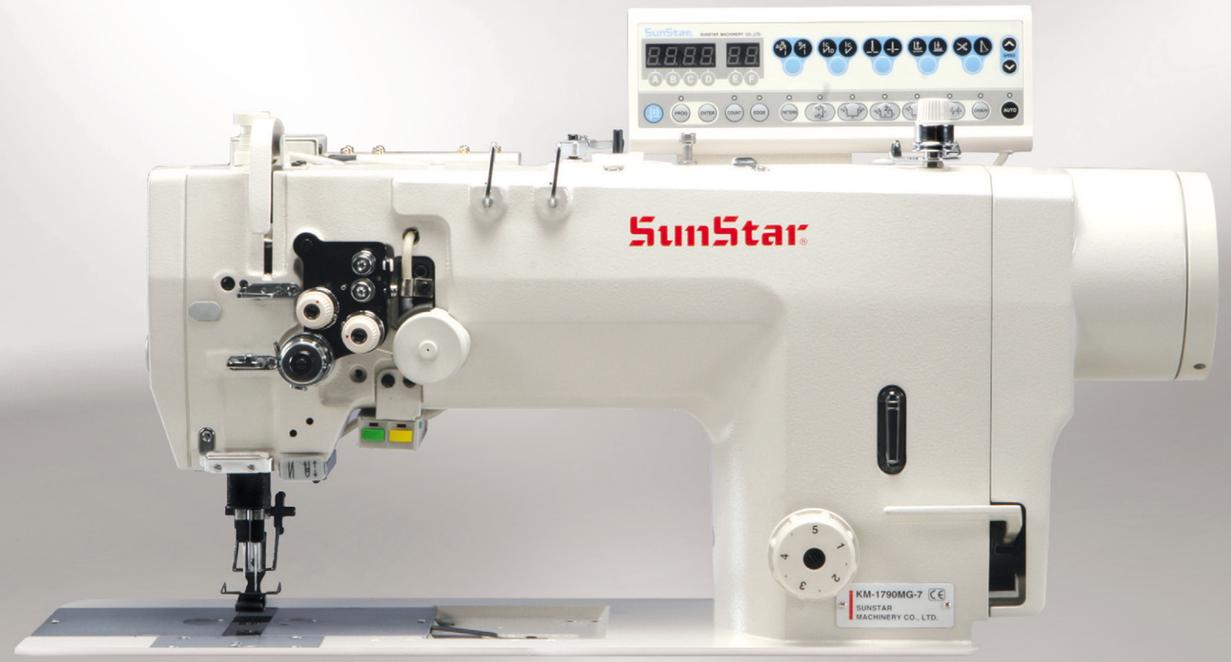

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SunStar

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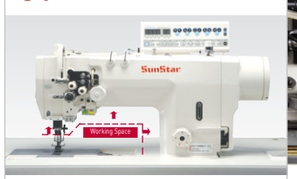
FEATURE

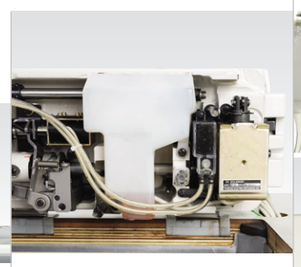
01



Enlarged Working Space

Wider working space leads to improving productivity.

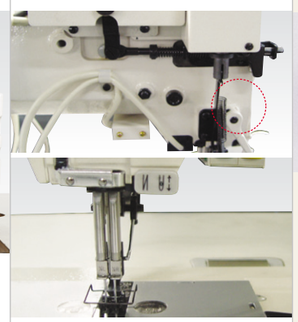
02



Optimized oil supply system

The exclusive oil-tank is used to fuel constant optimum level of oil that supply to hook.

03



Switching unit of Needle Bar

With simple button mechanism for disengaging the left or right needle bar, which enables the operator to engage or disengage the needle bars.

Thread remaining in the bobbin can be verifed easily through inspection windows installed on the left and right sides of each board.

04



Large hook

Thread remaining in the bobbin can be verified easily through inspection windows installed on the left and right sides of each board.

Owing to the fitting of a large hook, double quantity of lower threads can be secured promoting work efficiency (BL type) compared to standard hook.

05



Thread adjusting device

The thread adjusting device is able to control the tension of left and right upper threads separately. In any conditions, clean and high-quality sewing is guaranteed.

06



Thread trimming mechanism

The blades carry out horizontal movement so that they are not subject to readjustment when the needle distance changes, since it can cut any types of thread regardless of its thickness.

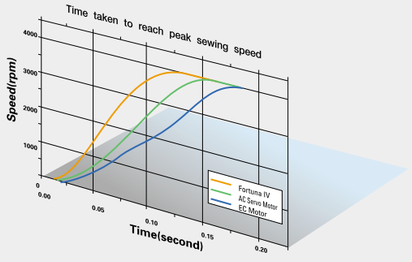
The trimmer blades which have wide operating section can be easily assembled or dissembled.



DIRECT DRIVE

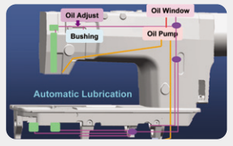
Equipped with 550W AC servo motor, the sewing machine can powerfully handle heavy materials.

Compared with competitors, more stable motor capability is offered (patent filing under way) based on 3-D CAD & CAE interpretation, it produces less noises and low vibration. The sewing machine can make accurate stop, and its prompt and smooth responsiveness leads to productivity enhancement.

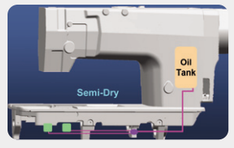




LUBRICATION TYPE



Automatic-lubrication type



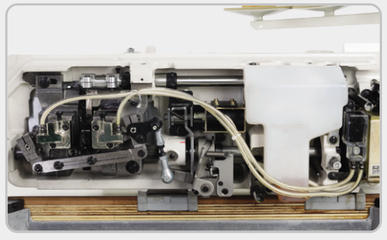
Semi-dry type

The oil circulation system involving oil tank is used to supply oil through hook only.
Oil has been completely removed from the needle bar and the thread take-up.



Micro-lubrication type

The oil tank supplies oil to hook with the oil circulation method.
Very tiny volume of oil is provided to needle bar, enhancing productivity and minimizing the sewing material tainting.



Dry head type is classified into Semi-dry and Micro-lubrication type to minimize risk of polluting sewing material, and special coating is applied to main parts to enhance endurance and wear resistance.