

# KM-2070 Series

KM-2070 Series to lead Industrial Sewing Machine in New Millennium based on the best reliability

## The best operation efficiency

User can sew the various patterns, selecting the buttons on the operation panel. Besides, the optimized zigzag feeding system enables the machine to sew the 10mm of zigzag width with 2-step and 3-step. Fast and low-noise operation is secured through the system in which the main shaft is rotated by the AC servo motor.

## Outstanding productivity

The machine can sew at the maximum speed of 5,000spm, which provides the high productivity in the field. Besides, it eliminates the negative factors for productivity by having the electronic structure without cam, which should be exchanged whenever user changes the patterns.

## Provision of the various patterns

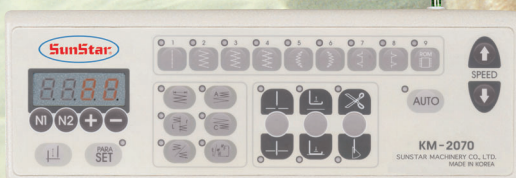
The machine provides 16 patterns like straight, standard, 2-step, 3-step, scallop, blind stitches, L-Stitches, etc as basic patterns and have the capability to memory up to 99 patterns of user's own as well. The machine can also provide L-stitch pattern basically. (patent pending)

## Easy maintenance and repair

The machine has no zigzag cam, screw gear, etc which are assembled in the mechanical zigzag machines. It allows the machine to reduce its part numbers and weight, increase its durability and provide as easy maintenance and repair as possible.

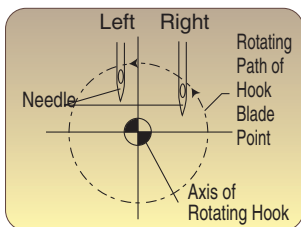
## Automatic Presser Foot Lifter(Optional)

## Program Unit Box

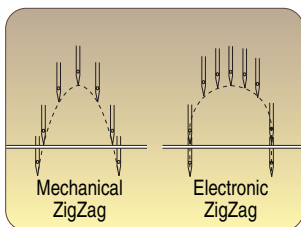


User can set up almost every function by pushing the button only one time the program unit box which have the icons to handle the various functions. And user can also make up new zigzag patterns on user's own only with the program unit box, which does not need any extra input panel.





Off-center mechanism of the hook axis allows the hook to form the fine thread loop. In the result of this system, the machine prevents from thread-cutting and stitch-skipping during the operation and provides the quality sewing.



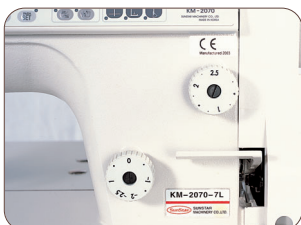
The needle moves up and down with the exact vertical angle to sewing materials, which prevents from damaging the sewing materials and deforming the needle.



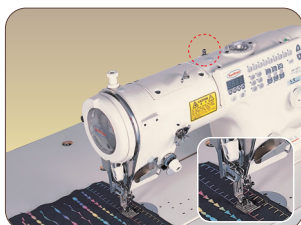
Off-center hook coated with titanium secures the excellent durability and keeps the thread and sewing materials from being tainted.



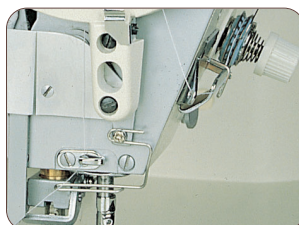
It has the optimized hook shape and the most suitable timing of needle and hook. And it also provides the stable thread tension by improving the passing way of upper thread.



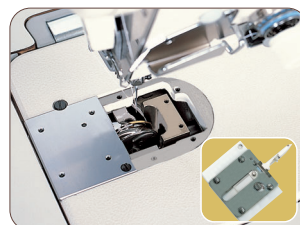
Adopting new condense dial makes it easy to set condense stitch, which would enhance productivity.



The presser foot minute-lifting mechanism effectively prevents the sewing materials from slipping and being damaged as that it implements fine stitches.



The machine is equipped with the upper thread feeding device to effectively adjust the length of the remaining thread after trimming the thread.



The optimized thread trimming mechanism minimizes the cutting error. The cutting section is assembled in one unit so that user can do its maintenance and repair easily and simply.

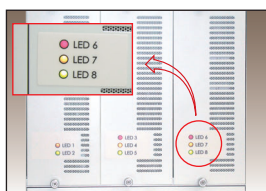
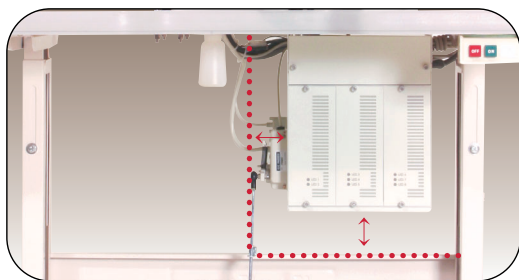
## Basic Patterns

	Straight	Standard ZigZag	2-Step ZigZag	3-Step ZigZag	Scallop(Left)				Scallop(Right)				Blind(Left)		Blind(Right)		User Pattern
					1	2	3	4	1	2	3	4	Normal	L-Stitch*	Normal	L-Stitch*	
Sewing Pattern																	99 Patterns
Number of Stitches	—	2	4	6	24	12	24	24	24	12	24	24	Up to 99 Stitches for Straight Line				256 Stitches per Pattern

## >> Control Box

### • Smaller and Lighter Control Box

It is 30% smaller and 50% lighter than the previous control box, so that the space under the sewing table is dramatically expanded.

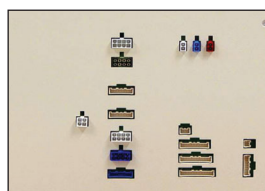
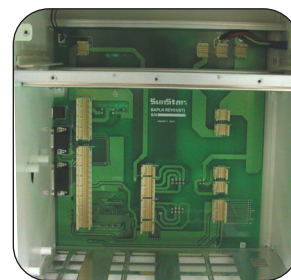


### • Easy Breakdown Recognition

When machine errors occur, the LED lamp blinks to help users easily pinpoint and check problematic areas.

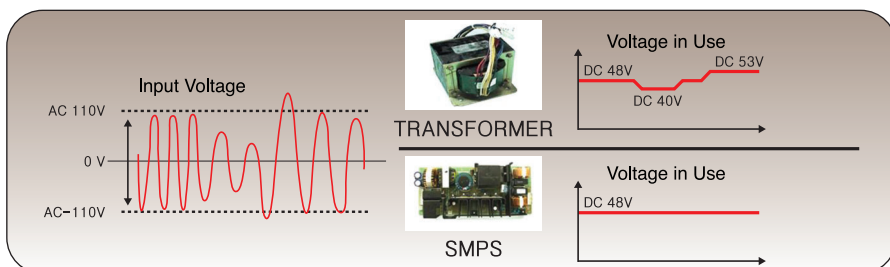
### • Rack Type Design

With wireless rack-type structure, it is highly durable, reduces heat generation, and supports easy A/S service.



### • Connector for External Input

The external actuators on the motor and the solenoid are linked to connectors, enabling easy input from the outside.



### • Choice of Dedicated SMPS

SPMS is customized and optimized for the sewing machine. This has reduced heat generation in relation to voltage change and resolved the stop-motor mal-operation issue.

# KM-2070 Series

## KM-2070-7 KM-2070

Electronically Controlled 1-Needle ZigZag  
Lock Stitch Machine with Automatic Thread Trimmer

Electronically Controlled 1-Needle ZigZag  
Lock Stitch Machine

KM

2070



### Application

L	Light Materials
M	General Materials

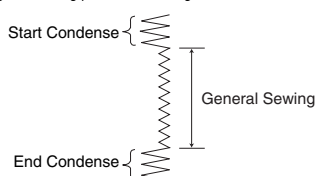
## Specification

Model		KM-2070-L	KM-2070-7L	KM-2070-M	KM-2070-7M
Max. ZigZag Width		8m/10mm(2-step, 3-step)			
Max. Sewing Speed		5,000spm(4,000spm at the time of shipment)			
Max. Stitch Length		2.5mm		5mm	
Needle		SY1965 Nm 70/10 or DPx5#10			
Hook		DP Hook(Titanium Coated inner Hook), Hook center is offset			
Height of Presser Foot	By Hand	6mm			
	By Knee	10mm			
	Automatic	7mm(Optional)			
Automatic Thread Trimmer		x	★	x	★
Upper Thread Feeding Device		x	★	x	★
Backtack / Condense Device		★	★	★	★
Thread Wiper		x	★	x	★
Provided Patterns		Basic : 8 Kinds, 16 patterns User Input Pattern : Max. 99 patterns, 256 stitches per pattern			
Pattern Input Function		Built in the program unit box			
Motor		550W A/C Servo Motor			
Power		1-Phase : 100~240V, 3-Phases : 200~415V, 50/60Hz			

## “Examples of the Patterns”

### - Condense Patterns -

User can set up the stitch numbers and width for start & end condense patterns in order to prevent the thread on the starting and ending points from being untied.



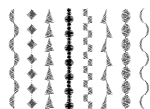
### - User Pattern -

User can input its own patterns up to 99 by using the program unit box.

(Total 25,344 stitches available)

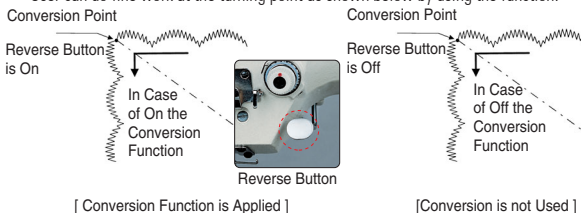
- Maximum patterns to be input : 99 patterns

- Stitch range of each pattern : 1~256 stitches



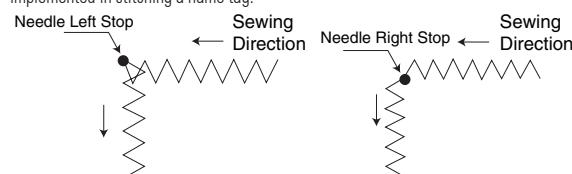
### - Conversion Function -

User can do fine work at the turning point as shown below by using the function.



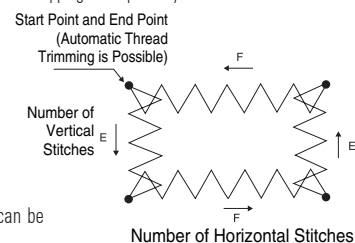
### - Left and Right Positioning of Needle -

User can control the (left and right) stop position of needle so that fine stitches can be implemented in stitching a name tag.



### - Name Tag Stitching -

User can set up the numbers of vertical & horizontal stitches, then can sew the materials automatically as to the set-up and cut the thread at the ending point by stepping a foot pad only one time.



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



# SUNSTAR MACHINERY CO., LTD.

### TRADE OFFICE

# 178 -212. GAJWA - DONG, SEO - KU, INCHEON KOREA  
TEL : (82 - 2) 580 - 5740 ~ 60 FAX : (82 - 32) 584 - 3025 ~ 6

### WEB - SITE

http : // www.sunstar.co.kr

### E - MAIL

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

### OVERS EAS NETWORK

SUNSTAR MACHINERY (SHANGHAI) CO.,LTD.  
TEL : 86 21 6957 6311 FAX : 86 21 6957 6312  
SUNSTAR MACHINERY (SHANGHAI) CO.,LTD. SHANGHAI BRANCH  
TEL : 86 21 6353 2233 FAX : 86 21 6353 8640  
SUNSTAR QINGDAO BRANCH  
TEL : 86 532 482 2236 FAX : 86 532 481 1262  
SUNSTAR NANJING BRANCH  
TEL : 86 25 464 7389 FAX : 86 25 464 7389  
SUNSTAR HANGZHOU BRANCH  
TEL : 86 571 8704 4709 FAX : 86 571 8601 6046

### OVERS EAS NETWORK

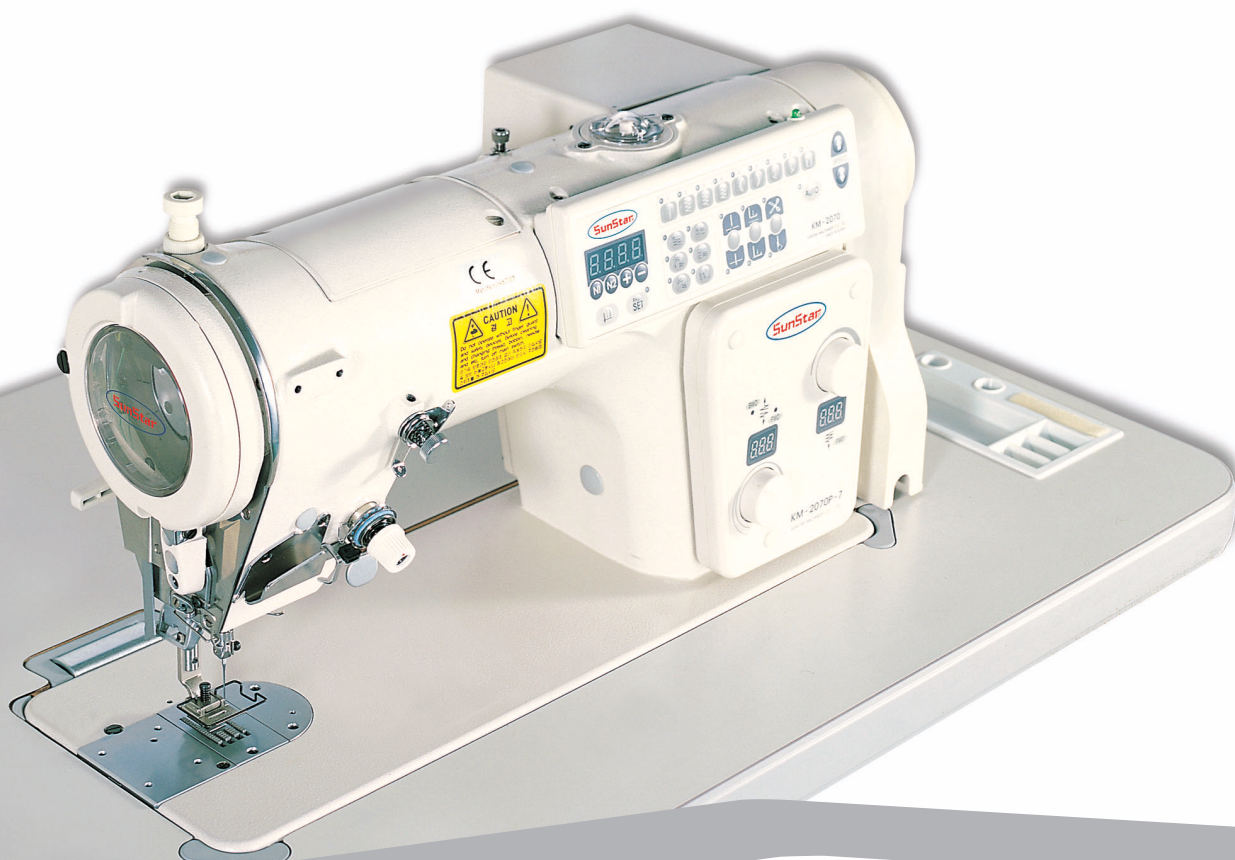
SUNSTAR TIANJIN BRANCH  
TEL : 86 22 2445 8882 FAX : 86 22 2445 2400  
SUNSTAR HONGKONG LTD.  
TEL : 852 2729 707 FAX : 852 2729 7573  
SUNSTAR GUANGDONG BRANCH  
TEL : 86 769 249 1610 FAX : 86 769 234 4042  
SUNSTAR FUJIAN BRANCH  
TEL : 86 595 8859 8871 FAX : 86 595 8859 8872  
SUNSTAR U.S.A. INC.  
TEL : 1 305 591 9596 FAX : 1 305 591 0661  
SUNSTAR HOCHIMINH BRANCH OFFICE  
TEL : 84 8 811 0302 FAX : 84 8 811 4588  
SUNSTAR HANOI BRANCH OFFICE  
TEL : 84 4 734 0268 FAX : 84 4 734 0278  
SUNSTAR NEW DELHI OFFICE  
TEL : 91 124 280 3006 FAX : 91 124 280 3007  
SUNSTAR JAKARTA BRANCH OFFICE  
TEL : 62 21 4586 5839 FAX : 62 21 4586 5840  
SUNSTAR MACHINERY(SINGAPORE)  
TEL : 008 65 6341 5015 FAX : 008 65 6341 5016

AGENT:

May 2006 Printed in Korea

Electronically Controlled  
1-Needle ZigZag Lock Stitch Machine

# KM-2070 Series



SunStar®