

SunStar

Your best choice,
SunStar's Automation World



SunStar
SUNSTAR MACHINERY CO., LTD.

Your best choice, SunStar's Automation World

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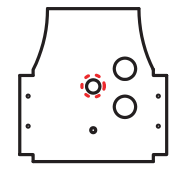
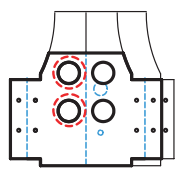

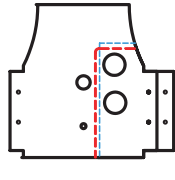
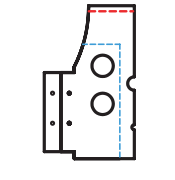
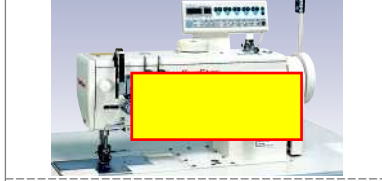
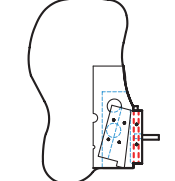
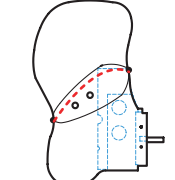

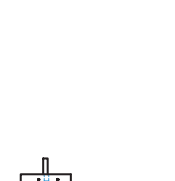

**Professional Sales / Technical
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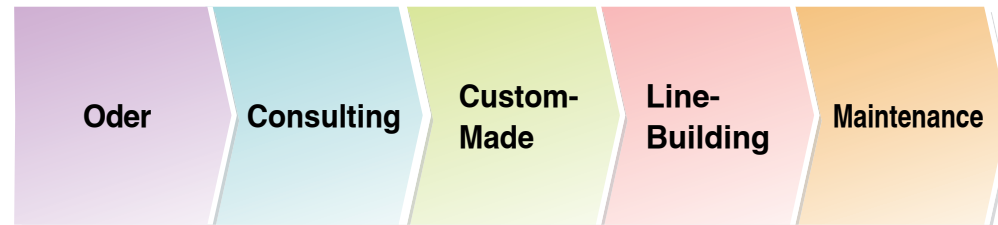
KM-1070BLX-7
KM-1072BLX-7
SPS/B-1811HS

SPS/A-5030H
SPS/CE-5050H
SPS/CE-8050H
SPS/CE-50200H

CE -> E

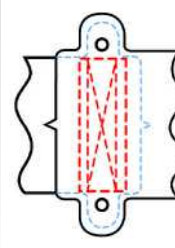


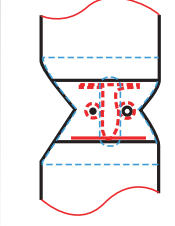


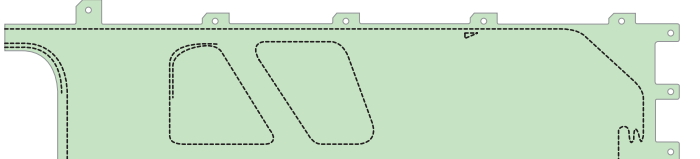
SunStar Air-Bag System

		1
SPS/B-2516HS (X:250mm / Y:160mm)		2
		3
SPS/A-5030H (X:500mm / Y:300mm)		4
		5
KM-1070BLX-7		6
		7
SPS/CE-5050H (X:500mm / Y:500mm)		
		
SPS/CE-8050H (X:800mm / Y:500mm)		

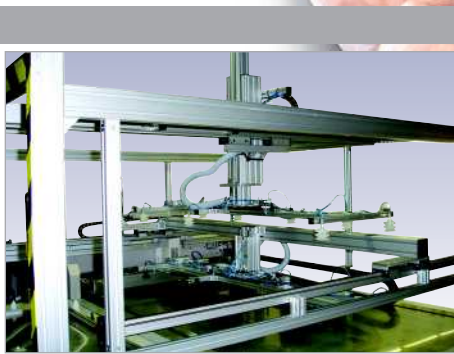
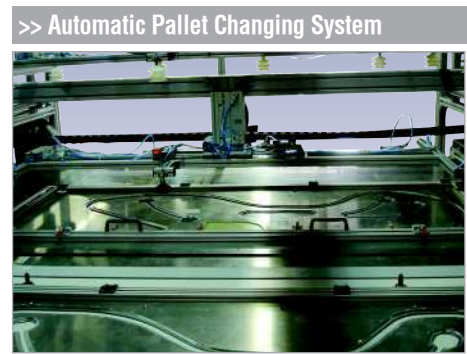
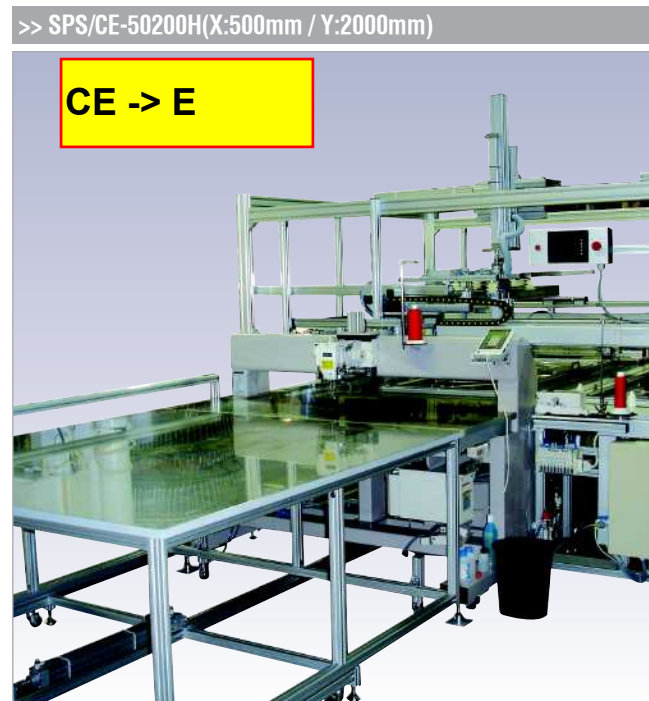


SunStar has an airbag-dedicated production system backed up by long-standing automation and production expertise. On top of that, the airbag business team responsible for design, production, sales, and A/S service guarantees the best optimized airbag production in line with the production environment and conditions of clients.

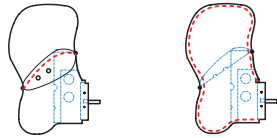


		
8	SPS/B-1811HS (X:180mm / Y:110mm)	
		
9	SPS/A-5030HS (X:500mm / Y:600mm)	
10		
	SPS/CE-50200H (X:500mm / Y:2000mm)	

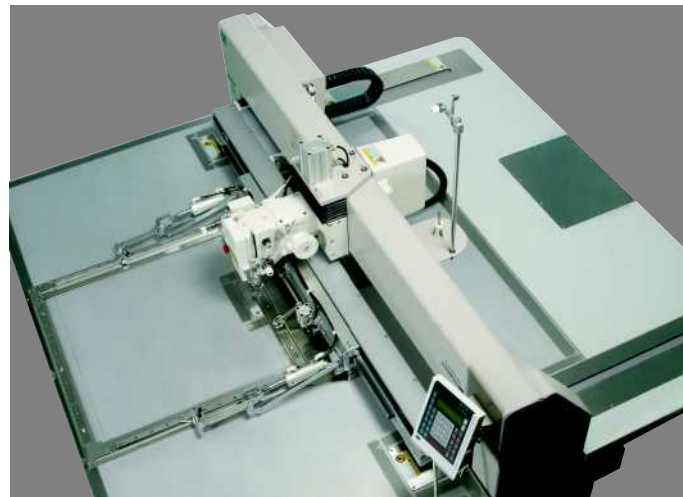
CE -> E



SPS/C-5050H, SPS/C-8050H



Independent Direct Drive, Electronically Controlled
Pattern Sewing Machine



>> Patent

The structure to provide unlimited sewing range by using the arm lift device and the independent up/down drive

>>

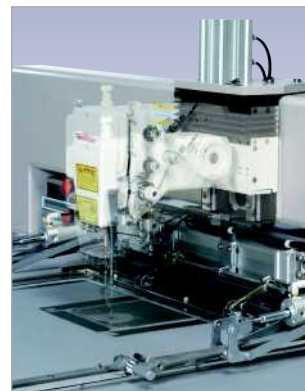
Power enhanced (X-M) has been

>> Bobbin Removable System

The pneumatic table open/close system was adopted for efficient bobbin replacement. This has enhanced convenience of work.

>> Structural Features

A. Ideal for Handling Heavy Materials



Easily applicable

It can be rearranged for consecutive handling of large materials with special purposes. It can easily host application devices and other functions as well.

B. Link with the Automobile Air Bag Sewing Dedicated System Head lifter

The air cushion-imbudded cylinder and the LM-guide for even weight distribution help lift arm in a stable manner. When dealing with heavy sewing materials, 50mm sewing range can be secured. It makes various types of works carried out easily.

C. Low Vibration / Silent Operation

Optimally designed for high-speed operation, the sewing machine produces low vibration and little noises during fast operation.

D. Ideal for Large-size Sewing Materials

The space under the machine body is expanded, so that even large-size sewing materials can be easily placed.

>> 3 Fold-Capacity Hook

The adoption of a 3Fold-Capacity Hook reduces the frequency of bobbin replacement, enhancing productivity.



>> Servo Step Motor-based Presser Foot Height Adjustment

Depending on the thickness of sewing fabric, it is possible to adjust the height of the presser foot. As such, excellent sewing quality is guaranteed despite the difference in fabric thickness.



>> Needle Cooler (NC)

It prevents the temperature of the needle from rising during sewing. This ensures stable sewing.



- LCD screen shows machine setting and program data status at a glance. This enables users to view sewing data input status and error messages including thread break in great convenience.
- The dialogue method was taken to make inputs, ensuring even beginners to easily operate the machine.

- Frequently used command keys are turned into icons and the icons are displayed on the input mode. This has shortened the time for input.
- Without a separate input tool, the machine operation and program setting can be conducted with OP Panel only. And since OP Panel is a handy device, users can operate OP Panel at the places where they find it the most convenient.

- Adoption of multi-ports
- Equipped with jig recognition system
- Able to adjust Y-parameter
- User's jump speed setting



>> Functional Features



Upper thread holder

It maintains same length of remaining upper thread for the first stitch after thread trimming regardless of thread type. It makes sewing work stable and reduces defect rate.



Hook lubrication device

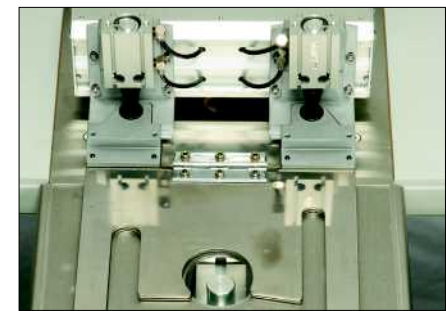
Air pressure-based hook lubrication device is used. It can remove foreign materials from hook and supply oil at the same time.



Y-rail guard

The Y-rail guard prevents foreign materials from entering the Y-rail, protecting Y-rail and Y-timing belt against damage.

>> Pneumatic Clamp Jig



Pneumatic method was used to attach the clamp jig. This revolves errors arising from wrong jig attachment and maximizes productivity.

>> Sensor-based Automatic Attachment



Upon the moment when a palette is inserted into the clamp, the attachment is automatically made by the sensor.

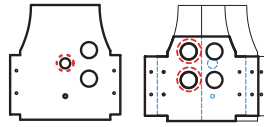
>> Specification

Max. Sewing Speed	2300
Stitch Length	0.1 ~ 12.7 mm
Needle	DP × 17, DP × 15
Hook	3Fold-Capacity Hook
Lift of the Presser Foot	22 mm
Lift of Feeding Frame	Max. 80 mm
No. of Patterns	Max. 691 Patterns
No. of Stitches	Max. 360,000 Stitches (Max. 20,000 Stitches / Pattern)
Main Motor	500W Servo Motor

1

2

SPS/B-2516HS



Electronically Controlled Pattern Sewing Machine



>> Feature

Fast Sewing

Heavy materials as well as thick materials are exactly sewed with high-speed sewing of 2,000spm under the stitch length of 3mm or less and the precise X-Y feeding system fed by 0.1mm per pulse.

Production Elevation

Due to equipping a double shuttle hook and bobbin, you don't need to frequently replace a bobbin upon use of heavy materials, therefore its productivity is improved.



Since the V-belt is removed, vibration and noise are reduced. So the machine offers comfortable working environment, high productivity and low electric power consumption.

>> Operation Panel

Easy and Simple Operation

- Since Operation Panel is movable, it's very comfortable for operator to make a design.
- It's very convenient since operator can check data input error and thread cut right away on the monitor.
- Even though you are an amateur, you can use the machine comfortably owing to the dialogue type Operation Panel.
- You can save data input time by using shortcut button for frequently using function.



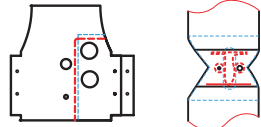
>> Specification

Max. Sewing Speed	2,000
Stitch Length	0.1 ~ 12.7 mm
Needle	DP x 17 #18
Hook	Large Shuttle Hook
Lift of the Presser Foot	20 mm
Lift of Feeding Frame	Max. 30 mm
No. of Patterns	Max. 691 Patterns
No. of Stitches	Max. 360,000 Stitches (Max. 20,000 Stitches / Pattern)
Sewing M/C Motor	Direct 500W AC Servo Motor

3

9

SPS/A-5030H (X:250mm / Y:160mm)



Electronically Controlled Pattern Sewing Machine



>> Feature

Fast Sewing

The sewing machine can operate at the maximum speed of 2,000rpm. Thorough study and analysis has been performed regarding all sewing-related motions to enable such fast sewing.

Optimal Sewing Scope

- The SPS series sewing machine can support the most optimized sewing scope (500(X)mm X 300(Y)mm) for bags, air bags and trouser rear pockets.



Large Shuttle Hook

- As a large shuttle hook and a large volume bobbin are used, it is unnecessary to frequently replace the bobbin when sewing heavy materials.

>> Powerful Torque



- As the 550W AC servo motor is used as a main shaft motor, maximum torque can be created. Thanks to this, powerful sewing is possible even when handling heavy materials.

>> Large Capacity

- The maximum number of needles input per pattern is 20,000. Therefore, any types of sewing patterns requiring multiple needles can be performed without problems.
- The embedded FDD can save up to 360,000 needles and 691 patterns in one 2HD floppy diskette. Therefore, the input and output of various designs is possible.

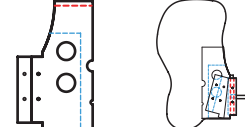
>> Specification

Max. Sewing Speed	2000
Stitch Length	0.1 ~ 12.7 mm
Needle	DP x 17 #18
Hook	Large Shuttle Hook
Lift of the Presser Foot	20 mm
Lift of Feeding Frame	Max. 30 mm
No. of Patterns	Max. 691 Patterns
No. of Stitches	Max. 360,000 Stitches (Max. 20,000 Stitches / Pattern)
Sewing M/C Motor	550W AC Servo Motor

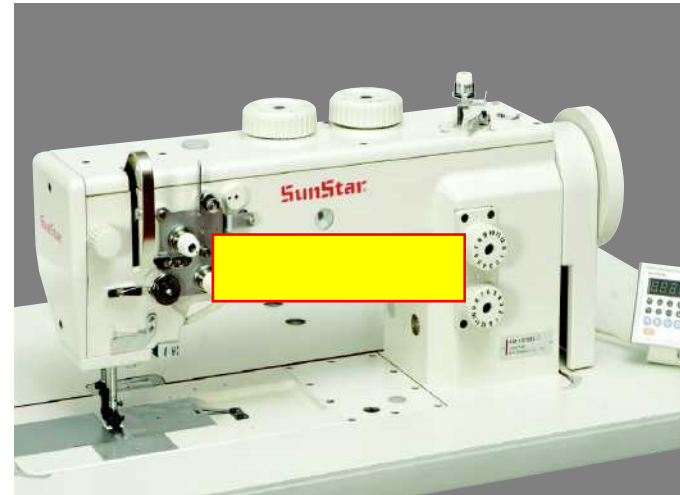
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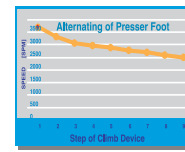
KM-1070BLX-7 / KM-1072BLX-7



Unison Feed Lock Stitch M/C



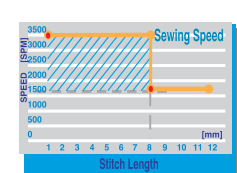
>> Adjusting Dial For Foot Presser Lifting



There are two dials to separately adjust the lift volume of different presser feet. When there is a temporary height difference of fabric, adjustment can be

easily made using the knee switch. Depending on the lift volume, sewing speed can be adjusted in the range of 2000 to 3200spm in nine steps. It is very user-friendly and enhances convenience of work.

>> Automatic Speed Control



It is possible to set different number of stitches for each of the two stitch dial. During sewing, make changes between the switches. Then the

stitch length can be changed as previously set. Sewing speed is automatically adjusted in line with changed conditions. Therefore, users can conveniently conduct sewing in a stable manner in the face of various work conditions.

>> Hook

2.5x hook can be attached the need to replace bobbins during work is minimized, enhancing productivity.

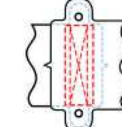


>> Specification

Max. Sewing Speed	3500
Stitch Length	0 ~ 12mm
Needle	DP x 35 #19
Hook	HORIZONTAL 2.5 Fold-Capacity Hook (Vertical Axis)
Lift of the Presser Foot	By Hand : 10mm / By Knee : 16mm (Auto : option)
Lubrication	Automatic Lubrication System

8

SPS/B-1811HS



Electronically Controlled Pattern Sewing Machine



>> Stable and Accurate Sewing



- By applying special seam mechanism on the parts like shuttle hook, the sewing area is enlarged and stable stitches is accomplished.
- By Excellent X-Y motion control system, you can get a smooth and accurate sewing results and a good quality for such sections like bias or spline.

>> Powerful Sewing Speed

By through study on the every mechanism related to sewing, we have finally realized marvelous sewing speed, 2000spm.



Best Performance

- This model adopts a big sized feed frame which is good for making a design like stick and pocket.
- Productivity can be increased by adopting large shuttle hook and double capacity bobbin. Therefore, you don't need to change bobbin.
- Realization of maximum capacity



- Direct Drive System, newly developed by SunStar, means the motor is attached to the machine head directly. As the system connects the AC Servo motor to the upper shaft using the coupling, the machine provides improved responsiveness and upgraded stopping accuracy so it is optimum for high quality sewing.

>> Specification

Max. Sewing Speed	2,000
Stitch Length	0.1 ~ 12.7 mm
Needle	DP x 17 #18
Hook	Large Shuttle Hook
Lift of the Presser Foot	20 mm
Lift of Feeding Frame	Max. 30 mm
No. of Patterns	Max. 691 Patterns
No. of Stitches	Max. 360,000 Stitches (Max. 20,000 Stitches / Pattern)
Motor	Direct 500W AC Servo Motor