

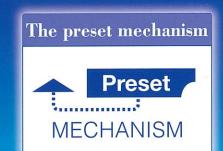
AC-172N-1790

High-speed, Computer-controlled Buttonholing Indexer



O"Applicability to vertical stripe patterns has been improved."

The newly-developed sub-clamp mechanism prevents slippage of the material to enable accurate and consistent buttonholing.



O"Increased productivity achieved by the preset mechanism."



AC-172N-1790

Technology that consistent quality helps achieve

New facility

Sub-clamp device which enhances applicability of the sewing machine to vertical-strip patterns.

The sewing machine comes with a newly-developed mechanism which prevents slippage of the material at the time of its delivery from the preset board to the sewing machine. This helps increase applicability of the sewing machine to buttonhole vertical-striped garments.

The independent sub-clamp mechanism of the carriage unit on the sewing machine head securely clamp the material upon delivery of the material from the preset board to the sewing machine, thereby preventing the material from slipping out of position. As a result, the sewing machine is allowed to achieve accurate buttonholing of top-center plaits with consistency.

High-performance indexer mechanism

A stepping motor controls material feed amounts in increments of 0.1 mm to feed materials with both consistency and accuracy. The machine is able to sew 1 to 20 buttonholes and stores 20 different stitching

The sewing machine is provided as standard with a facility that moves the carriage unit synchronously with the operation of the sewing machine during sewing, thereby enabling accurate and unfailing feed of the material while preventing material slack.

The sewing machine comes with the LBH-1790 head, which is highly evaluated in terms of functions and performance.

The AC-172N-1790 is equipped with the highly-evaluated LBH-1790 as its machine head. The needle thread tension is changed over without fail at bank parts and bartacking parts of a buttonhole by means of the highest sewing speed of 4,200 sti/min and the unique active tension (electronic thread tension control mechanism), thereby achieving beautifulshaped buttonholes.

In addition, fastening stitches prevent the seams from unraveling at the end of sewing. It is also possible to program other stitching styles such as double buttonholing.

The adjusting keys which are frequently operated by the operator for adjusting buttonholing are arranged in a similar configuration to the standard panel for the LBH-1790. The operator is therefore able to directly adjust the buttonholing to achieve improved operability.





LBH-1790

Sub-clamp device

Provided as standard

STACKER

It is a device for automatically stacking garment bodies after having been buttonholed. (Space-saving type stacker built inside the main body)

The stacker, which clamps even narrow garment bodies without fail, increases the efficiency of the material taking/stacking operation, thereby helping further increase productivity.

This switch is operated with the knee to actuate the sewing machine (sub-clamp device). The knee switch can be turned on by the operator with his/her knee while he/she still holds a garment body on the sewing machine with both hands. As a result, the operator is able to place the material securely on the sewing machine to reduce the time required for accurate positioning of the material. Needless to say, a hand switch is also

In addition, if the operator turns on the switch after having placed the material on the sewing machine, the sub-clamp device will automatically bring the subsequent material to the sewing position after the completion of buttonholing of the current material to allow the sewing machine to immediately start the next buttonholing. This function works effectively, especially in cases where the operator is operating two or more sewing machines or is carrying out other work simultaneously.



LASER MARKER

Options

LASER MARKER

This is the laser marker that confirms vertical stripe patterns of the top-center plait. The laser marker assists the operator with the garment placement work to enable accurate positioning of a vertically-striped garment body, thereby helping improve the finished product quality and increase productivity.

CLOTH EDGE SENSOR

The cloth edge sensor is a device for detecting the material edge (the collar side). Even if the operator fails to correctly position the material on the sewing machine, the cloth edge sensor detects the material edge (the collar side) to keep the distance from the upper edge of the material to the first buttonhole at a preset

SUPPORT CLAMP

The support clamp is a device for clamping the edge (collar side) of a garment body. By clamping the edge of a garment body with this device, the operator is able to use both hands as desired. When this device is used in combination with the laser marker, ease and accuracy of placement of patterned materials on the sewing machine can be increased



Oil stains on the sewing product are eliminated.

Thanks to our advanced dry-head technology, no lubrication is required expect for the hook section. This eliminates oil stains on the sewing product. Only a minute-quantity of clean oil is fed to the hook section from the oil tank. The machine can be completely changed into a dry-head machine by replacing the hook with an optional non-lubricated hook.

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AC-172N-1790





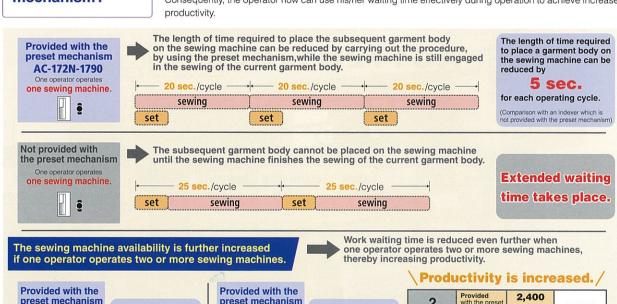
The preset mechanism helps increase productivity!



What is the preset mechanism?

It is the facility that allows placement of the material to be sewn next on the preset board while the sewing machine is engaged in the sewing of the current material.

Since the automatic buttonholing indexer carries out buttonholing successively, the operator conventionally has had waiting time while the sewing machine is in operation (for buttonholing). JUKI's preset mechanism allows the operator to place the subsequent garment body to be sewn on the preset board while the sewing machine is still engaged in the sewing of the current garment body (so-called overlapping work). Consequently, the operator now can use his/her waiting time effectively during operation to achieve increased



One operator finishes the buttonholing of 2 pcs. in one 20 sec. cycle. 2 sewing machines.

10 sec./pc.

Condition: Time required for placement of a garment body on the sewing machine: 5 sec. Time required for buttonholing: 20 sec. (five buttonholes spaced at 100 mm intervals with 113 stitches) Travel between sewing machines in the case of one operator operating two or more sewing machines:

AC-172N-1790 One operator operate 3 sewing machines. One operator finishes the buttonholing of 3 pcs. in one 21 sec. cycle.

7 sec./pc.

	2	with the preset mechanism	2,400 pcs.	+480
	sewing machines	Not provided with the preset mechanism	1,920 pcs.	pcs.
Name of Street or other Persons and Street or other Person	3	Provided with the preset mechanism	3,429 pcs.	+549
	sewing machines	Not provided with the preset	2,880	pcs.

Difference in productivity between the sewing machine provided with the preset mechanism and one without it

(Allowance of 20 %) per 8 hours

JUKI ECO PRODUCTS

AC-172N-1790

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The AC-172N-1790 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.
- The AC-172N-1790 uses more common parts than the conventional models. In addition, recycling rate is also
- As compared with the conventional model, the AC-172N-1790 reduces noise by 1.5dB.

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. The 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.

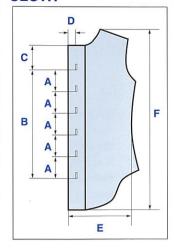
SPECIFICATIONS

Model name	AC-172N-1790		
Machine head	LBH-1790(exclusive machine head for AC)		
Max. sewing speed	4,200 sti/min (normal:3,600 sti/min)		
Stitch length	Max.25mm		
Cloth trimming length	6.4~19.1mm(1/4~3/4 inch)		
Lift of the work clamp foot	Max.14mm		
Needle	DPx5 #11J~#14J (Needle installed at the time of delivery #11J)		
Feed system	Stepping motor Right (for men's garments) or left (for ladies' garments) 0.1mm 20 patterns		
Feed direction			
Unit of feed amount			
Number of patterns that can be input			
Number of buttonholes	1∼20 pcs.		
Power requirement	3-phase 200~240V, Single-phase 220~240V		
Power consumption	1,000VA 0.5MPa(5kg/cm²)240NI/min		
Compressed air and air consumption			
Dimensions	1,910(W) x 850(D) x 920mm(H) (Up to the preset table surface)		
Total weight	300kg		
Presetting device	Provided as standard		
Stacker	Provided as standard		
Pair stacking	Possible		

^{*&}quot;sti/min" stands for "Stitches per Minute."

MAPPLICATIONS SIZE OF CLOTH

A	Buttonhole interval	0~610mmm (0.1mm steps)
В	Total feeding amount	610mm
С	Distance from the top end of the garment body to the first buttonhole	MAX.140mm
D	Distance from the front side end of the garment body to the buttonhole	7~21mm
E F	Applicable size of the garment body to be sewn	Width:220~420mm Length:400~880mm



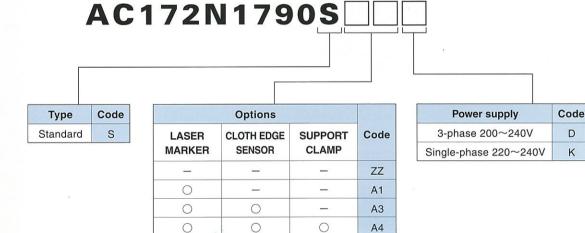
Non-lubricated hook (option)

Name of part	Part No.
RP hook (asm.)	40006345
RP bobbin case	40006349
Hook sleeve (asm.)	13729603
Screws	SS8660612TP(4pcs.)

*By the installation of nonlubricated hook. the machine is changed to be a fully dry-head machine. (In this case, the maximum sewing speed will be 3,300sti/min)

WHEN YOU PLACE ORDERS

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



●To order, please contact your nearest JUKI distributor.









JUKI CORPORATION HEAD OFFICE



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INDUSTRIAL SEWING MACHINE DIV. * 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.

