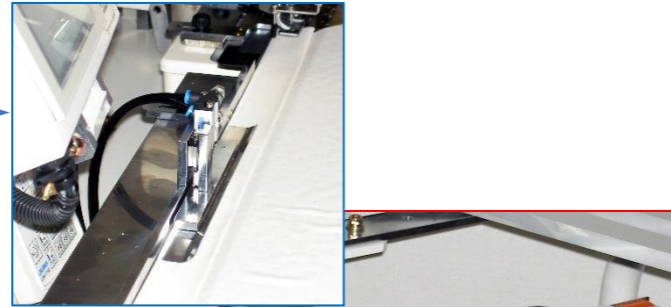


Optional Accessories

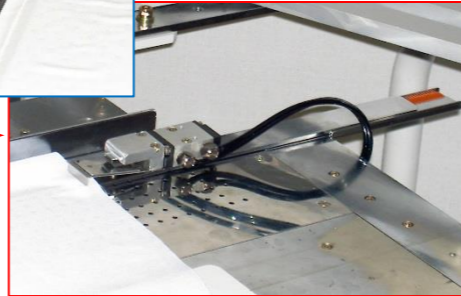
★ Front Edge Presser

This presser tool is helpful in cases where the front edge section does not stay on the vacuum plate because of harder/ thicker materials and/or no iron pressing.



★ Fabric Clamper

Depending on the type of materials, you can add this clamp tool (one for each left and right end) to securely fix materials on the vacuum plate.



Specifications

★ Sewing Head	JUKI LBH-1790AN Direct-Drive Motor type
★ Sewing Speed	Max: 4,200 rpm, normal: 3,600 rpm
★ Needles	DP x 5 # 11J-14J
★ Feeding System	Pulse Motor (0.1 mm step)
★ Max. Feeding Length	720 mm
★ Feeding Directions	for GENT: L→R, for LADY: R→L (also good for finished products)
★ # of Pattern Memory	20 (expandable)
★ Seam Margin	5~20 mm <i>see Fig1-A</i>
★ Distance to the Top Buttonhole	Limitless (min. 20 mm) <i>see Fig1-B</i>
★ Interval of Buttonholes	Limitless <i>see Fig1-C</i>
★ Buttonhole Length	12.7 mm (standard) 15.9 mm (max.) <i>see Fig1-D</i>
★ # of Buttonholes	Limitless (0~30, with intervals of 20 mm)
★ Table Height	950 mm
★ Power Supply	200 V / AC 950 VA
★ Air Supply	0.5 MPa, 10 nl/min.
★ Dimensions	W 1,750 x D 600 x H 1,200 mm
★ Weight	216 kg

Daily Output

2,400 pcs. of front body fabric / 8h  
 ★ 2 sets by 1 operator, 5 buttonholes each with 100 mm interval

Configurations

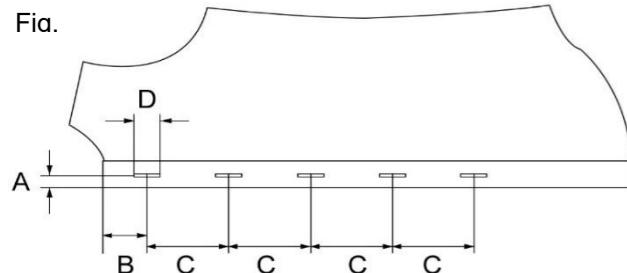
- ★ Perfect Sync. System: Sewing Head and Vacuum Plate
- ★ Direct-Drive Sewing Head
- ★ Powerful Vacuum Plate
- ★ For GENT/For LADY Mode Sensor
- ★ Stacker
- ★ Stacker Turn-Over Shaft
- ★ LCD Touchscreen
- ★ Bobbin Counter
- ★ Air Duster Gun

Bundled Software "FP Data7"



Connecting a PC with this software installed and YUHO automatic sewing machines by a USB cable enable users to report the current status of user's YUHO machine quickly and precisely. This procedure makes YUHO easier to provide quick and appropriate customer support remotely.

In the interests of product improvement, appearance and/or specifications are subject to change without prior notice.



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Just place the material, and the machine sews buttonholes,

U-4204-BH is an indexing machine that quickly and automatically sets buttonholes at accurate positions by moving front-body panels using a vacuum plate.

You only need to lay the materials on the table and complete the buttonholes instantly.

Intelligent and perfect synchronization between the sewing head and vacuum plate secures high-quality buttonhole sewing.



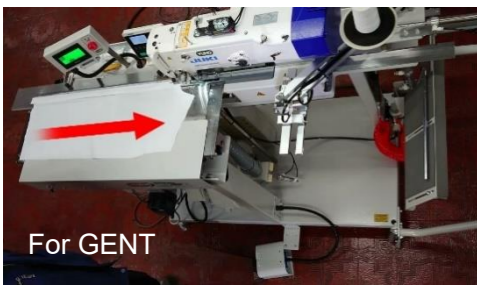


## Buttonhole Feeder

### Model U-4204-BH



#### JUKI LBH-1790AN Onboard



For GENT

U-4204-BH comes with the Direct-Drive Motor type sewing head (max. 4,200 rpm sewing speed). Its electronic thread tension control

system automatically maintains the optimum needle thread tension, resulting in beautiful buttonhole shapes. The remaining length of thread after trimming is always kept to a minimum, and the thread-fray-prevention mechanism prevents the finished seam from loosening. Its dry-head system does not require lubrication (except the hook section), preventing oil stains on the fabrics.

#### Simply Lay the Front Body Panel on the Table



For LADY

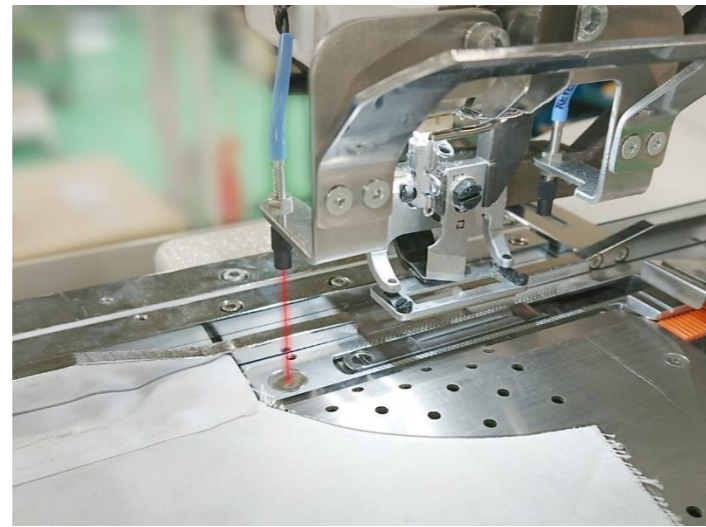
Just put front body panels on the table. Operators can avoid paying strict attention to the positioning of left or right. This feature enables higher

productivity. 2 x photoelectric sensors (for GENT and for LADY) detect the upper end of the front body panel, and the computer calculates the distance from the upper end and top button, buttonhole intervals, q'ty of buttonholes precisely and automatically. Feeder transports the materials for GENT from left to right and the materials for LADY from right to left. Materials are piled up tidily on

the stacker automatically.

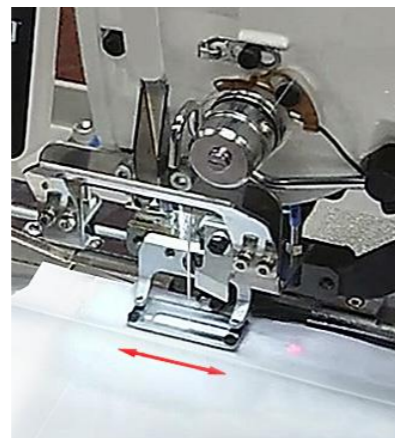
Alternatively, you can place the material and set the position of the top buttonhole just under the machine presser, and the machine will start button sewing immediately.

#### Flexible Positioning of Top Buttonhole



This machine detects the upper edge of the front body panel using photoelectric sensors and feeds it with a vacuum plate without clamps. Consequently, it has the flexibility to change the position of the top buttonhole, which the predecessor models did not have. This feature is especially suitable for shirts for the Japanese market, and it is called the "Cool-Biz" style.

#### Perfect Sync. of Sewing Head and Vacuum Plate



The vacuum plate securely holds fabrics and precisely transports them (0.1 mm step). It perfectly synchronizes the movement of the sewing head during buttonholing. No extra adjustment work is required, even when the shape or size of the buttonhole is changed.

#### Powerful Vacuum Plate

Its powerful vacuum plate steadily holds fabrics even with wrinkles or with a naturally curved front edge because of stitches. Thanks to the pulse motor, the vacuum plate moves (in 0.1 mm increments) realizing the high precision of buttonhole positioning. It performs the perfect feeding even with heavier fabrics or finished products.

#### Thread Breakage Detector (T.B.D.)

T.B.D. detects the thread breakage and stops the machine

immediately. Operators can step back or step forward before restarting and continuing the operation. This feature helps to reduce the waste of time and extra work.

#### Freedom of Buttonhole Intervals



Up to 20 patterns of buttonhole intervals can be stored as Regular Pitch (equal intervals). In the case of Irregular Pitch (unequal intervals), users can differentiate each interval as they like by inputting each distance one by one on the touchscreen. Up to 20 patterns can be stored as Irregular Pitch.



RUN screen for Irregular Pitch

#### Dual Mode Stacker (for GENT, for LADY)



The stacker mechanism on the right side of the machine piles up the front body panels of both GENT and LADY. (GENT: top is on the right, LADY: top is on the left) Thanks to its stacker turn-over shaft, materials are piled up tidily. Operators can instantly switch the stacker mode (for GENT /for LADY) without a complicated procedure.

#### LCD Touchscreen Promises Intuitive Operation

Various parameters, such as distance from the upper end to the top button, button intervals, # of buttons, bobbin counter, pattern #, etc., are displayed at once on the LCD touchscreen, allowing users to change settings with easy operations.



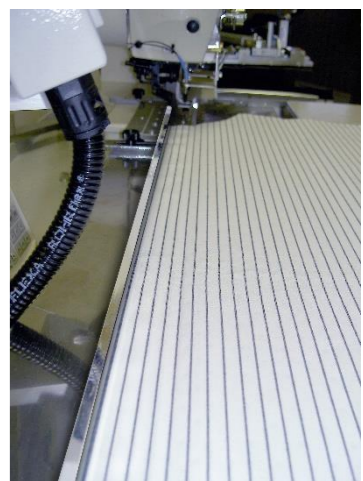
Other parameters, such as GENT/LADY, machine head on/off, vacuum on/off, stacker on/off, etc., can be instantly selected. The above-mentioned patterns can be stored up to 20. A red alert screen is displayed when the bobbin thread becomes zero. Emergency Stop and Restart at thread breakage, activating the maintenance mode, etc... everything is easy to understand thanks to LCD.

#### Margins between Front Edge and Buttonholes



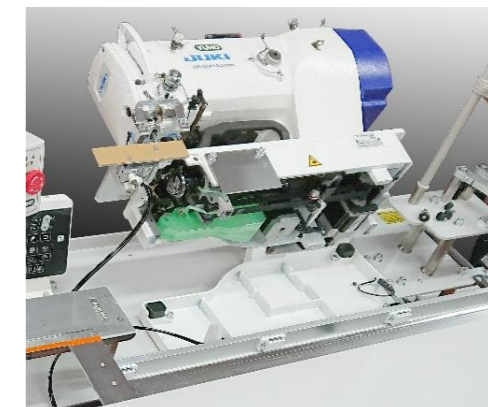
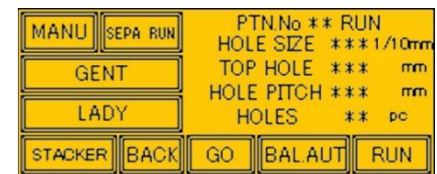
The margin from the front edge to the buttonholes can be set within 5 mm ~ 20 mm. The positions of left and right guide rulers (for GENT/

LADY) can be adjusted instantly just by loosening/tightening thumb screws. The position of the scale is also adjustable to precisely fix the guide rulers at the correct positions.



#### Meticulously Designed for Maintenance

To make a correction of the failed buttonholes, users can enter the CORRECTION MODE on the LCD touchscreen. Press **GO** or **BACK**, to let the NG buttonhole position under the needle, then fix the specific buttonholes.



In the maintenance or periodic check of sewing head, a part of top cover of the table is detachable without using any tool, and users can tilt the sewing head instantly.