



# KM-1790

Direct Drive, High-speed, 2-needle, Needle Feed  
Split Needle Bar Machine with an Automatic Thread Trimmer

**KM - 179** 

Code	Lubrication Type		Code	Application	Code	Hook	Code	Trimming
O M	Micro Lubrication Type	Dry Head	F	Foundation	None	Standard Hook	None	None-Trimming
1	Auto Lubrication Type		G	General materials	L	Large Hook	7	Trimming

## Specification

Model	KM-1790		KM-1791
	MG	MBL	BL
Application	General	Heavy	
Lubrication	Micro Lubrication		Auto Lubrication
Max. Sewing Speed	3,000 spm		
Max. Stitch Length	5 mm	7 mm	
Engage or Disengage the Needle Bar	Split Needle Bar		
Needle Bar Stroke	33.4 mm		
Thread Take-Up Stroke	52 mm	64.6 mm	
Height of Feed Dog	1 mm		
Height of Presser Foot Lifter	7 mm(by Hand) / 15 mm(by Knee) / 13 mm(by Automatic)		
Hook	Standard	Large Hook	
Needle (DPX5)	#11~#16(#16)	#14~#22(#22)	
Sewing Area	257 mm(Width)), 120 mm(Height), 87 mm(Arm Jaw)		
Bed Size	518 mm × 178 mm		
Bobbin Thread Winder	Built-in the Machine Head (Upper Arm part)		
Automatic Back-tack Device	Provided		
Automatic Trimming Device	Provided		
Motor	AC Servo Motor(550W)		
Power	1-Phase (100~240V), 3-Phase (200~240V, 50/60Hz)		

## Option Gauge (Standard Spec.:1/4")

Model	Spec	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	7/16"	1/2"	5/8"
		2.4mm	3.2mm	4mm	4.8mm	5.6mm	6.4mm	7.9mm	11mm	12.7mm	15.9mm
KM-1790		○	○	○	○	○	○	○	○	○	○
KM-1790BL		○	○	○	○	○	○	○	○	○	○

## Application

A needle feed sewing machine that is completely free from unevenness in material feed and material puckering, suitable to fancy stitching for jeans, vinyl or leather, etc.

\*Specifications and appearance are subject to change for the improvement of products without prior notice.



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AGENT:

Direct Drive, High-speed, 2-needle, Needle Feed Split Needle Bar  
Lock Stitch Machine with an Automatic Thread Trimmer

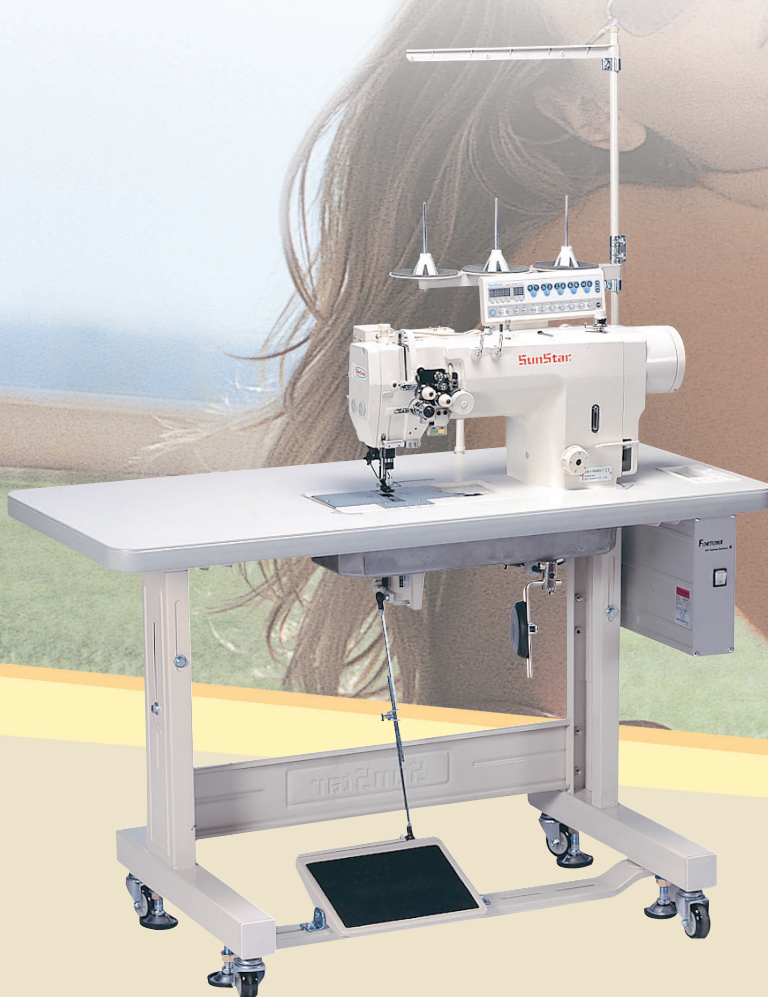
# KM-1790 Series



# KM-1790 Series

## New, High-speed Twin Needle Sewing Machine Series D The Advanced Technology of SunStar!

Combining Fortuna IV AC Servo Motor automatic thread motor with new high-speed twin needle sewing machine series, in which new various functions are integrated to be used conveniently, we have completely applied high-tech mechatronics to sewing machine. This would contribute to enhance quality of sewing pattern and productivity.

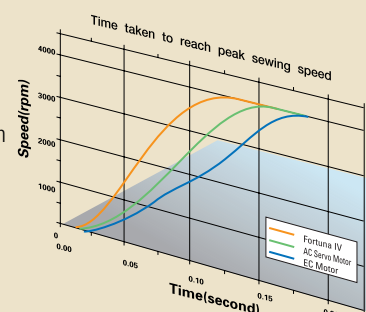


### Direct Drive

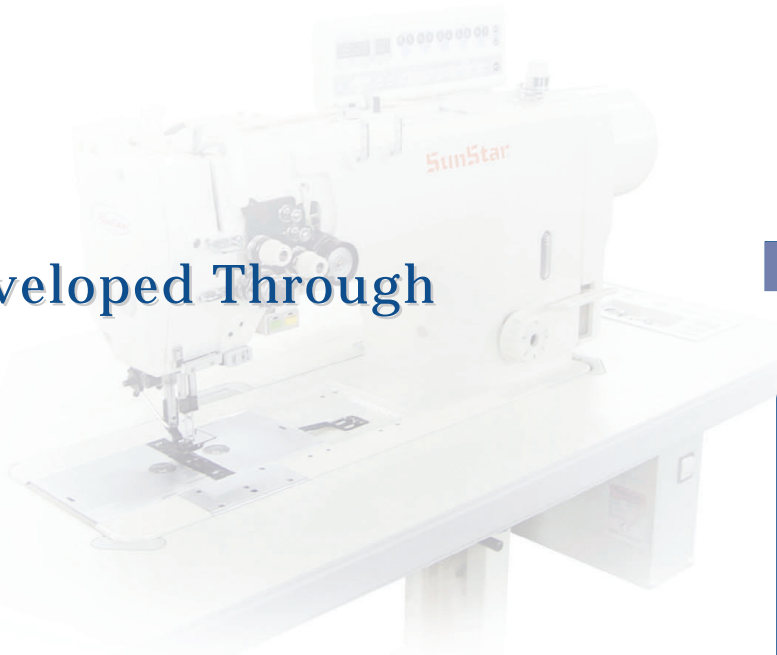


**Equipped with 550W AC Servo Motor, the sewing machine can powerfully handle heavy materials.**

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.

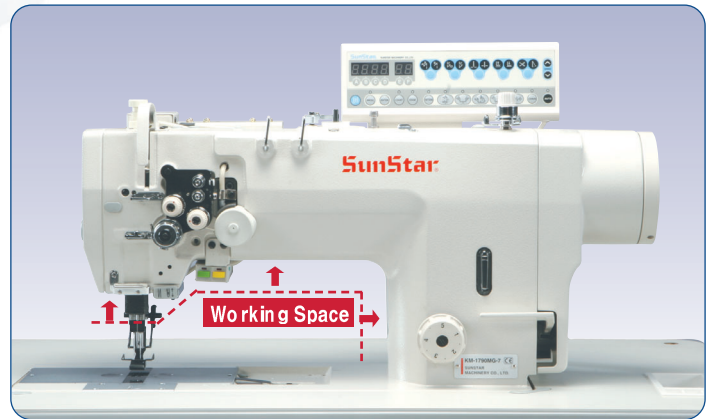


# Developed Through



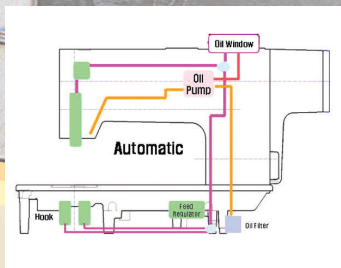
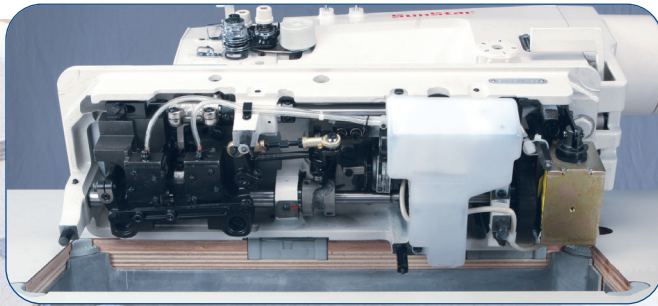
## >> Enlarged Working Space

Wider working space leads to productivity elevation.

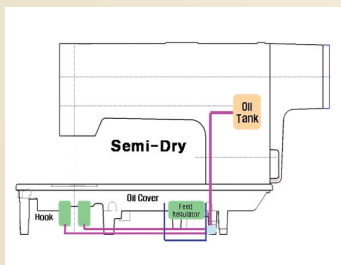


## >> Dry Head Lubrication

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.

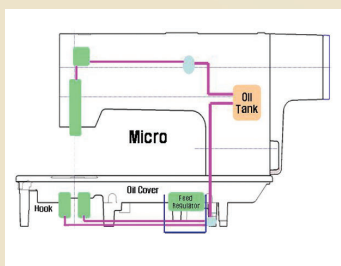


► Automatic-Lubrication Type



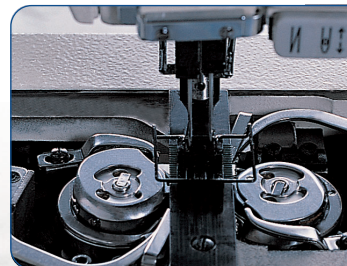
► Semi-dry Type

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

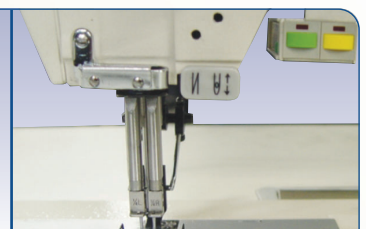
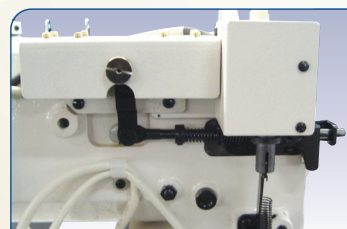
The oil tank supplies oil to hook with the oil circulation method. Very tiny volume of oil is provided to needle bar, enhancing productivity and minimizing the sewing material tainting



- 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 disassembled.

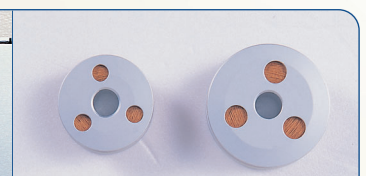
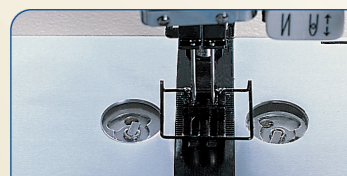


- The thread adjusting device is able to control the tension of left and right upper threads separately. In any conditions, clean and high-quality sewing is guaranteed.



## Engage or Disengage the 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 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 normal hook.