









▶ 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/dwn 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 wax. speed.

# Mext-G Control Fortuna IV



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 mises and vibration. It helps formulate more pleasant working environment.

▶ Speed-Up/Down Function and Accurate Stop It can accelerate or slow down the speed. 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 V-Belt Removal existing belt-drive sewing machines.

## Easy Maintenance



Maintenance Thanks to safety switch, during repair or maintenance work, the machine is not activated when its pedal is accidentally stepped on. Safety accidents are preventable.

▶ Easy to Check Oil Volume in Gear Box The oil window makes it easy to check remaining oil in the gear box. Timely oil supply is possible.

The ability to stop the machine accurately

| Lubrication-free (KM-2300F | ) Full-dry type uses special holds, which don't require oil supply. As the needle bar and the hook don t use oil, maintenance is not needed.

As V-belt has been removed, installing the machine is much easy. During high-speed operation, belt-generated mises and vibration don't occur. In addition, the problem of tainting saving materials by V-valve dust is not caused any longer. You don't need to worry about belt slip which happens often when the belt is used for a long time.

## Optional Devices

▶ Automatic Knee Lifter



Compact-type automatic knee lifter solenoid attached directly to the machine head in the back minimize loss of power.

▶ The delicate presser foot lifter



The delicate preser foot lifter is installed on the front side. It makes frequent adjustment of the height of presser foot much easier.



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Code	Application	
Α	Light materials	
G	General materials	
В	Heavy materials*	Only for "M" type machine
	A	A Light materials G General materials

Code	Application		Application	
G	General materials			
В	Heavy materials			

For the application code "B" (for heavy materials) only used for "M" (micro-lubrication) type machine is

• For the application code

# Specifications

Lubrication Type

Full Dry Type

Semi-Dry Type

Micro Lubrication Type

Model	Full-dry Type		Semi-dry Type		Micro Lubrication Type		Auto Lubrication Type			
	KM-2300FA	KM-2300FG	KM-2300SA	<b>KM-2300</b> S G	<b>KM-2300</b> M A	<b>КМ-2300</b> м G	<b>КМ-2300</b> м в	<b>KM-2310</b> G	KM-2310 <sub>B</sub>	
Application	Light	General	Light	General	Light	General	Heavy	General	Heavy	
Lubrication	No Lubrication		Hook-Lubrication		Hock-Lubrication, Needle bar Mi		cro Lubrication Auto Lubrication		rication	
Max. Sewing Speed	3,500 spm	4,000 spm	4,000 spm	5,000 spm	4,000 spm	5,000 spm	4,500 spm	5,000 spm	4,500 spm	
Max. Stitch Length	4 mm	5 mm	4 mm	5 mm	4 mm	5 mm		5 mm		
Needle Bar Stroke	29 mm	30.7 mm	29 mm	30.7 mm	29 mm	30.7 mm	33.4 mm	30.7 mm	33.4 mm	
Thread Take-Up Stroke	60.8 mm						62.3 mm	60.8 mm	62.3 mm	
Height of Feed Dog	0.75-0.85 mm						1~1.2 mm	0.75~0.85 mm	1~1.2 mm	
Height of Presser Foot	5.5 mm( By Hand) / 15 mm( By Knee) /15 mm(Automatic, Option)									
Hook	No-Lubrication Hock Auto-Lubrication H					-bok				
Needle	DB×1 SF(KN) #11 (#9-#11)	DB×1#14 (#11-#18)	DB × 1 SF(KN) #11 (#9-#11)	DB×1 #14 (#11~#18)	DB×1 SF(KN) #11 (#9-#11)	DB×1 #14 (#11~#18)	DB × 1 #21 (#19-#23)	DB×1#14 (#11~#18)	DB × 1 #21 (#19-#23)	
Sewing Area	300 mm									
Bed Size	517 mm×178 mm									
Bobbin Thread Winder	Built—in the Machine Head									
Thread Wiper	Provided									
Automatic Back-tack Device	Provided									
Automatic Thread Trimmer	Provided									
Motor	500W Direct Drive AC Servo Motor									
Power	1-Phase: 100-240V, 3-Phase: 200-240V, 50/60 Hz									

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

# SUNSTAR MACHINERY CO., LTD.

#178-212, GAJWA - DONG, SEO - KU, INCHEON, KOREA

sunstar@sunstar.co.kr fortuna@sunstar.co.kr

SUNSTAR MACHINERY (SHANGHAI) CO.,LTD. SHANGHAI BRANCH TEL: 86 21 6353 2233 FAX: 86 21 6353 FAX : 86 21 6353 8640 SUNSTAR QINGDAO BRANCH TEL : 86 532 482 2236 FAX : 86 532 481 1262

SUNSTAR TIANJIN BRANCH TEL: 86 22 2445 8882 FAX: 86 22 2445 2400 FAX: 852 2729 7573 FAX: 86 769 234 4042 L : 86 769 249 1610 FAX: 86 595 859 8872 FAX: 1 305 591 0661 FAX: 84 8 811 4588 FAX: 84 4 734 0278 SUNSTAR NEW DELHI OFFICE FAX: 91 124 280 3007 SUNSTAR JAKARTA BRANCH OFFICE TEL: 62 21 4586 5839 FAX: 62 21 4586 5840 SUNSTAR MACHINERY(SINGAPORE) FAX: 008 65 6341 5016

TEL: 008 65 6341 5015

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Direct Drive, High-speed, 1-needle Lock Stitch Machine with an Automatic Thread Trimmer

KM-2300 Series



SunStar.

# KM-2300 Series

# Direct Drive, High-speed, 1-needle Lock-Stitch Machine with an Automatic Thread Trimmer

SunStar Next Generation High-speed Lock Stitch Machine

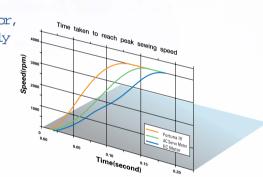
- Direct drive Next-G Control Fortuna IV
- Innovative lubrication mechanism(Full-dry, Sami-dry, Micro-lubrication)
- Improved sewing quality

# Direct Drive



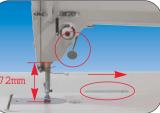
# Equipped with 500W AC Servo Motor, the sewing machine can powerfully handle heavy materials.

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 to Use Bobbin Winder The device to wind lower thread is installed on the top of the machine. The thread volume control and lower thread winding are much nare convenient.

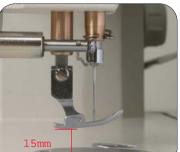


▶ Smooth Sewing The hinge is placed at the right-hand side not to interrupt sewing materials during sewing.

Reverse Switch The reverse switch is located at the easily reachable position during sawing, boosting warking efficiency.

▶ Wider Visibility

The height of the lower part of the sewing machine is incressed to 72mm. Therefore sewing conditions can be easily checked during work.



Adjusted.

The feed dogs height, tilt and timing are esily adustable

Max. Height of Presser

Foot Lift: 15mm

# Spacious Working Area

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



# Automatic Oil Supply (KM-2310)

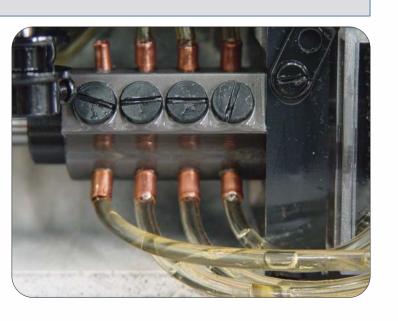


-Attrition-resistant thacks to the forced apply of sufficient oil to each moving part - Sheft vibration reduced with the support from the bushing instead of the bearing Resolution of bearing's structural problems such as bearing scratch, drack or abromal attribution, when used in bed conditions.

- Reliable as much as the existing automatic oil supply swing machine -No need of maintenance: no need to make regular exchange of gresse at each oiled moving part of the dry head machine
- ▶ Enhanced machine durability ← Supression of temperature increase at each oiled moving part
- ▶ Especially Suitable for Heavy Materials

Since sufficient oil is supplied to each oiled moving part, the machine is suitable for sawing heavy materials where load on the machine is created at the highest level. -Searching structure designed for heavy materials sewing + 500W AC Servo Motor +

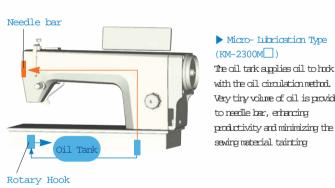
four corners feed dog motion + large sewing space



# Oil Stain-free Sewing

The law-volume lubrication or no lubrication technology of SunStar is leveraged to remove oil from the inside of the sewing machine. It resolves the problem of tainting sewing









(KM-2300M□)

The oil tank supplies oil to book

Very tiny volume of oil is provided

to needle bar, erhancing

sewing material tainting

# Improved Sewing Quality



## Enhanced Seaming Mechanism

Newly developed light thread takeup and various transfer devices are applied depending on sewing materials. Forward sewing materials movement is superior, and highquality sawing can be achieved.

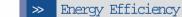


# Stable Thread Trimmer

Thread trimmer boasts stable function. The rotary thread trimmer can be easily adjusted depending on the thickness of sewing materials. Remnant thread can be minimized.



Fine Presser Foot Lifter When dealing with elastic or hairy materials, the presser foot can be slightly lifted for effective sawing.



SurStar's Direct Drive AC Servo Motor directly sends power to the upper shaft. This optimal design minimizes energy loss. Compared with existing AC Servo motors, it consumes much less energy.

