

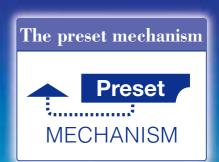
AC-172N-1790

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

The AC-172N-1790 is a high-speed, computer-controlled buttonholing indexer which achieves higher productivity and consistent buttonholing of top-center plaits.



The preset mechanism

helps increase productivity!

Preset MECHANISM 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 parment body (so-called overlapping work). Consequently, the operator now can use his/her waiting time effectively during operation to achieve increased

Provided with the preset mechanism AC-172N-1790 one sewing machine.

The length of time required to place the subsequent garment body on the sewing machine can be reduced by carrying out the procedure, by using the preset mechanism, while the sewing machine is still engaged in the sewing of the current garment body.

20 sec./cycle sec./cycle 20 sec./cycle sewing sewing sewing set set

The length of time required to place a garment body on the sewing machine can be reduced by

5 sec.

for each operating cycle.

(Comparison with an indexer which is not provided with the preset mechanism)

Not provided with the preset mechanism

The subsequent garment body cannot be placed on the sewing machine until the sewing machine finishes the sewing of the current garment body.

cycle -/cycle sewing

Extended waiting time takes place.

The sewing machine availability is further increased if one operator operates two or more sewing machines.

Work waiting time is reduced even further when one operator operates two or more sewing machines, thereby increasing productivity.

Provided with the preset mechanism AC-172N-1790 2 sewing machines.

9

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

10 sec./pc.

Provided with the preset mechanism AC-172N-1790 3 sewing machines.



One operator finishes the buttonholing of 3 pcs. in

7 sec./pc.

Productivity is increased.,

2	Provided with the preset mechanism	2,400 pcs.	+480	
sewing machines	Not provided with the preset	provided 1,920		
	with the preset mechanism	pcs.		
3 sewing machines	Provided	3,429		
	with the preset mechanism	pcs.	+549	
	Not provided with the preset mechanism	2,880 pcs.	pcs.	

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

JUKI ECO PRODUCTS

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.

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 patterns in its memory.

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.

Indexer operation panel

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 oper



Operation Panel



LBH-1790

Sub-clamp device

Provided as standard

STACKER

It is a device for automatically stacking garment bodies after having be stacker built inside the main body)
The stacker, which clamps even narrow garment be

taking/stacking operation, thereby helping further increase productivity

This switch is operated with the knee to actuate the sewing machine (sub-clamp device). **KNEE SWITCH**

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 provided.

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



MARKING LIGHT

STACKER / KNEE SWITCH

Options

This is the marking light that confirms vertical stripe patterns center plait. The marking light 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 distance.

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 marking light, ease and accuracy of placement of patterned materials on the sewing machine can be increased.



Oil stains on the sewing product are eliminated.

High-speed, Computer-controlled Buttonholing Indexe

AC-172N-1790

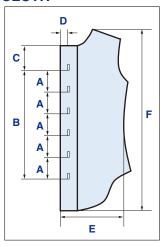


SPECIFICATIONS

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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)			
Sewing dimension	Standard : Width 4mm x length 25mm (Max. Width 6mm x length 120mm by repiacing parts)			
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			
Feed direction	Right (for men's garments) or left (for ladies' garments)			
Unit of feed amount	0.1mm			
Number of patterns that can be input	20 patterns			
Number of buttonholes	1~20 pcs.			
Power requirement	3-phase 200~240V, Single-phase 220~240V			
Power consumption	1,000VA			
Compressed air and air consumption	0.5MPa (5kg/cm²) 240NI/min			
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			

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		
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,

WHEN YOU PLACE ORDERS

"sti/min" stands for "Stitches per Minute."

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



		_				
Туре	Code		Options			
Standard		I	MARKING LIGHT	CLOTH EDGE SENSOR	SUPPORT	Code
				OZ.10011	02 7 tttti	
			_	_	_	ZZ
			0	_	_	A1
			0	0	_	А3
			0	0	0	A4

Power supply	Code	
3-phase 200~240V	D	
Single-phase 220~240V	K	

●To order, please contact your nearest JUKI distributor.





JUKI CORPORATION HEAD OFFICE



SEWING MACHINERY BUSINESS UNIT

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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.

the machine is changed to be a fully dry-head machine (In this case, the maximum sewing speed will be 3,300 sti/min)