

KM-2300/2310 SERIES

Direct drive, 1-needle, lock stitch sewing machine with automatic thread trimmer



For W24H service
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BOTTOM FEED

KM - 2300

Type	Lubrication	Application
U Upgrade type	F No lubrication	A Light material
E Economy type	S Hook lubrication	G Medium material
	M Micro lubrication	B Heavy material

KM - 2310U

Application	Hook
G Medium material	None Standard
B Heavy material	L Large hook (x2 Capacity)

Specification

Model	KM-2300UFA	KM-2300UFG	KM-2300USA	KM-2300USG	KM-2300UMA	KM-2300UMG	KM-2300UMB
Application [material]	Light	Medium	Light	Medium	Light	Medium	Medium heavy
Max. sewing speed [spm]	3,500	4,000	4,000	5,000	4,000	5,000	4,500
Stitch length [mm]	0~4	0~5	0~4	0~5	0~4	0~5	0~5
Lift of the presser foot [mm]	Hand	5.5	5.5	5.5	5.5	5.5	5.5
	Knee	15	15	15	15	15	15
	Auto (Option)	10	10	10	10	10	10
Thread take up stroke [mm]	60.8	60.8	60.8	60.8	60.8	60.8	62.3
Needle bar stroke [mm]	29	30.7	29	30.7	29	30.7	33.4
Height of the feed dog	0.75 ~ 0.85	0.75 ~ 0.85	0.75 ~ 0.85	0.75 ~ 0.85	0.75 ~ 0.85	0.75 ~ 0.85	1
Working area [mm]	300	300	300	300	300	300	300
Needle	DBx1 SF [KN] #9 (#9-#11)	DBx1 #14 (#9-#18)	DBx1 SF [KN] #9 (#9-#11)	DBx1 #14 (#9-#18)	DBx1 SF [KN] #9 (#9-#11)	DBx1 #14 (#9-#18)	DBx1 #21 (#19-#23)
Hook	Drive type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Position	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Lubrication	No lubrication	No lubrication	Hook lubrication	Hook lubrication	Micro lubrication	Micro lubrication	Micro lubrication
Peripheral device	Thread roll, Wiper, Auto backtack, Auto thread trimming						
Motor	Servo motor [Direct]	Servo motor [Direct]	Servo motor [Direct]	Servo motor [Direct]	Servo motor [Direct]	Servo motor [Direct]	Servo motor [Direct]

Model	KM-2300ESG	KM-2300EMG	KM-2310UG	KM-2310UB	KM-2310UBL
Application [material]	Medium	Medium	Medium	Medium heavy	Medium heavy
Max. sewing speed [spm]	5,000	5,000	5,000	4,500	3,500
Stitch length [mm]	0~5	0~5	0~5	0~5	0~7
Lift of the presser foot [mm]	Hand	5.5	5.5	5.5	5.5
	Knee	15	15	15	15
	Auto (Option)	10	10	10	10
Thread take up stroke [mm]	60.8	60.8	60.8	62.3	62.3
Needle bar stroke [mm]	30.7	30.7	30.7	33.4	34.6
Height of the feed dog	0.75 ~ 0.85	0.75 ~ 0.85	0.75 ~ 0.85	1~1.2	1~1.2
Needle	300	300	DBx1 #14 (#9-#18)	DBx1 #21 (#19-#23)	DBx1 #21 (#19-#23)
Hook	Drive type	DBx1 #14 (#9-#18)	DBx1 #14 (#9-#18)	Rotary	Rotary
	Position	Rotary	Rotary	Vertical	Vertical
	Capacity	Vertical	Vertical	-	x2
Lubrication	Hook lubrication	Micro lubrication	Auto	Auto	Auto
Peripheral device	Thread roll, Wiper, Auto backtack, Auto thread trimming				
Motor	Servo motor [Direct]	Servo motor [Direct]	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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SunStar SunStar CO., LTD.



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SunStar®

FEATURES

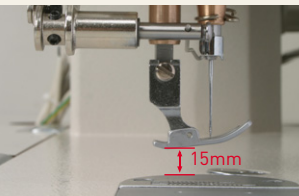
01



Spacious working area

Compared to the existing belt-drive sewing machines, KM-2300U Series can secure more space for sewing. As such, even large sewing materials can be easily handled.

02



Max. height of presser foot lift: 15mm

The presser foot can be lifted up to 15 mm. As such, sewing heavy materials can be conducted conveniently.

03



Easy to use

- **Smooth sewing**
The hinge is placed at the right-hand side not to interrupt sewing materials during sewing.
- **Reverse switch**
The reverse switch is located at the easily reachable position during sewing, boosting working efficiency.
- **Wider visibility**
The height of the lower part of the sewing machine is increased to 72mm. Therefore sewing conditions can be easily checked during work.

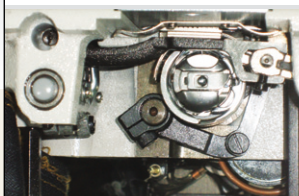
04



The feed dog can be easily adjusted

The feed dog's height, tilt and timing are easily adjustable.

05



Large hook

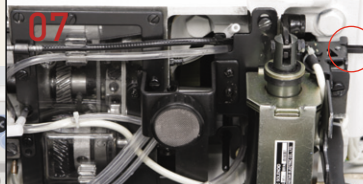
Vertical rotary large hook (x2 capacity) raises the productivity by extending the bobbin replacement time. (KM-2310UBL)

06



Fine presser foot lifter

When dealing with elastic or hairy materials, the presser foot can be slightly lifted for effective sewing.



Convenient maintenance

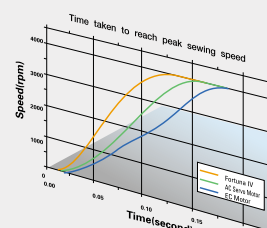
- **Maintenance stability**
Safety switch is installed to not let machine working and get accidents during the maintenance. Although, operator presses the pedals.
- **Removal of V-belt**
It is easy to install a sewing machine by removing the V-belt and there is no concern about noise and vibration by the V-belt during high-speed operation. Also, the problem of spots on the materials caused by the V-belt dust is eliminated and there is no belt slipping problem from long-time use.



DIRECT DRIVE

Equipped with 500W 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.



EASY CONTROL PANNEL



Easy to set function keys

Diverse function keys on the control panel can be easily set, causing no inconvenience in use at all.

Easy to set the up/down stop position of needle bar

The up/down stop position of the needle bar can be easily set with simple operation on the control panel.

Max. speed change with simple key operation

The arrow keys on the right side of the control panel (speed keys) can be used to easily change the max. speed.

NEXT GENERATION CONTROL FORTUNA 4

Modern look and practical design for easy attachment

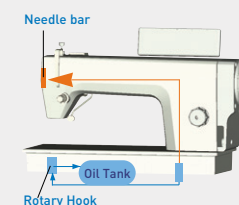
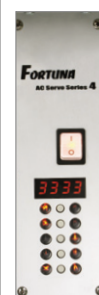
The sleek control box can be easily attached to the sewing machine. Without the control panel, basic functions can be set, boosting convenience in use.

Less noise and low vibration

The optimized control system has effectively reduced electrical noises and vibration. It helps formulate more pleasant working environment.

Speed-up/down function and accurate stop

It can accelerate or slow down the speed. The ability to stop the machine accurately is outstanding. The machine is sensitive to users' pedal movement. After using the machine, you can immediately tell the difference between the machine and the existing belt-drive sewing machines.



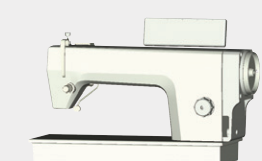
Micro- Lubrication type

(KM-2300UM □, KM-2300UM □)



Semi-Dry type

(KM-2300US □)



Full-Dry type

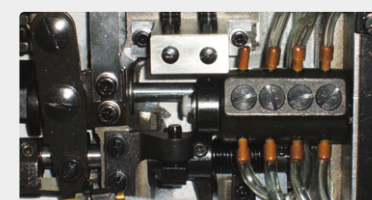
(KM-2300UF □)

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 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.

The oil-free hook is applied. Oil has been completely removed from the needle bar and the hook. No oil smudging problems occur.



Automatic lubrication system (KM-2310 Series)

Automatic lubrication system which is force to be circulated by the piston pump increases the power of the machine during sewing heavy materials. Also, working conditions are optimized according to the users' environment by dividing lubricating oil moderately. It is easy to check the lubrication condition because the oil window is on the proper place.