

# KM-2070P Series

## KM-2070P-7

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

## KM-2070P

Electronically Controlled 1-Needle Pattern ZigZag  
Lock Stitch Machine

**KM**

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**2070P**

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Trimming and Motor	
No mark	Non-Trimming Type : Clutch Motor
7S	Trimming Type : Servo Motor

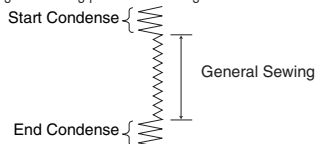
### Specification

Model	KM-2070P	KM-2070P-7
Max. ZigZag Width	8m/10mm (2-Step, 3-Step)	
Max. Sewing Speed	5,000spm (4,000 spm at the time of shipment)	
Max. L-Stitch Sewing Speed	3,000spm	
Max. Stitch Length	2.5mm	
Needle	SY1965 Nm 70, DP x5 #10	
Hook	DP Hook (Titanium Coated Inner Hook)	
Height of Presser Foot	By Hand	6mm
	By Knee	10mm
	Automatic	7mm(Optional)
Automatic Thread Trimmer	×	★
Upper Thread Feeding Device	×	★
Backtack / Condense Device	★	★
Thread Wiper	×	★
Provided Patterns	Basic : 8 Kinds, 16 patterns	
User Input Pattern	Max. 99 patterns(Max.256 stitches/patterns)	
Pattern Input Function	Built in the program unit box	
Motor	550W AC Servo Motor	
Power	1-Phase : 100~240V, 3-Phases : 200~415V, 50/60Hz	

### “Examples of the Patterns”

#### - Condense Patterns -

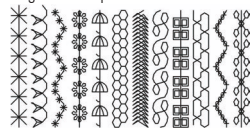
User can set up the stitch numbers and width for start & end condense patterns in order to prevent the thread on the starting and ending points from being untied.



#### - User Pattern -

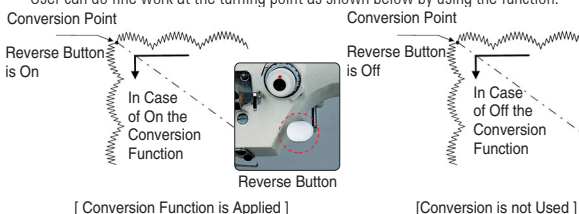
User can input its own patterns up to 99 by using the program unit box.

- (Total 25,344 stitches available)
- Maximum patterns to be input : 99 patterns
- Stitch range of each pattern : 1~256 stitches



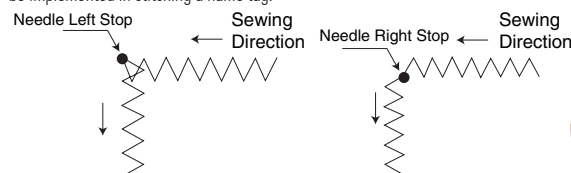
#### - Conversion Function -

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



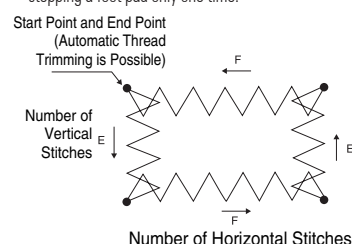
#### - Left and Right Positioning of Needle -

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.



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#### OVERSEAS NETWORK

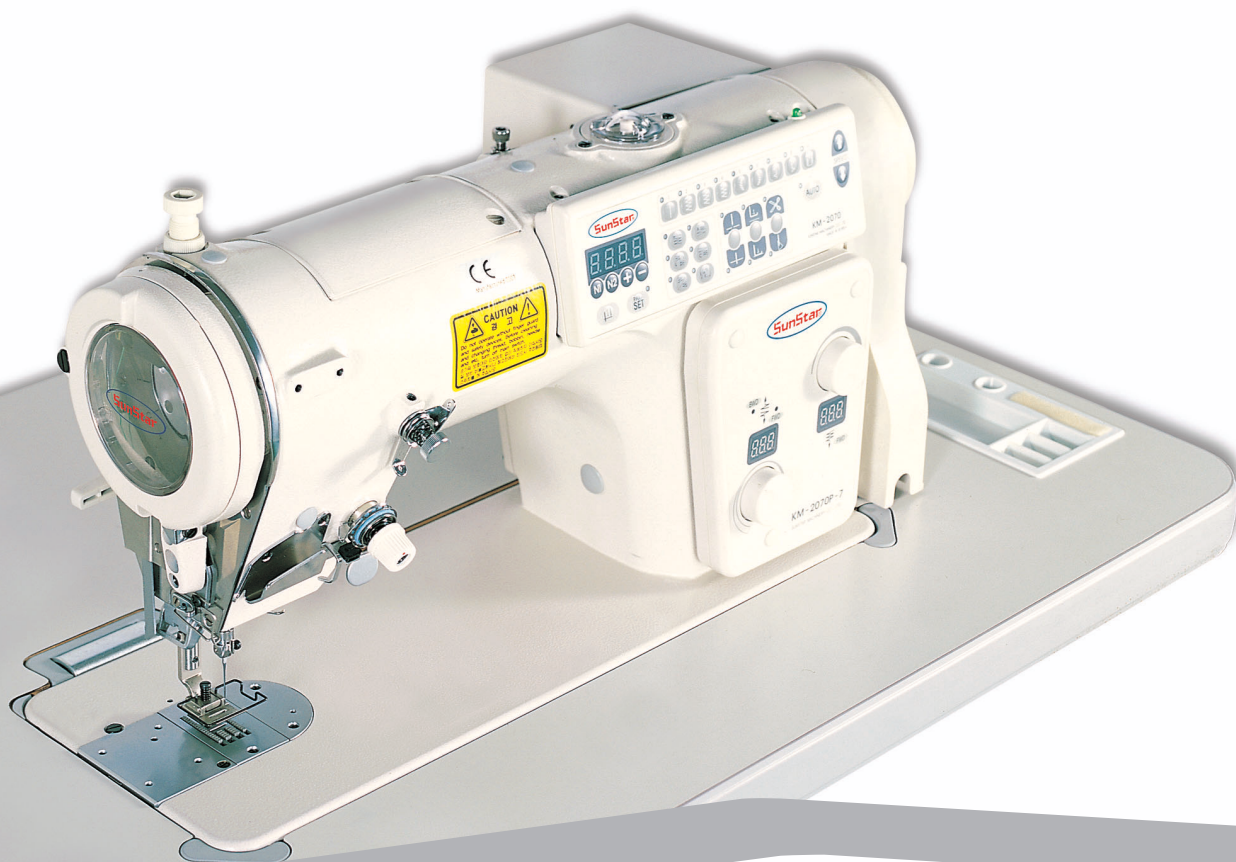
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\* Specifications and appearance are subject to change for the improvement of products without prior notice.

AGENT:

Electronically Controlled 1-Needle  
Programmable ZigZag Lock Stitch Machine

# KM-2070P Series





# KM-2070P Series

KM-2070P Series, the World's First Concept to Realize Programmable Zigzag Sewing Pattern, Borning from SunStar's Advanced Technology



## The best L-stitch sewing speed

*The KM-2070P Series amazed the world by becoming the first sewing machine to obtain an L-stitch sewing speed of 3,000spm. The Series includes the world first electronically controlled stitch Length adjusting dial (PATENT), which increases productivity. It can carry out various types of high-speed sewing patterns, free from design and the existing zigzag function.*

## The best operation efficiency

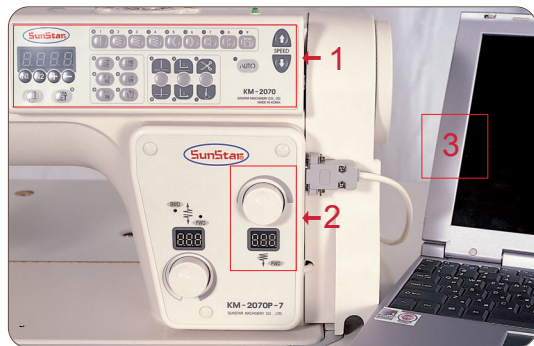
User can sew the various patterns, selecting the buttons on the operation panel. Besides, the optimized zigzag feeding system enables the machine to sew the 10mm of zigzag width with 2 step and 3 step. Fast and low-noise operation is secured through the system in which the main shaft is rotated by the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

Reaching speeds of 3,000spm for the first time in the world, this series greatly increases productivity for L-stitch users.





### 1. Operation Panel

Various functions can be used by clicking icons on the operation panel, so that all functions are just one-touch away. Without the need to use an additional input device, it is possible to create zigzag patterns by pressing buttons.

### 2. Electronic Stitch Count Control Dial (Patented)

Stitch count can be adjusted with the stepping motor. As such, it is suitable for sample production by fashion and sewing industrial designers and the production of unique patterns.

### 3. Simple Sewing Pattern Input

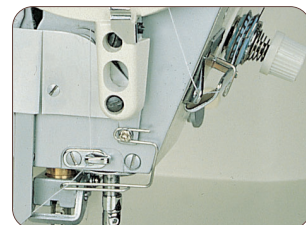
- KM-2070P-dedicated pattern input program (SSP software) is offered as default.
- Due to the similarity to the existing SSP, the program is easy to use.
- Patterns can be input through PDA (SSPDA).



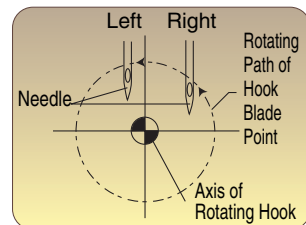
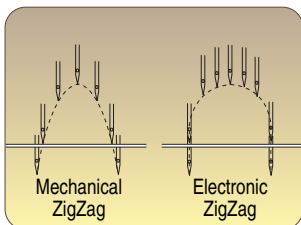
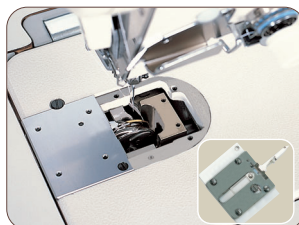
Off-center hook coated with titanium secures the excellent durability and keeps the thread and sewing materials from being tainted.



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. And the cutting section is assembled in one unit so that user can do its maintenance and repair easily and simply.

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 mechanism of the hook axis allows the hook from 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.

## Basic Patterns

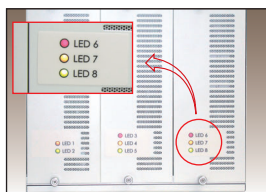
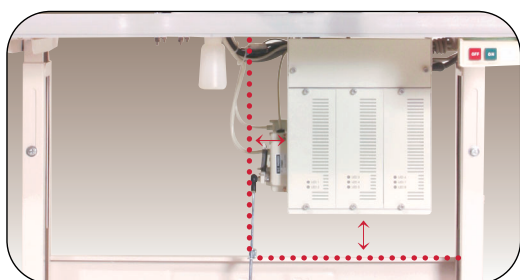
	Straight	Standard ZigZag	2-Step ZigZag	3-Step ZigZag	Scallop(Left)				Scallop(Right)				Blind(Left)		Blind(Right)		User Pattern
					1	2	3	4	1	2	3	4	Normal	L-stitch*	Normal	L-stitch*	
Sewing Pattern																	99 Patterns
Number of Stitches	—	2	4	6	24	12	24	24	24	12	24	24	Up to 99 Stitches for Straight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

\* User can program and memory up to 99 zigzag patterns on users own except the above 16 basic patterns. (Please refer to the users 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.

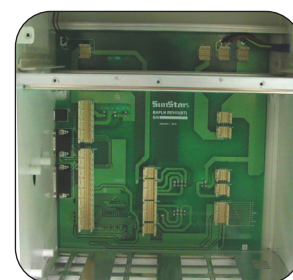


#### • Easy Breakdown Recognition

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

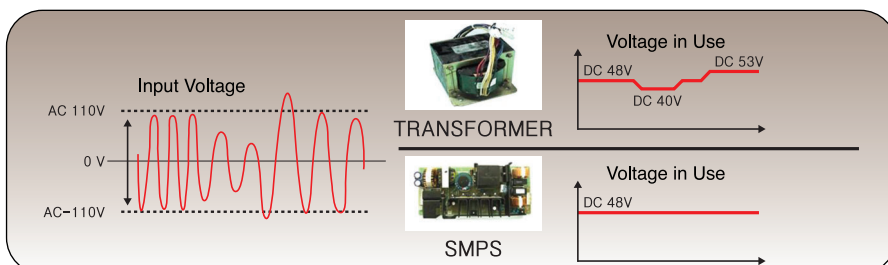
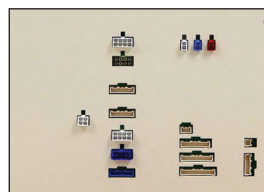
#### • Rack Type Design

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



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#### • 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.