LBH-1790A Series
Computer-controlled, High-speed, Buttonholing Machine

The LBH-1790A Series follows the world's highest sewing speed and dry-head mechanism.

LBH-1790AS
(Table stand is optionally available.)

LBH-1790A Series
The thread tension and all drive mechanisms are electronically controlled.

LBH-1796A
Buttonholing machine with a 220mm work clamp which supports the simplified indexer function has been added to the family of buttonholing sewing machines.

LBH-1796AS
(table stand and parts for indexer are optionally available)
Excellent operability
by Digitization

Higher productivity
- The maximum sewing speed is 4,200 sti/min., and the jump speed is 200 mm/s. The cycle time has been further reduced for continuous sewing.

Cycle sewing and continuous sewing.
- Cycle sewing: Twenty different programs can be registered, and as many as 30 different patterns can be stored in one program.
- Continuous sewing: The machine is able to continuously sew two or more different patterns without requiring the work clamp foot to be lifted. As may as 20 programs can be registered, and six different patterns can be stored in one program. (Related parts need to be exchanged for optional ones.)

All drive mechanisms are electronically controlled
- Electronic control of the material feed mechanism, needle feed mechanism, needle thread trimming mechanism, bobbin thread trimming mechanism, cloth trimming mechanism, presser lifter mechanism and other mechanisms has been achieved.
- 81 adjustment values are digitalized to enable the operator to set and store those values on the operation panel.

Many functions of the pedal.
- The machine is provided as standard with a newly-developed auto-lifter driven by a stepping motor. This helps reduce the operator’s fatigue. As for the pedal, one-pedal and two-pedal models can both be changed over and the intermediate stop, which facilitates positioning of the sewing product, can be specified.
- The work clamp foot lift can be set as desired. The reverse-rotation needle-up function offers a maximum work clamp foot lift of 17mm.

Operator-friendly environment
- Operation with reduced noise is ensured by the adoption of the direct-drive motor.
- The luminance of the LED light is adjustable and is located on the underside of the arm jaw. It is provided as standard for all models of the LBH-1790A Series.

Excellent seam quality
by Digitization

JUKI’s unique active tension (Electronic thread tension control system).
- Needle thread tension for sewing parallel and bartacking sections of buttonholes can be separately controlled through the operation panel and stored in memory according to various sewing conditions (e.g., type of thread, type of material and sewing speed).
- The machine is able to change the needle thread tensions at the parallel and bartacking sections of the buttonhole, to produce a beautiful buttonhole shape. This capability helps greatly in preventing thread breakage.
- Needle thread tension is activated at the beginning and end of sewing. This prevents unthreading of the needle thread, and thread fraying that is likely to occur at the beginning of sewing.
- Thread tension for bartacking stitching can be specified separately.

Basting stitch mechanism is effective for the production of beautiful buttonholes.
- The basting stitch is effective on elastic materials such as knits. Basting stitch: Since the needle thread is tucked in without fail, it will never jut out of the buttonhole seams. Basting stitch can be sewn by nine rounds.

Sewing settings can be easily changed.
- For double stitching, the bartacking section is skipped and only the parallel sections are sewn twice. This prevents any excessively tight finishes in the bartacking section of the buttonhole seams.
- A second changeover between pull stitching and whip stitch, threading of bobbin, as well as the bobbin thread tension need to be changed.

LED light
(Provided as standard)

Auxiliary table
(standard accessory)
**Improved maintainability**

The machine eliminates oil stains on the sewing product.

- Thanks to our advanced dry-head technology, no lubrication is required except for the hook section.
- The machine can be completely changed into a dry-head machine by replacing the hook with an optional non-lubricated hook.
- In this case, the maximum sewing speed will be 3,300 sti/min

**Adjustment of the hook oil quantity**

- Only a minute-quantity of clean oil is fed to the hook section from the oil tank.
- The oil tank is made of shatter proof material, thereby preventing tank-related troubles such as breakage by some mishap.
- Oil can be easily added to the hook oil quantity tank with an oiler.

**LBH-1795A**

Computer-controlled, High-speed, Buttonholing Machine (120mm presser type)

- The knife supports sewing lengths of 41mm at the maximum.
- Since the LBH-1795AS is provided as standard with the 120 mm presser, it is capable of sewing 120mm long buttonholes. The LBH-1795AS is capable of sewing long buttonholes such as belt holes in car seats. In addition, it is applicable to the sewing of buttonholes in men's shirts (continuous sewing of two buttonholes and the use of two units of sewing machines), etc.

**LBH-1796A**

Computer-controlled, High-speed, Buttonholing Machine (220mm presser type)

- The maximum sewing speed of the LBH-1796A is 4,200 sti/min (equivalent to the maximum sewing speed of the LBH-1790A).
- The jump speed has been increased.

- (LBH-1790A: Max 200 mm/s  LBH-1796A: Max 540 mm/s)

*Cycle time during continuous sewing has been improved to increase productivity.*

**Increased productivity is ensured!**

When the optionally-available indexer mechanism is installed on the LBH-1796B, the operator can attend to two units of this model of sewing machine at one time or can use the LX-1903B button sewing machine together with the LBH-1796A, thereby not only further increasing productivity, but also ensuring consistent product quality due to the production capability without requiring the operator to have any special skills.

**Simplified buttonholing indexer**

- As with the general-purpose indexer, the simplified indexer for the LBH-1796A permits easy addition to and change of the production line, thereby contributing to saved installation space. The table area of the LBH-1796A is 56% less than that of the AC-172N-1790.

**Space-saving**

- With the optional table stand and parts for indexer are optionally available.

**Option <Parts for simplified indexer>**

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
<tr>
<td>1</td>
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<td>4015979</td>
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<td>2</td>
<td>A set of a laser marking lamp and an LED marking lamp</td>
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**Productivity**

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The machine is provided as standard with as many as 31 stitch patterns for buttonholing. It is able to store 99 different patterns in its memory, which can be selected as desired from the operation panel.

**OPERATION PANEL**

**STANDARD LIQUID CRYSTAL PANEL (NEW)**

- USB Port is provided as standard on the standard panel
- The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. The main body of the sewing machine is provided as standard with a USB port. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), etc.) by means of a USB thumb device and a card reader.
- All kinds of data can be entered on or selected from the operation panel.
- The panel display supports 14 different languages.

**OPTION**

- Foot pedal for standing work
- Foot pedal [Part No. GPK570010B0]
- Pedal switch conversion cable asm. [Part No. 40003493]
Max. 4,200sti/min, Normal 3,600sti/min  When the non-lubricated hook (optional) is used: 3,300sti/min

34.6mm  0.05mm

Active tension (electronic thread tension control system)
Automatically computed from the size of the buttonhole and stitch pitch

DP×5 (#11J) #11J~#14J
DP type, full-rotary hook  Non-lubricated hook (optional)

Provided as standard (stepping motor type)

Stepping motor
Intermittent feed by stepping motor

31 patterns
Max. 99 patterns

Built-in the machine head

Compact AC servomotor (direct-drive system)
3-phase 200~240V/250VA

Lubrication
Only the hook section needs a minute-quantity lubrication.
* No lubrication is required when the non-lubricated hook (optional) is used.

Lubricating oil
Hook: JUKI New Defrix Oil No.1 (equivalent to ISO VG7)
Machine head (include motor) 55kg, Control box 6kg

"sti/min" stands for "Stitches per Minute"
The special-specification part is available on a special order. Contact our branch or office in your area.

CompactFlash or CFA specification compatible media.
"CompactFlash" is a registered trademark of SanDisk Corporation, U.S.A.

Other company names and product names/brand names are trademarks or registered trademarks of the respective companies.

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

Machine head  Control box

LBH179□AS  MC602□S

Model  Code  Type  Code
Standard  0  Standard  S
120mm type  5
220mm type  6

Power supply  Code
3-phase  200~240V  E
Single-phase  220~240V  K
CE 220~240V  (not provided with power switch)  N

To order, please contact your nearest JUKI distributor.

The LBH-1790A Series is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment

- The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.
- This sewing machine reduces power consumption by 27% as compared with the conventional models.

For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html

The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment.
Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.

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.

JUKI ECO PRODUCTS

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