

KM-250 SERIES

High speed, 1-needle, lock stitch sewing machine
with automatic thread trimmer



For W24H service
www.sunstarcs.com

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KM - 250

KM - 250

Application	
AU	Extra light material
AL	Light material
A	Medium material
B	Heavy material
BH	Extra heavy material
BL	Heavy material (large hook)

Thread trimming & Motor	
None	Non-thread trimming : Clutch motor
7S	Auto-thread trimming : Servo motor

Specification

Model		KM-250AU-7S	KM-250AU	KM-250AL-7S	KM-250AL	KM-250A-7S	KM-250A
Application [material]		Extra light	Extra light	Light	Light	Medium	Medium
Max. sewing speed [spm]		3,200	3,200	5,500	5,500	5,500	5,500
Stitch length [mm]		0~4	0~4	0~4	0~4	0~4	0~4
Lift of the presser foot [mm]	Hand	5.5	5.5	5.5	5.5	5.5	5.5
	Knee	14	14	14	14	14	14
	Auto	10	10	10	10	10	10
Thread take up stroke [mm]		59.2	59.2	59.2	59.2	59.2	59.2
Needle bar stroke [mm]		28.7	28.7	30.7	30.7	30.7	30.7
Needle		DBx1 KN (SF)#9	DBx1 KN (SF)#9	DBx1 #9~#18	DBx1 #9~#18	DBx1 #9~#18	DBx1 #9~#18
Hook	Drive type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Position	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
	Capacity	-	-	-	-	-	-
Lubrication		Auto	Auto	Auto	Auto	Auto	Auto
Thread roll		O	O	O	O	O	O
Auto thread trimming		O	-	O	-	O	-
Motor		Servo motor	Clutch motor	Servo motor	Clutch motor	Servo motor	Clutch motor

Model		KM-250B-7S	KM-250B	KM-250BH-7S	KM-250BH	KM-250BL-7S	KM-250BL
Application [material]		Heavy	Heavy	Extra heavy	Extra heavy	Heavy	Heavy
Max. sewing speed [spm]		4,500	4,500	3,500	3,500	3,500	3,500
Stitch length [mm]		0~7	0~7	0~7	0~7	0~7	0~7
Lift of the presser foot [mm]	Hand	5.5	5.5	5.5	5.5	5.5	5.5
	Knee	14	14	14	14	14	14
	Auto	10	10	10	10	10	10
Thread take up stroke [mm]		62.3	62.3	67	67	67	67
Needle bar stroke [mm]		33.4	33.4	34.6	34.6	33.8	33.8
Needle		DBx1 #20~#23	DBx1 #20~#23	DBx1 #20~#23	DBx1 #20~#23	DBx1 #20~#23	DBx1 #20~#23
Hook	Drive type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Position	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
	Capacity	-	-	-	-	x2	x2
Lubrication		Auto	Auto	Auto	Auto	Auto	Auto
Thread roll		O	O	O	O	O	O
Auto thread trimming		O	-	O	-	O	-
Motor		Servo motor	Clutch motor	Servo motor	Clutch motor	Servo motor	Clutch motor

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

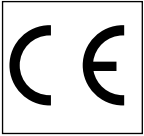
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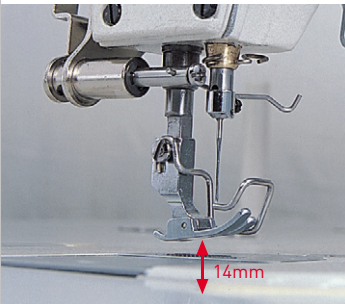
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FEATURES

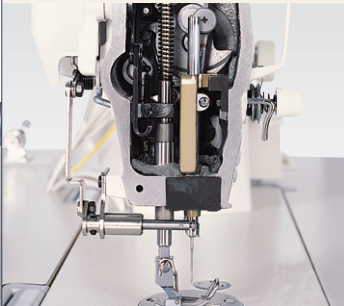
01



Max lifting volume of presser foot

The highest record among the sewing machines of similar grade. Max lifting volume of presser foot is up to 14mm.

02



The improved sewing quality

In order to smoothly perform the maximum sewing speed of 5,500spm (common speed is 5,000), it adopts a high-quality aluminum thread take-up level. With the use of high-performance impeller pump, the durability of sewing machine on the internal moving parts was increased.

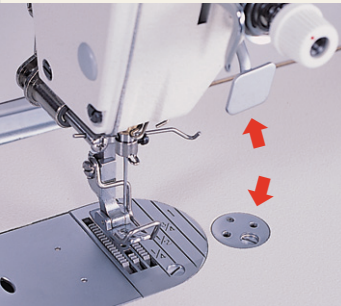
03



Compact-type auto knee lifter by solenoid

Compact-type auto knee lifter with solenoid attached directly to the machine head on the back minimize loss of power. It is connected and disconnected easily. It also can make the better operation by providing enough space in bottom area of table [Option].

04



Improve user's convenience

A variable accessories are provided to improve productivity. (The Soft touch reverse button and the attachment sheet for installation.)

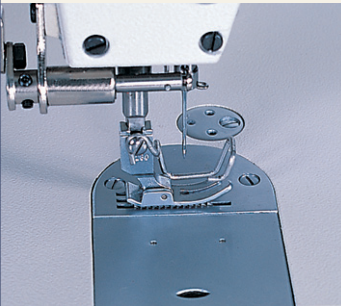
05



Thread trimming mechanism

The thread trimming mechanism equipped with copper knife and fixing knife made by special materials improved anti-abrasion and durability. The thread trimming power can be adjusted easily. The remaining thread after trimming is minimized, leaving the shortest remaining thread among similar types of machine.

06



Beautiful sewing stitch quality

The ideal saw teeth movement and seaming structure designed for the low-tension sewing minimized puckering and realize the elegant sewing results with the excellent straight sewing quality.

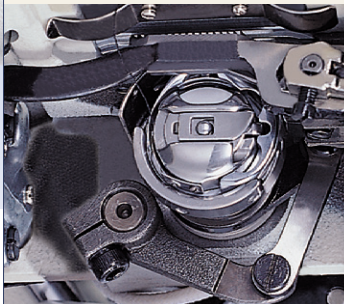
07



The strong sewing power and beautiful stitch

The Feeding stitching mechanism for medium thickness material as well as for ultra heavy material guarantee powerful sewing and beautiful stitch. (KM-250B)

08



Large hook (x2 capacity)

Large hook (x2 capacity) raises the productivity by extending the bobbin replacement time. (KM-250BL)

High speed, 1-needle, lock stitch sewing machine with automatic thread trimmer series developed through the advanced technology of SunStar.

A new advanced mechatronics has been ideally achieved by adoption of the newly developed and automatic thread trimming Fortuna AC servo motor to be equipped with the newest advanced function. The various functions were created for operational convenience. This new product will greatly contribute to high quality of sewing pattern and enhancement of productivity.

FORTUNA - 5

Installed the Fortuna AC servo motor series 5 with up-to-date functions!!

Model	Input Phase	Main Functions	Standard Parts
S3AC55 - 1 <input type="checkbox"/>	1Ø 110V	• Simple speed changing function using the program unit • Categorized speed adjustment of start / end back tack	• Synchronizer
S3AC55 - 2 <input type="checkbox"/>	1Ø 220V	• Adjustment of sewing machine speed increase curve • Adjustment of the remaining upper thread's length after thread trimming	• Pedal connecting rod
S3AC55 - 3 <input type="checkbox"/>	3Ø 220V	• Adjustment of the pressure for pedal operation	• Power switch box etc.



Function	Model	BasicType	Option Type
• Start and end back-tack work		<input type="radio"/>	<input type="radio"/>
• Selection of needle up/down stop position		<input type="radio"/>	<input type="radio"/>
• Selection of presser foot up/down stop position		<input type="radio"/>	<input type="radio"/>
• Selection of thread trimmer and wiper performance		<input type="radio"/>	<input type="radio"/>
• Correction or change of needle up/down stop position		<input type="radio"/>	<input type="radio"/>
• Input of various sewing conditions		<input type="radio"/>	<input type="radio"/>
• Programed number of stitches and programed sewing speed pattern work			<input type="radio"/>
• Pattern connection function (Chain function)			<input type="radio"/>
• Counter installment possible			<input type="radio"/>
• Sewing material edge sensor installment possible			<input type="radio"/>

SPECIFICATIONS

- Quick and accurate position control. Swift response (Superbly fast acceleration and deceleration)
- Powerful program unit
- Easy to use speed change function
- Enhanced pattern sewing function
- Accurate back tack stitch number correction function
- Easy installment in any sewing machine
- Well-adaptable machine that fits any sewing environment
- Designed to meet the standard requirements of developed countries such as those of the US and European countries.
- Input/output as well as sequence changing functions appropriate for special equipment development.

MOTOR SPEC

Rated Power Generation (W)	550W
Rated Rotation Speed	3,000rpm
Maximum Rotation Speed	3,400rpm
Insulation Grade	Class B
System Protection	IP 40