

# SBF-20

Developed by a technical enhancement of the SBF-10  
 Ultimate convenience that anyone can use with ease  
 Optimized board and improved control method



Equipped with the thread column device for whipping (Column height: 2-10mm)

### ► Automatic Button Feeding System

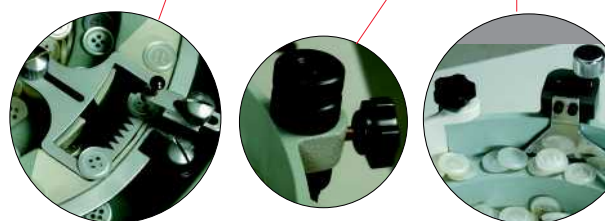
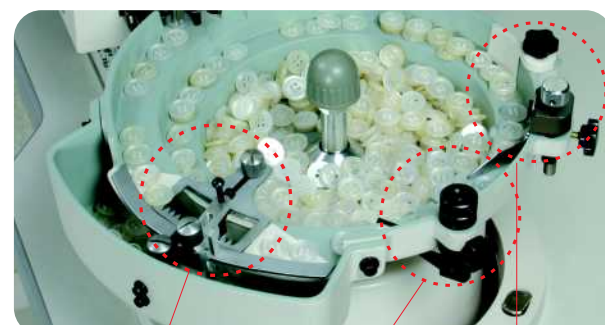
## S B F - 20

Advanced Sewing Type

Specification	
Supply & Sorting of Buttons	By Vibrator
Button Feed Mode	Automatic / Semi-Automatic / Manual
Button Size Control	By a Simple Button
Button Supply Mode	Horizontal Feeding System
Compressed Air	0.49MPa (5.0kgf/cm <sup>2</sup> )

### >> Button sorting device

The 3-layer button sorting device is installed on the button container. In any circumstances, buttons can be sorted out.



### >> Fast Embroidering



The button feed length and height can be adjusted simultaneously depending on button shapes. It has the most optimized structure in the world for the sewing work requiring frequent button change. The conveyor belt-type button feed device has been adopted to enhance convenience in button changes and completely eliminate restrictions in using different sizes of buttons.

### >> Operation box



The operation box is easy and convenient to operate, as the board has been optimized and the control methods have improved.

\* Attachment is available to other firm Maker's Button

## SPS / D-B1202 SPS / C-B1202

Model Name(Button Sewing Machine)	Series	Code	Button Size	Wiper Type
D	Direct Drive Type	01	Small Size Button(ø 8-ø 20)	Mechanical
	Belt Drive Type	02	Large size Button(ø 8-ø 32)	Mechanical
C		03	Small & Large size Button(ø 8-ø 32)	Solenoid

### Specification

Model	SPS/C(D)-B1202-01	SPS/C(D)-B1202-02	SPS/C(D)-B1202-03
Application	Small Size Button	Large Size Button	Small & Large Size Button
Wiper Type	Mechanical Wiper	Mechanical Wiper	Solenoid Wiper
Button Size	ø 8-ø 20	ø 8-ø 32	ø 8-ø 32
Sewing Area	X : 6.5mm, Y : 6.5mm		
Sewing Speed	Max. 2,500spm(Standard : 2,200 spm)		
Needle	DP x 17 #14		
Hook	Standard Shuttle Hook(Large Shuttle Hook : sub model)		
Lift of Button Clamp	Max. 13mm		
Trimming Device	Provided		
Memory	EEP-ROM		
No. of Patterns	Max. 99 Patterns (Standard 33 Patterns)		
No. of Stitches	10,000 Stitches		
Enlarging/Reducing	20-200%		
Main Motor	SPS/D Series : 500W Direct Drive AC Servo Motor		
Feeding System	SPS/C Series : 550W AC Servo Motor		
Power	Feeding by Stepping Pulse Motor Free Voltage (110V/220V)		

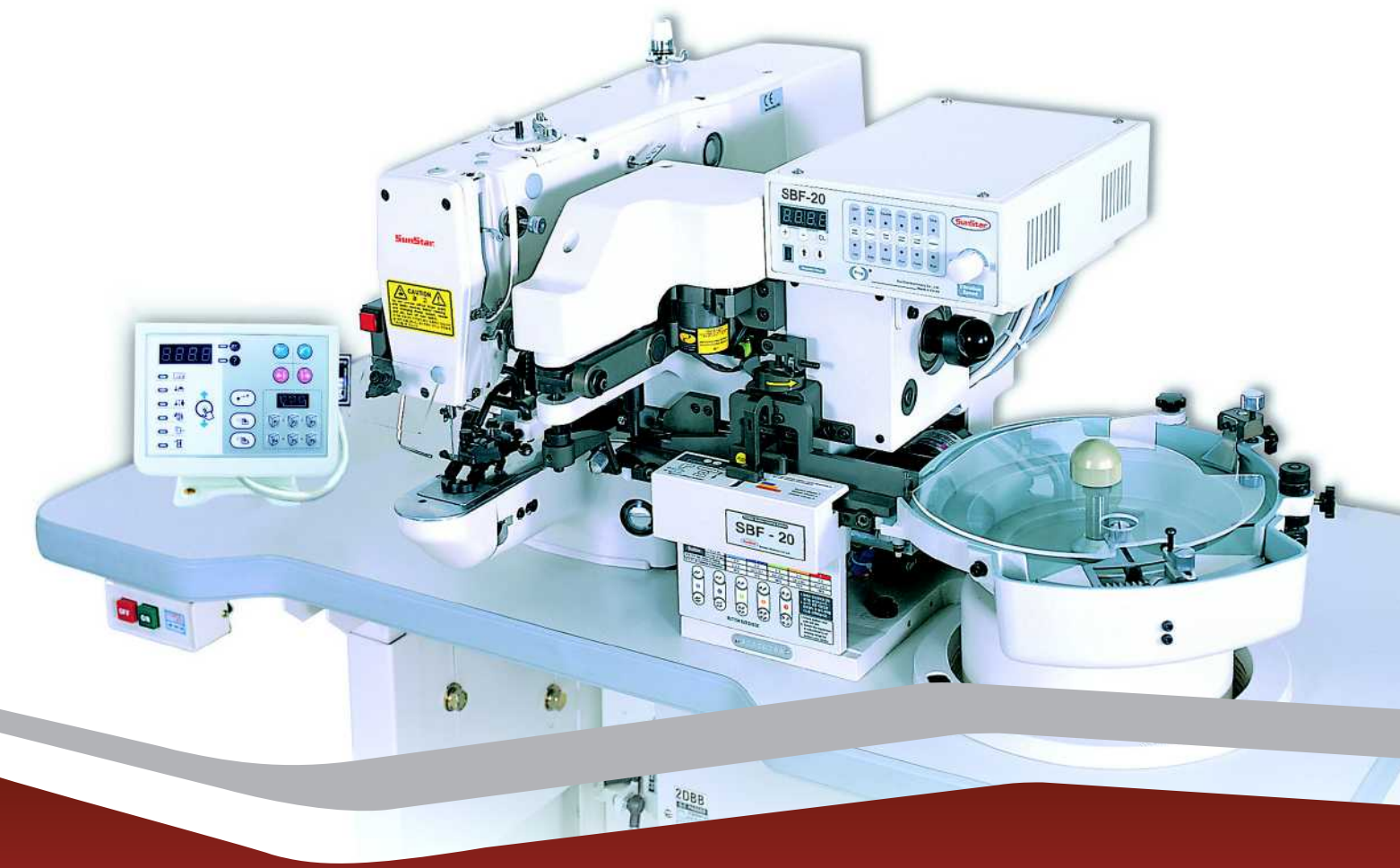
### Application

Small and large Button Sewing for Y-Shirt, Blouse, Working Uniform, Lady Clothes, Jacket, Coat (for Two, Three and Four Button Holes)

\* The specifications and appearance are subject to change without prior notice for performance improvement. Please read the user's manual thoroughly before using the product for proper and safe use.

Electronically Controlled Lock Stitch Button Sewing Machine with an Automatic Button Feeder

## SPS/C(D)-B1202 / SBF-20



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**SunStar**



# SPS/C(D) -B1202

SPS/C(D)-B1202 made by SunStar high technology!  
Realize more improved and developed automatic sewing system



## >> Various Patterns

This machine basically provides 33 patterns of electronic control. In comparison with mechanical button sewer types, which is exchanged by a cam upon change of patterns, and can reduce and extend the sewing range with simple operation to easily cope with various sewing conditions.

**Option : Button spacer (Ass'y)** It enhances convenience by making button sewing at the same distance possible.



## >> Excellent Productivity and High Quality

Realizing the Max. sewing speed with 2,500rpm, easily adjusting and changing button clamp, the button sewing M/C experts on the excellent performance not only small production of various types but also mass production. This machine is provided with high quality as the loosen thread is prevented by Backstitch sewing after done each sewing.

## >> Excellent Operation Box

- In the simply designed operation box, various functions, including pattern change, speed change, zoom-in/-out, and bobbin counter setup, are displayed in the icon form, so that all the functions can be used by touching the icon one.
- Up to 26 patterns can be registered in the memory. There are two function keys, which can contain up to 30 registered patterns. This function enables fast operation.
- The CF card enables a large number of patterns to be stored. (CF Card Board: Optional)  
(CF Card: User needs to purchase a card for use)



## Option

### >> Input Sewing Pattern Design Using of PDA/PC



Download Method  
1. IrDA Wireless Download  
2. RS-232C Serial Download



• Applicable Machine  
SPS-1306 Series SPS-2516 Series  
SPS-1811 Series SPS-5030 Series

It is Convenient for Creating Pattern Design Using of PDA or PC  
But, in Case of Wireless, it is Limited to PDA, and a User Needs Special Wireless Adaptor(Optional)

## Patent

The optical film for detecting synchro signals and the connected motor control device

## >> Direct Drive System Provides Excellent Responsiveness and Comfortable Working

- 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. (SPS/D-B1202)
- 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.
- In addition, the durability of the machine is greatly improved since there is no radial load from the V-belt.
- Direct drive system makes the installation job much easier and offers safe working environment.

## >> Easy Maintenance

This machine is minimized of mechanical noise by deleting feed cam and out-off system for emergency stop like old model, and facilitates its maintenance.



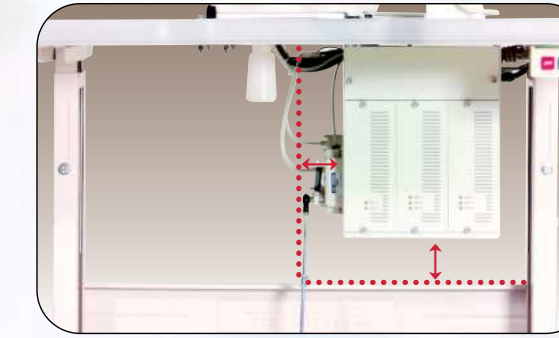
SPS / C(D) - B1202 - 03  
Equipped with the solenoid-type wiper



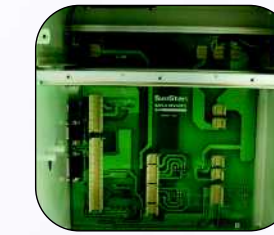
## >> Control Box Upgrade

Patent

- By lightening the control box, the working space under the table has been expanded.

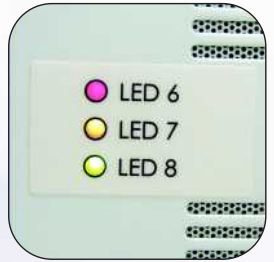
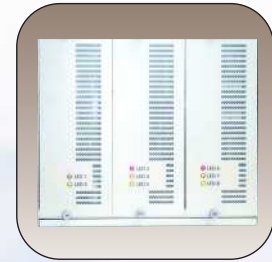


- As a seamless rack type, fewer breakdowns occur, and maintenance becomes easier.



## >> Fast Breakdown Check

The power on/off LED enables fast checking of the causes of troubles and A/S services.



## >> Pattern List

Pattern	Pattern	No. of Threads	Sewing Area		Pattern	Pattern	No. of Threads	Sewing Area	
			X (mm)	Y (mm)				X (mm)	Y (mm)
1		6-6	3.4	3.4	18		6	3.4	0
2	⊗	8-8	3.4	3.4	19	⊗	8	3.4	0
3		10-10	3.4	3.4	20		10	3.4	0
4		12-12	3.4	3.4	21		12	3.4	0
5*		6-6	3.4	3.4	22		16	3.4	0
6*	⊗	8-8	3.4	3.4	23	⊗	6	0	3.4
7*		10-10	3.4	3.4	24		10	0	3.4
8*		12-12	3.4	3.4	25		12	0	3.4
9	⊗	6-6	3.4	3.4	26	⊗	6-6	3.4	3.4
10		8-8	3.4	3.4	27		10-10	3.4	3.4
11		10-10	3.4	3.4	28		6-6	3.4	3.4
12	⊗	6-6	3.4	3.4	29*	⊗	10-10	3.4	3.4
13		8-8	3.4	3.4	30*		5-5-5	2.9	2.5
14		10-10	3.4	3.4	31		8-8-8	2.9	2.5
15*	⊗	6-6	3.4	3.4	32	⊗	5-5-5	2.9	2.5
16*		8-8	3.4	3.4	33		8-8-8	2.9	2.5
17*		10-10	3.4	3.4					

Note) 1. Standard Sewing lengths (X and Y) given above are given assuming that scale is 100%  
2. In case of the pattern of " \* " mark of Sewing Pattern No., a thread is trimmed after finish of first sewing to remove a line through sewing patterns.  
3. In case of SPS/C(D)-B1202-01 and 02, press the pedal once more after finish of first sewing, or continuously press and release the pedal until second sewing begins.  
4. In case of SPS/C(D)-1222-03, just one time pressing of the pedal will do.