# KM-506/530 SERIES

High speed, 1-needle, (needle feed) lock stitch sewing machine
with vertical edge trimmer and automatic thread trimmer

## KM - 506 / 530 - ■

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| Feeding type | |
|---|---|
| 506 | Bottom feed |
| 530 | Needle feed |

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

## ⊙ Specification

| Model | | KM-506-7S | KM-506 | KM-530-7S | KM-530 |
|---|---|---|---|---|---|
| Application [material] | | Medium | Medium | Medium | Medium |
| Max. sewing speed [spm] | | 4,000 | 4,000 | 4,000 | 4,000 |
| Stitch length [mm] | | 0~5 | 0~5 | 0~5 | 0~5 |
| Lift of the presser foot [mm] | Hand | 5.5 | 5.5 | 5.5 | 5.5 |
| | Knee | 14 | 14 | 14 | 14 |
| | Auto (Option) | 10 | 10 | 14 | 14 |
| Thread take up stroke [mm] | | 59.2 | 59.2 | 59.2 | 59.2 |
| Needle bar stroke [mm] | | 30.7 | 30.7 | 30.7 | 30.7 |
| Mes. Stroke [mm] | | 6.5 | 6.5 | 6.5 | 6.5 |
| Needle | | DBx1 #9~#18 | DBx1 #9~#18 | DBx1 #11~#18 | DBx1 #11~#18 |
| Hook | Drive type | Rotary | Rotary | Rotary | Rotary |
| | Position | Vertical | Vertical | Vertical | Vertical |
| Lubrication | | Auto | Auto | Auto | Auto |
| Thread roll | | ○ | ○ | ○ | ○ |
| Auto thread trimming | | ○ | - | ○ | - |
| 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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High speed, 1-needle, (needle feed) lock stitch sewing machine
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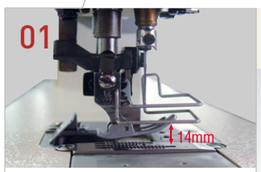
SunStar

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FEATURE

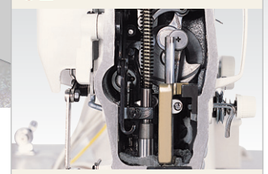
01




## 14mm lift of presser foot

14mm lift of presser foot, highest record among the sewing machines of similar grade

02



## Needle-feed system

Needle-feed system that the needle is perfectly accord with the timing of the feed dog is ideal to prevent puckering. Active needle movement has a great hold over the materials of sliding and thick, as it can be regulated largely than feed dog by 20%.
**(KM-530 Series)**

03



## Auto knee solenoid device

Auto knee lifter solenoid attached directly to the machine head in the back minimize loss of power. It is connected and disconnected easily. It also helps for better operation by providing enough space in the lower part of table. (Option)

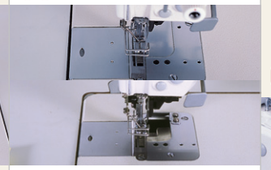
04



## Wiper mechanism

Productivity can be made great improvement by wiper mechanism for convenience of sewing, soft-touched back-tack button system and improved automize peripheral device such as advaced response and powerful back-tack solenoid which minimizes power loss.

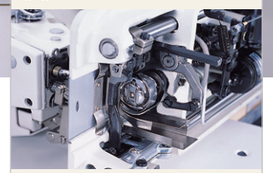
05



## An extensive chip outlet with maximum 29.5mm width

An extensive chip outlet with maximum 29.5mm width makes wide materials easy come forward and produce fast in any working circumstances.
Also you can use it as a general lock-stitch sewing machine by covering the outlet when you don't need cutting.

06



## Durablilty with light weight special material

Durability with light weight special material of needle bar frame has a special structure to prevent oil leakage.
**(KM-530 Series)**

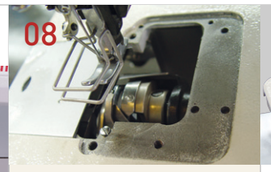
07



## Lift of presser foot

With design of mes activating mechanism put into interior of arm, general sewing and exchange of cutting sewing are easy as working environments is simple and it contains excellent lever system enough considered clutch movement of knife up and down.

08



## Powerful thread Cutting mechanism

The thread trimming mechanism equipped with moving mes and fixing mes made of special materials guarantees powerful thread trimming performance.
It is durable and is not easily worn away. The thread trimming power can be adjusted, and this capability shines most when handling heavy materials.
The remaining thread after trimming is minimized, leaving the shortest remaining thread among similar types of machine.
**(KM-506 Series)**

09



## Mass stucture of sharp cutting sapacity

Perfect and keen cutting ability for all kind of materials for cutting and with free adjustment to forward, back, left and right is satisfied various cutting out clothes condition and wide gauge condition. Also the structure of upper knife with special alloy materials and lower knife with needle plate attached tip of ultra light alloy that has an distinguished durability.

**KM-506/KM-530 series attached mes are ideal machines that can realize sewing and cutting simultaneously and easy to use with multi-functional and ultra modern design from the view of users.**

You can take a leading role to improve competitiveness through these series with two compound functions that have wide sewing correspondence and beautiful capacity stable as well as keen cutting ability.

## FORTUNA -5

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

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




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

## 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

| Model | Motor Spec. | Standard |
|---|---|---|
| S3M55-S | Straight Type | 550W / 3,000rpm / 0.18kgfm |
| S3M55-T | Taper Type | |