

HIKARI® Innovative Electronic Straight Buttonholer

Feel the innovation and efficiency

HBH 1790 S or K Computer-Controlled High Speed Straight Buttonholer Machine

The HIKARI innovative electronic button holer machine is an universal solution for knitted and woven fabrics, optimized for the European requirements: small and middle sized orders, hard to sew fabrics, and high quality production.



OUTSTANDING TECHNOLOGICAL FLEXIBILITY WHAT MAKES HIKARI INNOVATIVE
STRAIGHT BUTTONHOLER UNIQUE IN THE MARKET

- High quality stable sewing on max. 4200 RPM
- Electronic top thread tension device for higher precision sewing
- Up to 3 basting stitch cycles for high quality button holes



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ELECTRONIC THREAD TENSION ADJUSTMENT FOR HIGHER QUALITY SEWS



HIKARI HBH 1790 electronic straight button holer is equipped with a solenoid operated top thread tension device. This makes it possible to adjust the thread tension of all the sections of the button hole separately. Later on, as the base tensions had been adjusted for the sides, the top and the bottom segment of the buttonhole, the adjusted values can be changed together to find the best setup for different threads and materials. This feature offers the highest flexibility during button holing of highly stretchable, or low elongation fabrics.

BASTING STICH CYCLES FOR BALANCED BUTTON HOLE LOOK

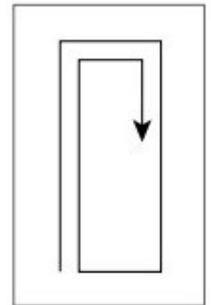
The HIKARI electronic button holer is equipped with a set of advanced features, like multiple basting stitch sewing, which makes the look and the shape of the button hole more balanced if the buttonhole is stitched opposite wise as it has been sewn.



Without basting stitch

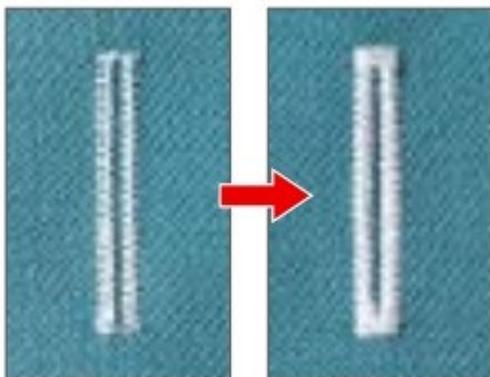


With basting stitch



Basting stitch

BASTING STICH LINES FOR BALANCED BUTTON HOLE LOOK



State of first-round stitch

Finished state of double stitching

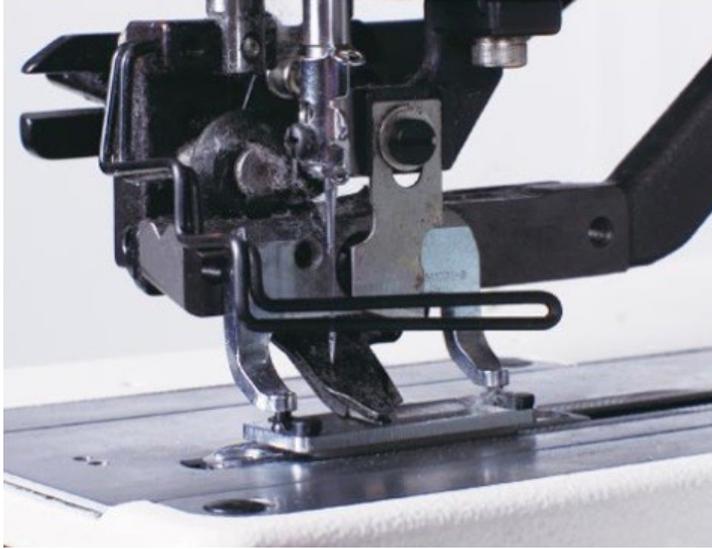
The HIKARI HBH1790 straight button holer machine's software is equipped with the option of double stitching the button hole. This means that the seam of the button hole is stitched two times to get a finer finish, and lower elongation on the buttonhole. The first cycle is stitched according to the original program, and the second cycle is stitched without the bartack sections at the two ends of the button hole. This presents the extremely high finish of the two bartack sections. As far as the pitch, and width of the stitches during the second cycle can be adjusted separately, a highly perfect uniform look can be created during serial production.



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MULTIPLE CUT SYSTEM FOR DIFFERENT BUTTON HOLE SIZES

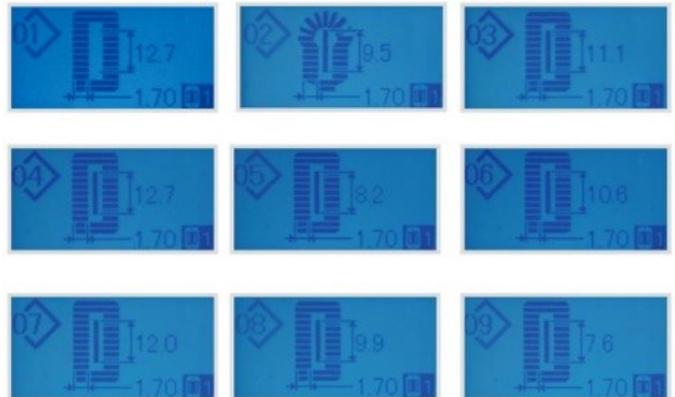


The HIKARI electronic straight button holer is equipped with a flexible cutting device, to cut as long as maximum 120 mm long buttonhole with just one knife mounted. The length of the mounted cutting knife is set up in the controller of the machine, and the computer calculates the number of cuts need to cover the length of the adjusted buttonhole. HIKARI supplies different length of knives for the machine from 6.4 mm to 31.8 mm in case a single cut is required by the technical specification.

FULL FEATURED USER – FRIENDLY CONTROL PANEL

The HIKARI HBH1790 is equipped with full computerized, easy to use, user friendly control panel. The functions are grouped, and distributed according to the needs of the operator. The position of the functions are clearly separated, which helps the operator to use it faster to save time, and increase the efficiency. Some of the functions can be selected with push buttons, and the adjustments can be made easily according to the icons on the control panel.

The control panel is equipped with a dual color LCD screen, to display icons and text, so that parameter settings or images, can be understand easily when the adjustment of the sewing patterns or operation is needed. The sewing speed of the machine can be adjusted easily with sliding the switch on the left vertical side of the control panel.



CENTRAL LUBRICATION SYSTEM



The machine is equipped with a central lubrication system, which offers as minimum oil leaks on the garments as possible. The oil is placed in a central reserve, and has been pumped to the contact place on small diameter pipelines and wicks. The lubrication monitoring gauge is installed on the side of the machine which is easy to observe.



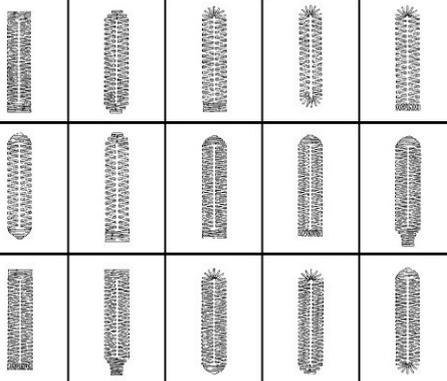
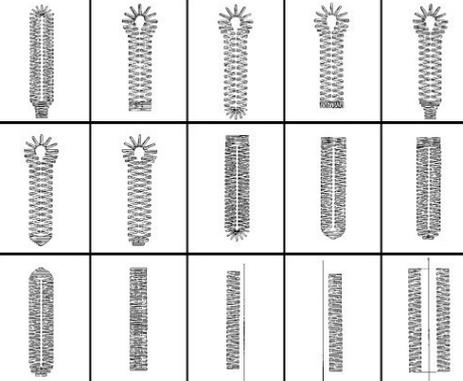
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What does it mean to use HIKARI machines in production?

1. It is possible to build a homogenous plant with HIKARI, because we can supply a wide variety of machines and special machines for the sewing room.
2. The strength of HIKARI is the strong development of the most applicable machines in the sewing room. Therefore, the biggest efficiency, the highest saving on electricity bills, and the lowest maintenance costs is provided in case of using the HIKARI machines:
 - Innovative Single Needle Lock Stitch Machines: H9180 series, H8800D series
 - Innovative Overlock Machines: HX6800TA/AK series

TECHNICAL SPECIFICATIONS

Model	HBH1790-S	HBH1790-K													
Application	Mainly woven fabrics, women's and men's clothing such as shirts, blouses, trousers, work wear, etc	Mainly knitted fabrics, women's and men's wear, underwear, sweaters, cardigans, jersey, etc.													
Button hole types															
Button hole width	Standard width: max. 5mm, Optional with conversion: max. 10mm														
Button hole length	Standard length max. 41mm, Optional with conversion: max 120mm														
Knife size	Standard: 12.7 mm Available options: 6.4, up to 31.8 mm														
Max. Sewing speed	Max. 4200														
Needle type	DPX5 (Nm 75-90)														
Rotary hook	DP type														
Presser foot size	Type1: 4x25mm, Type2: 5x35mm, Type3: 5x41mm, Type4: Definable														
Presser foot height	14 mm (during reverse rotation needle up function is used: 17 mm)														
Number of factory defined programs	30														
Number of operator defined programs	99 (cycle program available)														
Pedal mode	Single pedal mode, Option with conversion: double pedal mode														
Drive mode	AC servo drive 550W														
Power supply	Single phase 110V/220V, Three phase: 200V/380V, 1000W														
Lubricant	High speed spindle oil														

