SPS-HT SERIES

Independent direct drive, electronically controlled,
head turning, pattern sewing machine

BRIDGE TYPE

SPS / HT - 5050B1 - 01

SPS	/ HT	- 5050	B1	- 01
SunStar pattern series	Series: Head turning	Sewing area: 5050 500mm x 500mm; 8050 800mm x 500mm; 50100 500mm x 1,000mm; 80100 800mm x 1,000mm; 10050 1,000mm x 500mm; 10080 1,000mm x 800mm	Type: B1 Bridge type 1 (Frame X-Y feeding mech.); B2 Bridge type 2 (Frame X-Y feeding mech.)	Needles: 1 1-Needle; 2 2-Needles

Specification

Model		SPS/HT-5050B1	SPS/HT-8050B1	SPS/HT-50100B1	SPS/HT-80100B1	SPS/HT-10050B2	SPS/HT-10080B2
Application [material]		Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy
Max. sewing speed [spm]		2,200	2,200	2,200	2,200	2,200	2,200
Stitch length [mm]		0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7
Lift of the presser foot [mm]	Auto	22	22	22	22	22	22
Needle bar stroke [mm]		41.1	41.1	41.1	41.1	41.1	41.1
Air pressure [MPa]		0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5
Lift of the arm [mm]		50	50	50	50	50	50
Sewing area [mm]	X	500	800	500	800	1,000	1,000
	Y	500	500	1,000	1,000	500	800
No. of input patterns		999	999	999	999	999	999
No. of input stitches		30,000	30,000	30,000	30,000	30,000	30,000
Needle		DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5
Hook	Drive type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Position	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
	Capacity	x2.5	x2.5	x2.5	x2.5	x2.5	x2.5
Lubrication		Auto	Auto	Auto	Auto	Auto	Auto
Emergency stop		O	O	O	O	O	O
Wiper		O	O	O	O	O	O
Auto thread trimming		O	O	O	O	O	O
Feeding system		Servo motor	Servo motor	Servo motor	Servo motor	Servo motor	Servo motor
Motor		Servo motor	Servo motor	Servo motor	Servo motor	Servo motor	Servo motor

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

ARM TYPE

SPS / HT - 10050A - 01

SPS	/ HT	- 10050	A	- 01
SunStar pattern series	Series: Head turning	Sewing area [mm]: 10050 1,000 x 500; 10060 1,000 x 600; 15050 1,500 x 500; 15060 1,500 x 600; 20050 2,000 x 500; 20060 2,000 x 600	Type: Arm type	Needles: 1 1-Needle; 2 2-Needles

Specification

Model		SPS/HT-10050A	SPS/HT-10060A	SPS/HT-15050A	SPS/HT-15060A	SPS/HT-20050A	SPS/HT-20060A
Application [material]		Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy	Medium~Heavy
Max. sewing speed [spm]		2,000	2,000	2,000	2,000	2,000	2,000
Stitch length [mm]		0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7	0.05~12.7
Lift of the presser foot [mm]	Auto	22	22	22	22	22	22
Needle bar stroke [mm]		41.1	41.1	41.1	41.1	41.1	41.1
Air pressure [MPa]		0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5	0.44~0.5
Lift of the arm [mm]		50	50	50	50	50	50
Sewing area [mm]	X	1,000	1,000	1,500	1,500	2,000	2,000
	Y	500	600	500	600	500	600
No. of input patterns		999	999	999	999	999	999
No. of input stitches		30,000	30,000	30,000	30,000	30,000	30,000
Needle		DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5	DPx17, DPx5
Hook	Drive type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Position	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
	Capacity	x2.5	x2.5	x2.5	x2.5	x2.5	x2.5
Lubrication		Auto	Auto	Auto	Auto	Auto	Auto
Emergency stop		O	O	O	O	O	O
Wiper		O	O	O	O	O	O
Auto thread trimming		O	O	O	O	O	O
Feeding system		Servo motor	Servo motor	Servo motor	Servo motor	Servo motor	Servo motor
Motor		Servo motor	Servo motor	Servo motor	Servo motor	Servo motor	Servo motor

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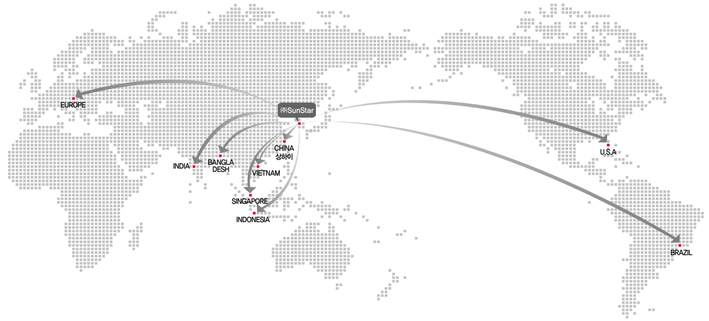
On all corners of the global village, the logos of SunStar are found



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FEATURES

01



Head Up / Down system

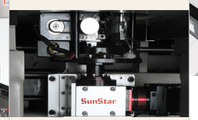
This makes various sewing works easily by securing the additional work area when sewing thick materials through the Head Up/Down.

02



Independent rotation structure of head & bed

The sophisticated sewing is possible because the independent rotation structure of Head & Bed makes perfect stitch possible to all the working section.



Accurate motion control of head & bed

The errors of the rotation according to the independent rotation of Head & Bed are minimized by controlling the rotation angle of 0.1°.

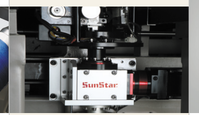
03



Presser foot fine-tuning mechanism

The stable sewing quality is realized by moving presser foot up and down with fine-tuning a presser foot using the motor.

04



Adoption of 2.5 times hook and automatic hook lubrication

Work productivity has increased by minimizing frequent bobbin exchange cycles when sewing large patterns.
Consumers' convenience and machine durability is increased with automatic hook lubrication.

05



Graphic operation panel

- **6.4-inch wide screen TFT Graphic LCD** : Very clear compared to the products of other companies.
- Fast operation by the Key Type.
- Operation and input function can be used all.
- Modification is possible by using Zoom in / Zoom out function during the editing process.

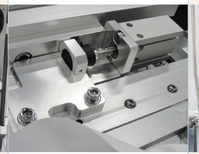
06



Rack-type control box

This is designed to check and replace easily when the error occurred by installing main drive and X-Y drive separately.

07



Pneumatic clamp holding device

The stable sewing is possible because the clamp is fixed perfectly with pneumatic character.

08



Upper thread sensor system

This minimizes the malfunction by detecting the upper thread cut and supply through the sensor.

09



The 3rd regulator

The realization of stable stitch is possible because the thread tension can be adjusted for the sewing quality of the specific work place.

10



Application of USB port

Easy data entry and mass pattern data input are available through applying the application of USB port.

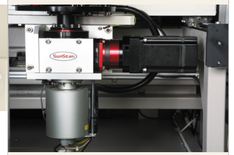
11



Emergency stop switch

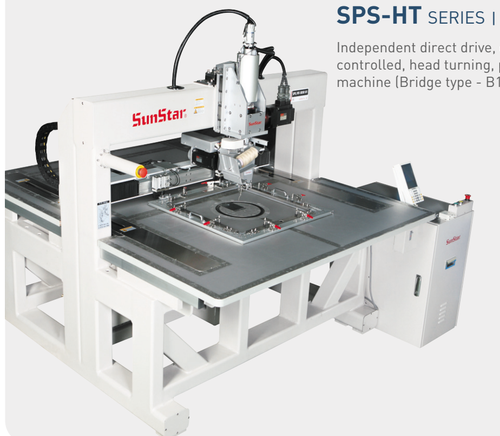
An emergency stop switch is installed on the optimal place within the work scope for the consumers' safety and the protection of the machine.

12



2kw A/C servo motor

The selection of the high capacity of 2kw A/C Servo motor can help the thick material sewing stable so it is possible to manage the various working environment.
(Arm type, Bridge B2 type)



SPS-HT SERIES | Bridge type - B1

Independent direct drive, electronically controlled, head turning, pattern sewing machine (Bridge type - B1)



SPS-HT SERIES | Bridge type - B2

Independent direct drive, electronically controlled, head turning, pattern sewing machine (Bridge type - B2)

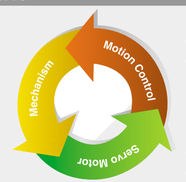


SPS-HT SERIES | Arm type

Independent direct drive, electronically controlled, head turning, pattern sewing machine (Arm type)

CNC HEAD TURNING

- Sewing machine
- Embroidering machine
- 3D Modeling
- Structural analysis

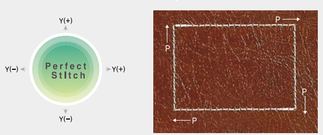


- Pattern sewing M/C
- Embroidering machine

- Fortuna series
- 1.5Kw A/C servo motor

PERFECT STITCH 1) Realizing perfect stitch in all sewing area of Head turning M/C

Head turning M/C



Pattern M/C

