



 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.

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.

High-speed, Computer-controlled Buttonholing Indexer AC-172N-1790

The AC-172N-1790 is the newly-developed next-generation buttonholing indexer, which comes with the highly evaluated high-speed machine head LBH-1790 and is provided as standard with the preset mechanism to increase productivity. In addition, the new facility called sub-clamp mechanism helps achieve both accurate and consistent buttonholing quality.

> Applicability to vertical stripe patterns has been improved.

The preset mechanism helps increase productivity!

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.

MECHANISM What is the preset mechanism?

Preset

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 productivity.

Provided with the preset mechanism AC-172N-1790 One operator operates one sewing machine.	on the sewing by using the p	y machine can be red breset mechanism,wi of the current garme le	· · ·	the procedure	aged aged aged aged aged aged aged aged	to place a gar the sewing ma reduced by 5 S for each opera (Comparison with ar	ating cycle.
Not provided with the preset mechanism One operator operates one sewing machine.	until the sewin	ng machine finishes	nnot be placed on the the sewing of the curr 25 sec./cycle		body.		d waiting es place.
AC-1/2N-1/90 bu			Work waiting one operator thereby increa	operates two asing produc Produc 2 sewing machines	or more tivity.	sewing mac is incre t 2,400 pcs.	hines,
	ec. (five buttonholes spaced at 10	ing machine: 5 sec. 00 mm intervals with 113 stitches)		3 sewing machines	ne provided	t 2,880 pcs.	+ 549 pcs. wance of 20 %)
JUKI ECO PRO			co-friendly product wl	·			DUCTS

JUKI ECO PRODUCTS

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 increased.

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 voluntarity 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 operability.

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.

KNEE SWITCH

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 provided.

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.

Options

MARKING LIGHT

This is the marking light that confirms vertical stripe patterns of the top-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 Indexer

AC-172N-1790



Sub-clamp device





Operation Panel



STACKER / KNEE SWITCH



MARKING LIGHT



SUPPORT CLAMP

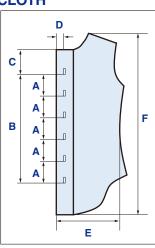


SPECIFICATIONS

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)	
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/cm ²)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	

APPLICATIONS 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.)
	· · · · · · · · · · · · · · · · · · ·

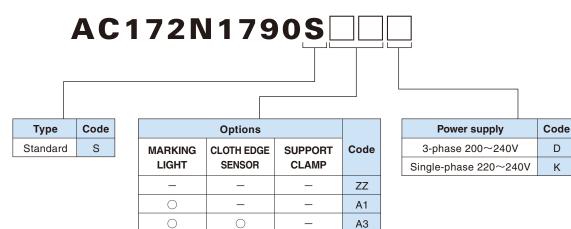
*By the installation of nonlubricated hook,

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

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

WHEN YOU PLACE ORDERS

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



 \bigcirc

 \bigcirc

To order, please contact your nearest JUKI distributor.



A4

JUKI CORPORATION HEAD OFFICE

Jux Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems: (1) The development of products and engineering processes

maintenance services for data entry systemi: (1) The development of products and engineering processes that are safe to the environment (2) Green procurement and green purchasing (3) Exercision (1) State (1) State (1) State (1) (4) Executors saving (reduction of papers purchased, etc.) (5) Reduction and recycling of wave (6) Improvement of logistics efficiency (modal shift and improvement of packsging, packing, etc.)



2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN PHONE : (81) 42-357-2254 FAX : (81) 42-357-2274 http://www.juki.com

 \bigcirc

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.