■ SPECIFICATIONS

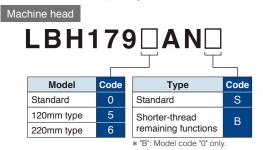
Model name	LBH-1790ANB	LBH-1790AN	LBH-1795AN	LBH-1796AN				
Sewing speed	Max. 4,200sti/min, Normal 3,600sti/min When the non-lubricated hook (optional) is used: 3,300sti/min							
Needle bar stroke	34.6mm							
Size of cloth cutting knife	6.4~22.2mm (1/4"~7/8")	6.4~22.2mm (1/4"~7/8") 6.4~31.8mm (1/4"~1-1/4") 6.4~2						
Bartacking width	Max. 4.0mm	Max. 5.0mm (with special-spe	Max. 5.0mm					
Buttonhole length	Max. 25mm	Max. 41mm (optional: 70mm, 120mm)	Max. 120mm	Max. 220mm				
Precision of needle throwing mechanism		0.05	imm					
Needle thread tension		Active tension (electronic thr	read tension control system)					
Number of stitches	Auto	omatically computed from the size	ze of the buttonhole and stitch	pitch				
Needle (at the time of delivery)		DP×5 (#11J)) #11J~#14J					
Hook		DP type, full-rotary hook No	on-lubricated hook (optional)					
Lift of the work clamp	14mm (17mm when the reverse-rotation needle-up function is used) Parallel lifting							
Auto-lifter		Provided as standard	(stepping motor type)					
Needle throwing system	Stepping motor							
Cloth feeding system		Intermittent feed b	by stepping motor					
Cloth cutting knife system		Steppin	g motor					
Number of standard patterns		31 pa	tterns					
Number of patterns that can be input		Max. 99	patterns					
Bobbin thread winder		Built-in the m	achine head					
Machine head drive system		Compact AC servomote	or (direct-drive system)					
Power requirement / Power consumption		3-phase 200~	~240V/250VA					
Lubrication	* No li	Only the hook section needs ubrication is required when the r		s used.				
Lubricating oil		Hook: JUKI New Defrix Oil N	lo.1 (equivalent to ISO VG7)					
Weight	Machine head Machine head (include motor) 55kg, (include motor) 55kg, Control box 5.5kg Control box 6kg							

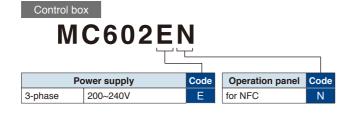
* The special-specification part is available on a special order. Contact our branch or office in your area.

* 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:





• To order, please contact your nearest JUKI distributor.







2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN PHONE : (81) 42-357-2383 FAX : (81) 42-357-2274

* Specifications and appearance are subject to change without prior notice for improvement. st Read the instruction manual before putting the machine into service to ensure safety. * This catalogue prints with environment-friendly soyink on recycle paper.

LBH-1790AN Series Computer-controlled, High-speed, Buttonholing Sewing System

LBH-1790ANB (Shorter-thread rem
LBH-1790AN (Standard)
LBH-1795AN (120mm presser type)
LBH-1796AN (220mm presser type)





DIGITAL SEWING SYSTEM

JUKI ECO PRODUCTS

emaining functions)

LBH-1790AN Series

Management of sewing performance and sewing machine with JUKI's next-generation sewing system.

Machine is mounted with inbuilt NFC (Near Field Communication) and communication devices capable of a 2-way data transmission.

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.
- All 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 The work clamp foot lift can be set as 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.

Explanation of pedal motion

		Pedal type	
Pedal motion	2-pedal	1-pedal (without intermediate position)	1-pedal (with intermediate position)
Initial position	 Intermediate position 	① Maximum position	1 Maximum position
Setting of sewing product	Presser goes up as high as the pedal toe down amount of the left side pedal. Presser comes down when the left side pedal is depressed. →③ Sewing position	The first step of the right side pedal →③ Sewing position	The first step of the right side pedal →② Intermediate position The second step of the right side peda →③ Sewing position
Start of sewing	The right side pedal is depressed.	The right side pedal is depressed. The second step of the right side pedal	
End of sewing	② Presser automatically goes up to intermediate position.	 Presser automatically goes up to maximum position. 	① Presser automatically goes up to maximum position.
Work clamp position		1 Maximum pos	
	7///////	3 Sewing positi	on

Operator-friendly environment

- Operation with reduced noise is ensured by the adoption of the direct-drive motor.
- The illuminance 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-1790AN Series.
- The sewing product can further be placed on the machine easily by installing the auxiliary table (standard accessory). In addition, the needle entry is located in the center of the bed, promising easier positioning of the sewing product.



desired. The reverse-rotation needle-up function offers a maximum work clamp foot lift of 17mm *Please order two-pedal model by a part

17mm



Management, browsing and editing of data can be carried out on the application software

Data on sewing machine adjustments made according to the product to be sewn can be transferred to a commercially-available Android tablet in contactless mode. This enables quick check for uniform settings as well as confirmation of conditions of sewing machines in a sewing line, thereby facilitating setup changes. The operation panel is also provided as standard with a USB port. Data management and software update can be carried out with ease using a USB thumb drive.

Data items of sewing can be numerically managed to ensure "stable quality" and "reduction in time required for setup changes". Quantified sewing data can be externally taken from the sewing machine using an Android tablet or USB thumb drive.

*Android OS Version 6.0 is recommended to use JUKI Smart APP. (Operation is confirmed with respect to Versions 5.0 and later.) Contact JUKI distributor in your area for how to use the application software

The sewing machine can be paired with equipment which supports NFC

(Near Field Communication) only by holding the equipment over the sewing machine

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 basting stitching can be specified separately.

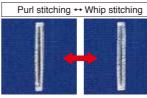
Basting stitch mechanism is effective for the production of beautiful buttonholes.

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.



Without basting stitch With basting stitch (The state in which the material is stretched in the lengthwise direction after buttonholing

Sewing settings can be easily changed.



(For a changeover between purl stitch and whip stitch, threading of bobbin, as well as the bobbin thread tension need to be changed.

Purl stitching Whip stitching

Management of sewing performance and sewing machine



Neи



The machine is equipped with a multiple knife-dropping function.

- Thanks to the multiple knife-dropping function, it is no longer required that the knife be changed at the time the buttonhole size is changed. The number of knife dropping times can be automatically set according to the buttonholing size in cases where the buttonhole size is frequently changed for small-lot productions or during the cycle sewing of buttonholes that are different in size.
- The double-acting stepping motor type knife mechanism is free from the faulty dropping/returning of the knife.
- The knife supports sewing lengths of 41mm at the maximum. In addition, knife mechanisms for 70mm and 120mm are optionally available.





State of firstround

Finished state of double stitching

- 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
- First- and second-round stitches can be sewn using different stitch widths.

LBH-1790ANB^{(Shorter-thread remaining} · LBH-1790AN

LBH-1790ANB (Shorter-thread remaining functions)

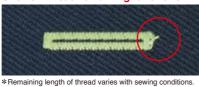


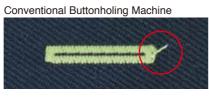
Shorter - thread remaining mechanism

The length of remaining bobbin thread becomes shorter, less than 2.5mm on average.

The newly-developed shorter-thread remaining mechanism trims the thread short and eliminates the trouble of manual thread nipping.

Shorter-thread remaining functions





LBH-1790AN

The LBH-1790AN Series follows the world's highest sewing speed and dry-head mechanism of its predecessor model. In addition, this machine comes with the latest model operation panel which is installed with a USB port. Furthermore, all drive mechanisms have been digitalized to manage each sewing pattern individually. The maximum sewing speed is 4,200sti/min, and the jump speed is 200mm/s. The cycle time has been further reduced for continuous sewing

LBH-1795AN (120mm presser type)



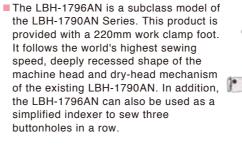
The knife supports sewing lengths of 41mm at the maximum. Since the LBH-1795ANS is provided as standard with the 120 mm presser, it is capable of sewing 120mm long buttonholes. The LBH-1795ANS is capable of sewing long buttonholes such as belt holes in car seats. In addition, it is applicable to the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

The upper limit of the adjustment of the presser foot pressure has been expanded. The presser foot pressure is now digitally controlled. As a result, the machine acquires improved responsiveness to knit materials and car seats.



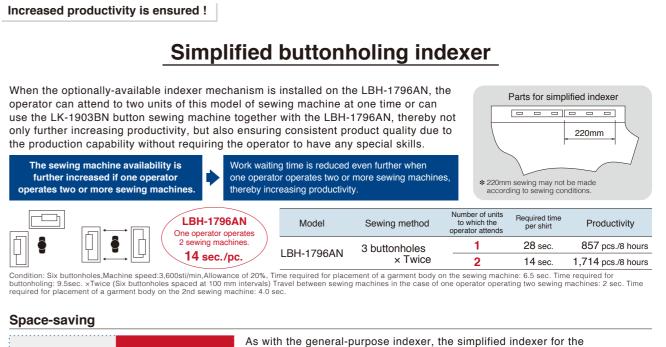
LBH-1795ANS

LBH-1796AN (220mm presser type)





○ The jump speed has been increased. **Productivity** (LBH-1790AN: Max 200 mm/s LBH-1796AN: Max 540 mm/s)





Option <Parts for simplified indexer>

No.	Description	Part No.
1	Auxiliary carrier clamp asm.: A set of a solenoid valve and a regulator	40153979
2	A set of a laser marking lamp and an LED marking lamp	40153980
3	Both sets ① and ②	40153978

LBH-1796ANS (table stand and parts for indexer are optionally available)

○ The maximum sewing speed of the LBH-1796AN is 4,200 sti/min (equivalent to the maximum sewing speed of the LBH-1790AN).

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

LBH-1796AN permits easy addition to and change of the production line, thereby contributing to saved installation space. The table area of the LBH-1796AN is 56% less than that of the AC-172N-1790.

The machine is provided as standard with as many as 31 stitch patterns for buttonholing.

1 Square	2 Round	3 Radial square	4	5 Radial straight	6 Radial taper	7 Eyelet square	8 Eyelet radial
9	10	11	12	13	14	15	
Eyelet straight bartacking	Eyelet taper bartacking	Semilunar	Round square	Semilunar square	Semilunar straight bartacking	Semilunar taper bartacking	Eyelet semilunar
17 WWWWWW	18	19 WYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	20	21	22	23	24
Eyelet round	Square radial	Square semilunar	Square round	Square straight bartacking	Square taper bartacking	Radial semilunar	Radial round
25	26	27	28 NVNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	29 1000000000000000000000000000000000000	30	31	
Semilunar radial	Semilunar round	Bartacking	Bartacking, right cut	Bartacking, left cut	Bartacking, center cut	Basting stitch + Knife	

It is able to store 99 different patterns in its memory, which can be selected as desired from the operation panel.

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. This eliminates oil stains on the sewing product.

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 3,300sti/min)

Adjustment of the hook oil quantity



The newly installed "hook oil quality adjustment screw" can be found by opening the hook lid cover. With this screw, the operator is able to to adjust the oil quantity in the hook with ease.

Oil can be easily added to the hook oil quantity tank with an oiler.

ection (minute-quantity lubrication)



- 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.

Foot pedal

• Two-Pedal switch

[Part No. 40003491]

Option



Foot pedal for standing work PK-57 [Det No. OPK-20010D0]

[Part No. GPK570010B0] *To connect the cable asm. to the electrical box, *conversion cable (separately available) is necessary.

 Pedal switch conversion cable asm. [Part No. 40003493] Cloth cutting knife, Work clamp, Work clamp foot

	Cloth cutting				V	Vork clamp*	В	•		Wo	rk clar	np foot *		
	Mark								200					
Knife					For stitch width 5mm			For stitch width 6mm						
size				LBH-1790AN (standard)			LBH-1790S (standard)	12						
	Part No.		Mark	(Length of c	(Length of cloth of		Part No. (Length of cloth cutting knife) <type> (A×B) Part No. (Length of cloth cutting knife) (A×B)</type>		Part No. (Length of cloth cutting knife) <type> (A×B)</type>	Part No. <type></type>	1790 S	Option* (for knits)	Part No.	1795 S
6.4mm (1/4")	B2702-047 -F00		F											
9.5mm (3/8")	B2702-047 -K00-A	Δ	к											
11.1mm (7/16")	B2702-047 -l00		I		O					D1511-771 -KA0-A	0	*		
12.7mm (1/2")	B2702-047 -L00-A	O	L	B1552-781-000-A (6.4~19.1mm)		D1508-771-K00-A (6.4~19.1mm)								
14.3mm (9/16")	B2702-047 -V00		V	<1> (4×25mm)			<1> (4×25mm)				<1>		*	
15.9mm (5/8")	B2702-047 -M00-A	Δ	М				40008658 (5~120mm))	145-24409 (6.4~31.8mm) <3> (6×41mm)				40008646	0
17.5mm (11/16")	B2702-047 -A00		A						<3> (0x4 11111)					
19.1mm (3/4")	B2702-047 -N00		Ν											
22.2mm (7/8")	B2702-047 -P00		Ρ	B1552-782-000		D1508-772-K00				D1511-772	*	*		
25.4mm (1")	B2702-047 -Q00-A		Q	(6.4~25.4mm) <2> (5×35mm)		(6.4~25.4mm) <2> (5×35mm)				-KA0 <2>	*	ጥ		
31.8mm (1-1/4")	B2702-047 -S00-A		s	B1552-783-000 (6.4~31.8mm) <3> (5×41mm)		D1508-773-K00 (6.4~31.8mm) <3> (5×41mm)				D1511-773 -KA0 <3>	*	*		

🔘: Factory installed on machine 🛆: Supplied as an accessory (For LBH-1790ANS) 🛠: The work clamp foot for option orders two screw part. [Part No. SS-6060210-SP]

Throat plate

For needle				Part No.	Description	
throwing width	Standard (S)	Part No. (Marking: A×B) For Knit (option)*		13782065	Hook asm. *	
5mm	40027553 (1.4×6.2mm)	40027554 (1.2×6.2mm)		13782107	Hook timing gougo X	
6mm	D24027772E00 (1.4×7.4mm)	_		13762107	Hook timing gauge *	

O: Factory installed on machine

* When you change LBH-1790AN into knitting.

Designation	Part No.	Description			Feature		
Non-lubricated hook	400-06345	RP hook (asm.)			By the installation of non-lubricated hook, the machine is changed to be a fully dry-head machine. (In this		
	400-06349	RP bobbin case	BP poppin case				
	137-29660			case, the maximum sewing speed will be 3,300sti/m			
	SS-8660612-TP (4 pcs.)	Screws					
	400-06340	Work clamp arm spacer					
	SM-6040450-TP (3 pcs.)	Screws					
	145-23252	Work clamp foot 70		Exclusive to 70mm			
	145-23401	Work clamp 70		Exclusive to 70mm	The work clamp is applicable		
	145-23708	Urethane work clamp 70	Selectable				
	145-24102	Flat work clamp 70					
Work clamp	400-08646	Work clamp foot 120 (asm.)		 Exclusive to 120mm 	to the sewing length of 70mm or 120mm. With this work clamp, holing of belt holes in child seat is possible.		
(For sewing length of 70 mm, 120mm)	400-08658	Work clamp 120					
	400-06335	Work clamp arm 120		Common to 70 mm			
	400-06339	Cloth feeding plate 120					
	40028682	Close cam 120					
	40112711	Lifting plate 120	Lifting plate 120				
	SM-6050800-SP (2 pcs.)	Screws	Screws				
	SS-6060210-SP (2 pcs.)	Screws	Screws				
	G5001-198-0A0-A	Electric bobbin winder (as	sm.)				
Electric bobbin winder	400-05405	Power cord (asm.)	Power cord (asm.)		g bobbin separately.		
Electric poppiri winder	400-53150	Tension controller (asm.)			ig bobbin separately.		
	SK-3452001-SE	Wood screws	Wood screws				
2-pedal unit	GPK-510010B0	Pedal switch (asm.)					
for standing work	400-03493	Junction cable (asm.)	Junction cable (asm.)				

Other option parts for knit

Please order parts of cloth cutting knife (standard: 25.4mm), work clamp, work clamp foot, throat plate, hook asm. and hook timing gauge.