



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* (Factory default: 3,000sti/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)	DP×5 (#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 consumption	Single-phase 220V
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

B1E1790

Drive type	Code
Electronic drive	E

Buttonhole size	Code
Standard (Max.25mm)	0

Application	Code
Standard	S

Control box

CB10

Power supply	Code
Single-phase 220V	A

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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

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.

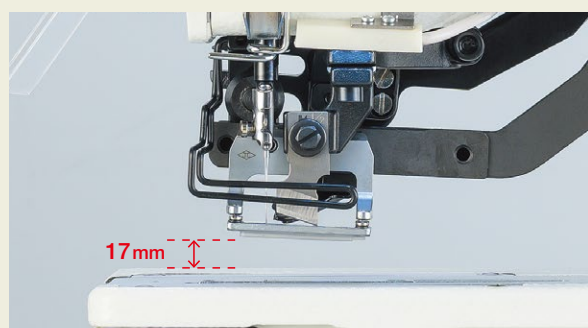
Oil stains are eliminated



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.



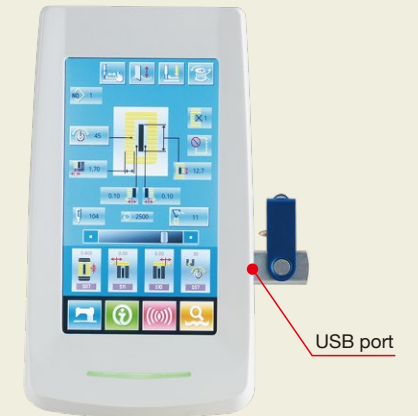
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A large color LCD touch panel for touch operation

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.

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 Bar-tacking Left Cut	30 Bar-tacking Center Cut