



The LBH-1790A Series follows the world's highest sewing speed and dry-head mechanism.



(Table stand is optionally available.)



The thread tension and all drive mechanisms are electronically controlled.

# LBH-1790A Series

The LBH-1790A 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.

# **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 sewina.

# Cycle sewing and continuous sewing.

### Cycle sewing

Twenty different programs can be registered, and as many as 15 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 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.

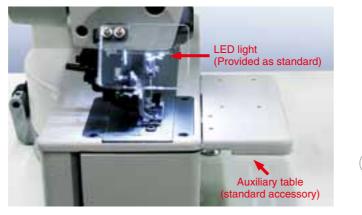
The work clamp foot lift can be set as desired. The reverse-rotation needle-up function offers a maximum work clamp foot lift of 17mm.

### Explanation of pedal motion

	Pedal type							
Pedal motion	2-pedal	1-pedal (without intermediate position)	1-pedal (with intermediate position)					
Initial position	<ol> <li>Intermediate position</li> </ol>	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. $\rightarrow$ 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 second step of the right side pedal	The third step of the right side pedal					
End of sewing	② Presser automatically goes up to intermediate position.	<ol> <li>Presser automatically goes up to maximum position.</li> </ol>	① Presser automatically goes up to maximum position.					
Work clamp position		① Maximum pos						
	7///////	3 Sewing position	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-1790A 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.



17mm

# **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.

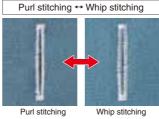
# Basting stitch mechanism is effective for the production of beautiful buttonholes.

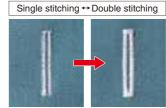
The basting stitch is effective on elastic materials such as knits. Basting stitch: Since the needle thread is tucked in without fail, it will never jut out of the buttonhole seams. Basting stitch can be sewn by nine rounds.



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.





State of firstround Finished state of double stitching stitch

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

is skipped and only the parallel sections are sewn twice. This prevents any excessively tight finishes in the bartacking section of the huttonhole

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



LBH-1790AS



### 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. In addition, the knife pressure can be changed according to the material to be sewn.
- The knife supports sewing lengths of 41mm at the maximum. In addition, knife mechanisms for 70mm and 120mm are optionally available.

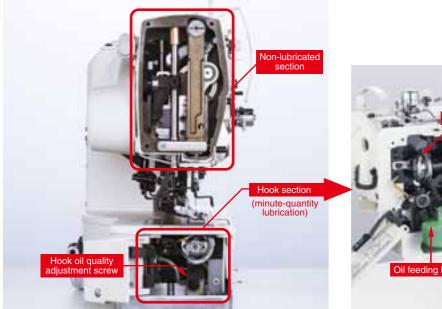


# Improved maintainability

# 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.

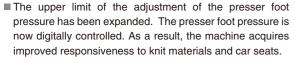


- Only a minute-quantity of clean oil is fed to the hook section from the oil tank.
- The oil tank is made of shatter proof material, thereby preventing tank-related troubles such as breakage by some mishap.

# **LBH-1795A**

Computer-controlled, High-speed, Buttonholing Machine (120mm presser type)

The knife supports sewing lengths of 41mm at the maximum. Since the LBH-1795AS is provided as standard with the 120 mm presser, it is capable of sewing 12-mm long buttonholes. The LBH-1795AS 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.

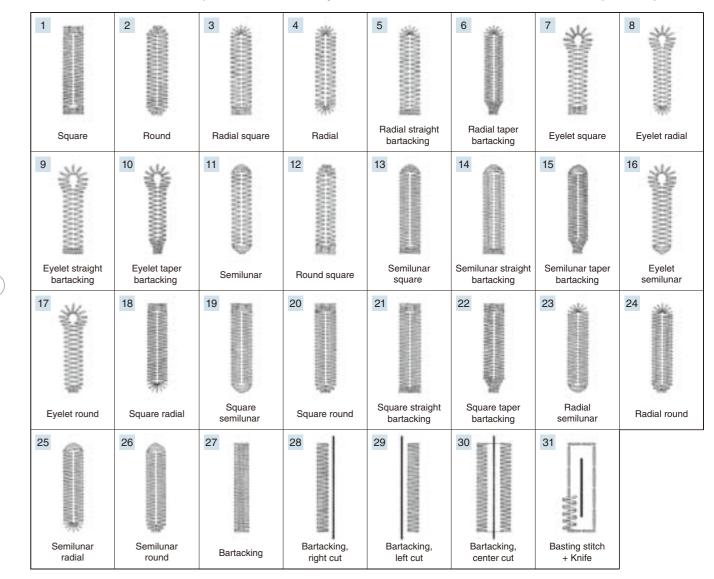






# The machine is provided as standard with as many as 31 stitch patterns for buttonholing.

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



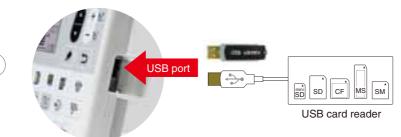
# **OPERATION PANEL**

# STANDARD LIQUID CRYSTAL PANEL (NEW)

USB Port is provided as standard on the standard panel The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. The main body of the sewing machine is provided as stanrard with a USB port. Now, date can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), etc.) by means of a USB thumb device and a card reader.

All kinds of data can be entered on or selected from the operation panel.

The panel display supports 14 different languages.



LBH-1795AS



# **OPTION**

### Cloth cutting knife, Work clamp

Knife	Cloth cutting knife		Wo	rk clamp	B FERNENDERNINGEN FERNENDERNING	Work clamp foot				
size				For stitch width 5mm		For stitch width 6mm		6		°
			LBH-1790A (standard)	Option (for knits)	LBH-1795A (standard)	LBH-1790S (standard)	ण्	<u>ک</u>		
	Part No.	Mark	(Length of clo	t No. th cutting knife) > (A×B)	Part No. (Length of cloth cutting knife) (A×B)	Part No. (Length of cloth cutting knife) <type> (A×B)</type>	Part No. <type></type>	1790 S	Part No.	1795 S
6.4mm (1/4")	B2702-047 -F00	F								
9.5mm (3/8")	В2702-047 -К00-А	к		<ul> <li>D1508-771-K00-A</li> <li>(6.4~19.1mm)</li> <li>&lt;1&gt; (4×25mm)</li> </ul>			D1511-771 -KA0-A <1>	O		
11.1mm (7/16")	B2702-047 -100	I								
12.7mm (1/2")	B2702-047 -L00-A	L	B1552-781-000-A (6.4~19.1mm) <1> (4×25mm)							
14.3mm (9/16")	B2702-047 -V00	v								
15.9mm (5/8")	В2702-047 -М00-А	м			40008658 (5~120mm)	145-24409 (6.4~31.8mm) <3> (6×41mm)			40008646	$\odot$
17.5mm (11/16")	B2702-047 -A00	A								
19.1mm (3/4")	B2702-047 -N00	N	B1552-782-000 (6.4~25.4mm) ∧	D1508-772-K00 (6.4~25.4mm)			D1511-772 -KA0	$\wedge$		
22.2mm (7/8")	B2702-047 -P00	Р	<2> (5×35mm)	<2> (5×35mm)			<2>			
25.4mm (1")	B2702-047 -Q00-A	Q	B1552-783-000 (6.4~31.8mm)	D1508-773-K00 (6.4~31.8mm)			D1511-773 -KA0			
31.8mm (1-1/4")	B2702-047 -S00-A	s	<3> (5×41mm)	<3> (5×41mm)			-KAU <3>			

Part No.

13782065

13782107

Description

Hook asm.

Hook timing gauge

For needle throwing width			Part No. (Marking: A×B)
	Standard (S)		For Knits (option)
5mm	400-04350 (1.4×6.2mm)	$\bigcirc$	400-04352 (1.2×6.2mm)
6mm	400-04351 (1.4×7.4mm)		400-04353 (1.2×7.4mm)
	C: Factory installed on machine		

Designation	Part No.	Description		Feature			
	400-06345	RP hook (asm.)					
Non-lubricated hook	400-06349	BP nonnin case		By the installation of non-lubricated hook, the machine is changed to be a fully dry-head machine. (In this case, the maximum sewing speed will be 3,300sti/min)			
Non-iubricateu nook	137-29660						
	SS-8660612-TP (4 pcs.)	Screws					
	400-06340	Work clamp arm spacer					
	SM-6040450-TP (3 pcs.)	Screws					
	145-23252	Work clamp foot 70 (asm.)		Exclusive to 70mm			
	145-23401	Work clamp 70					
	145-23708	Urethane work clamp 70	Selectable				
	145-24102	Flat work clamp 70			The work clamp is applicable to		
Work clamp (For sewing length	400-08646	Work clamp foot 120 (asm.)		Exclusive to 120mm	the sewing length of 70mm or 120mm. With this work clamp, holing of belt holes in child seat is possible.		
of 70 mm, 120mm)	400-08658	Work clamp 120					
	400-06335	Work clamp arm 120					
	400-06339	Cloth feeding plate 120					
	400-06341	Close cam 120		Common to 70 mm			
	400-06342	Lifting plate 120		and 120 mm			
	SM-6050800-SP (2 pcs.)	Screws					
	SS-6060210-SP (2 pcs.)	Screws					
	G5001-198-0A0-A	Electric bobbin winder (a	asm.)				
Electric bobbin winder	400-05405	Power cord (asm.)		It is a device for winding bobbin separately.			
	400-53150	Tension controller (asm.	.)				
	SK-3452001-SE	Wood screws					
2-pedal unit	GPK-510010B0	Pedal switch (asm.)					
for standing work	400-03493	Junction cable (asm.)					

# **SPECIFICATIONS**

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Model name	LBH-1790A Series			
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	6.4~31.8mm (1/4"~1-1/4")			
Bartacking width	Max. 5.0mm (with special-specification part: Max. 10mm*)			
Buttonhole length	Max. 41mm (optional: 70mm, 120mm) , LBH1795:120mm			
Precision of needle throwing mechanism	0.05mm			
Needle thread tension	Active tension (electronic thread tension control system)			
Number of stitches	Automatically computed from the size of the buttonhole and stitch pitch			
Needle (at the time of delivery)	DP×5 (#11J) #11J~#14J			
Hook	DP type, full-rotary hook			
	Non-lubricated hook (optional)			
Lift of the work clamp	14mm (17mm when the reverse-rotation needle-up function is used)			
Auto-lifter	Provided as standard (stepping motor type)			
Needle throwing system	Stepping motor			
Cloth feeding system Intermittent feed by stepping motor				
Cloth cutting knife system Stepping motor				
Number of standard patterns	31 patterns			
Number of patterns that can be input	Max. 99 patterns			
Bobbin thread winder	Built-in the machine head			
Machine head drive system	Compact AC servomotor (direct-drive system)			
Power requirement/ Power consumption	3-phase 200~240V/250VA			
Lubrication	Only the hook section needs a minute-quantity lubrication. * No lubrication is required when the non-lubricated hook (optional) is used.			
Lubricating oil	Hook: JUKI New Defrix Oil No.1 (equivalent to ISO VG7)			
Weight	ight Machine head (include motor) 55kg, Control box 6kg			

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

★ CompactFlash or CFA specification compatible media.
 ★ "CompactFlash " is a registered trademark of SanDisk Corporation, U.S.A.
 ★ 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:

Machine	haad
Machine	

— L	.BH179		Α	S		
Model				Туре		Code
Knife width	Work clamp type	Code		Standard	ł	S
6.4~22.2mm	4mm × 25mm	0				
6.4~31.8mm	5mm × 120mm	5				

Control box

חנו		MC602[	] <b>S</b>	
	Powe	er supply	Code	Operation panel
	3-phase	200~240V	Е	Standard
		220~240V	K	
	Single-phase	CE 220~240V (not provided with power switch)	Ν	

• To order, please contact your nearest JUKI distributor.

JUKI ECO PRODUCTS	The LBH-1790A Series is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment
	<ul> <li>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.</li> </ul>
	• This sewing machine reduces power consumption by 27% as compared with the conventional models.
JUKI ECO PRODUCTS	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.

Code

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JUKI CORPORATION HEAD OFFICE Juki Corporation operates an environmental manager to promote and conduct the following as the company the research, development, design, sales, dist maintenance of industrial sewing machines, house machines, industrial robots, etc., and in the provision maintenance services for data entry systems:

maintenance services for data entry systems: (1) The development of products and engineering processes that are safe to the environment (2) Green procrement and green purchasing (3) Energy conservation (reduction in carbon-dixxide emission (4) Resource saving (reduction of papers purchased, etc.) (5) Reduction and recycling of waste (6) Improvement of logistics efficiency (modal shift and improvement of packaging, 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

\* 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.