

B-1E Series

Computer-controlled, High-speed, Buttonholing Machine



Features

- The machine adopts a semi-dry head
- Equipped with active tension (electronic thread tension control mechanism)
- Color LCD touch panel is standard equipment



B-1E1790S

B-1E Series

SPECIFICATIONS

Model name	B-1E1790S
Application	Standard
Lubrication	Semi-dry head (Hook: minute-quantity lubrication)
Max. sewing speed	4,200sti/min*
Size of cloth cutting knife	6.4~31.7mm (1/4"~1-1/4")
Buttonhole length	Max. 41mm (Standard-equipped presser foot: Max.25mm)
Needle thread tension	Active tension (electronic thread tension control system)
Needle (at the time of delivery)	DPx5 (#11) #11~#14
Lift of the work clamp	14mm (17mm when the reverse-rotation needle-up function is used)
Auto-lifter	Provided as standard (Stepping motor)
Needle throwing system	Stepping motor
Cloth feeding system	Stepping motor
Cloth cutting knife system	Stepping motor
Number of standard patterns	30 patterns
Patterns in memory	500 patterns
Machine head drive system	Compact AC servomotor (direct-drive system)
Lubrication oil	Sewing machine oil #10 (ISO VG10)
Power supply / Power requirement	Single-phase 220V
Power consumption	590 VA
Weight	Machine head 54.5kg, Control box 6.5kg, Operation panel 0.65kg

*sti/min is the abbreviation for "stitches per minute"

WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

Machine head

Drive type	Code	Buttonhole size	Code	Application	Code
Electronic drive	E	Standard (Max.25mm)	0	Standard	S

B 1 E 1 7 9 0 □ - □

Destination	Code
General export	A
Turkey (for RoHS)	H

Control box

C B 1 0 □ - □

Power supply	Code	Destination	Code
Single-phase 220V	A	General export	A
		India	F
		Turkey (for RoHS)	H

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* Specifications and appearance are subject to change without prior notice for improvement.
 * Read the instruction manual before putting the machine into service to ensure safety.
 * This catalogue prints with environment-friendly soyink on recycle paper.
 * Paper from responsible sources FSC™ C001712

B-1E Series



The B-1E Series is a direct drive type with a maximum sewing speed to 4,200sti/min

B-1E Series

A large color LCD touch panel for touch operation

The larger screen of the color LCD touch panel displays sewing data such as the stitch shape and stitch number. These allow intuitive operation of the touch panel.

USB port

The color LCD touch panel is provided as standard with a USB port. This means that the sewing machine data management and software updating can be carried out with ease by means of the USB port.



As many as 30 different buttonholing shapes are provided as standard

As many as 500 different sewing patterns can be stored in memory.

The sewing patterns that are stored in memory can be selected as desired through the operation panel.

Active tension (electronic thread tension control mechanism)

The needle thread tension can be separately set for the parallel section and bartacking section of the buttonhole seam according to various sewing conditions (thread, material, sewing speed, etc.) given, and those setting data can be stored in memory. The needle thread tension can be changed over at the parallel and bartacking section of the buttonhole seam without fail, thereby producing beautifully-finished buttonhole stitch shape. The needle thread tension to be employed at the beginning and end of sewing can be set individually. This helps prevent slip-off of the thread at the beginning of sewing and unravel of the finished seam.

Main functions driven electrically

The electric-driven mechanism has been adopted for the work clamp foot lifter, needle / bobbin thread trimmers, work clamp foot pressure regulator, cloth trimming knife and thread tension controllers, thereby ensuring stable sewing that produces beautiful seams with less operating noise.

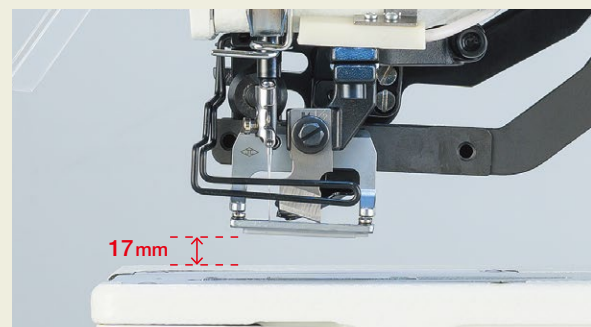
Oil stains are eliminated



Thanks to our advanced dry-head technology, the frame (needle bar and thread take-up) no longer requires lubrication. This prevents the material from being stained with lubricating oil.

Lift of the work clamp

The work clamp foot lifting height can be set as desired. The work clamp foot can be lifted as high as to 17 mm by the use of the reverse-rotation needle-up function.
























LED light

The LED light is located on the underside of the arm jaw. It reduces operator fatigue and improves work efficiency. It is provided as standard for all models of the B-1E Series.



Sewing Shape List

01	 Square	02	 Round	03	 Radial Square	04	 Radial	05	 Radial Straight Bar-tacking
06	 Radial Taper Bar-tacking	07	 Eyelet Square	08	 Eyelet Radial	09	 Eyelet Straight Bar-tacking	10	 Eyelet Taper Bar-tacking
11	 Semi-lunar	12	 Round Square	13	 Semi-lunar Square	14	 Semi-lunar Straight Bar-tacking	15	 Semi-lunar Taper Bar-tacking
16	 Eyelet Semi-lunar	17	 Eyelet Round	18	 Square Radial	19	 Square Semi-lunar	20	 Square Round
21	 Square Straight Bar-tacking	22	 Square Taper Bar-tacking	23	 Radial Semi-lunar	24	 Radial Round	25	 Semi-lunar Radial
26	 Semi-lunar Round	27	 Bar-tacking	28	 Ba-tacking Right Cut	29	 Ba-tacking Left Cut	30	 Bar-tacking Center Cut