SPECIFICATIONS

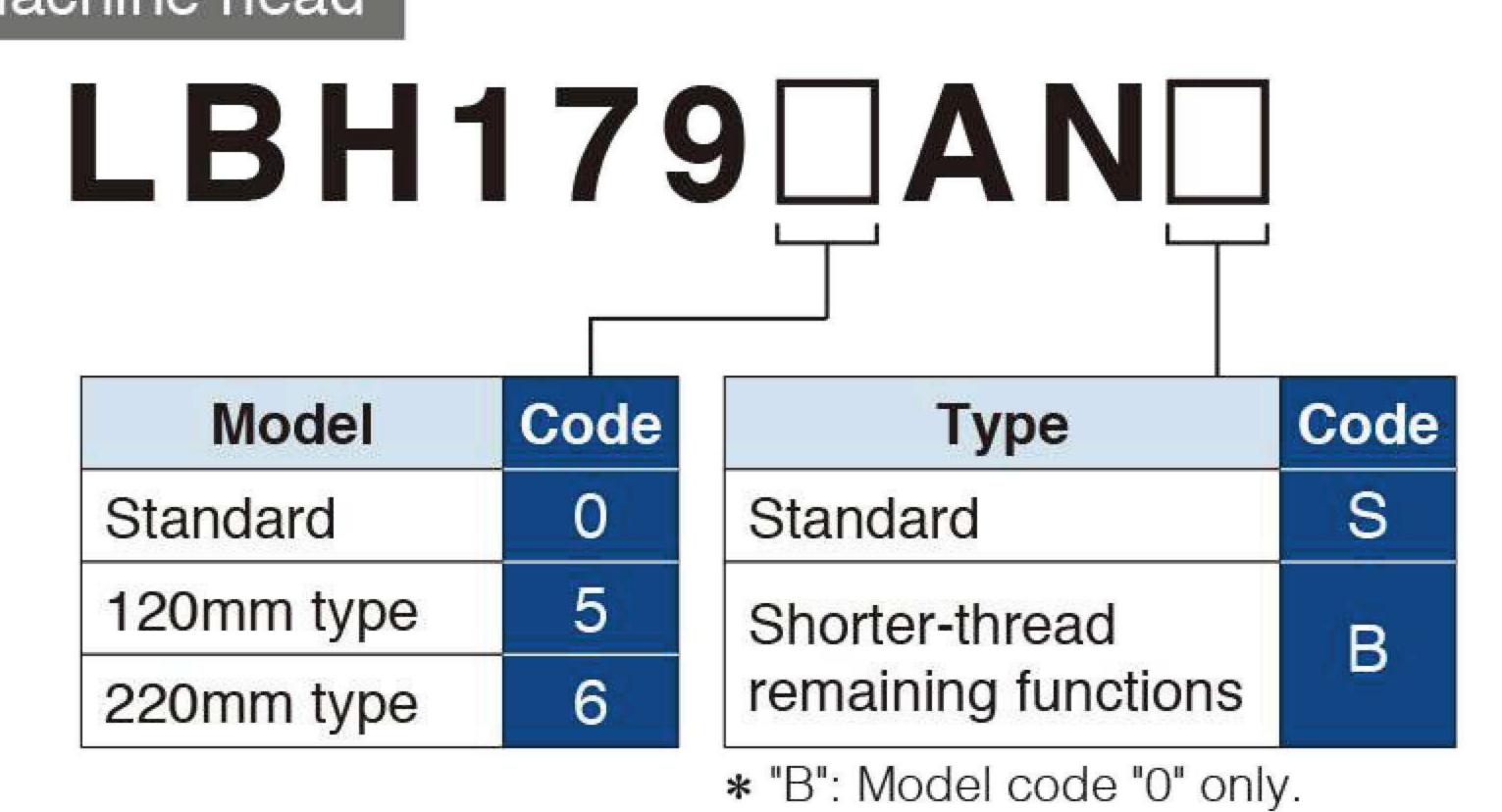
Model name	LBH-1790ANB	LBH-1790AN	LBH-1795AN	LBH-1796AN		
Sewing speed	Max. 4,200sti/min, Normal 3,600sti/min When the non-lubricated hook (optional) is used: 3,300sti/min					
Needle bar stroke	34.6mm					
Size of cloth cutting knife	6.4~22.2mm (1/4"~7/8")	6.4~22.2mm (1/4"~7/8") 6.4~31.8mm (1/4"~1-1/4") 6.4~25.4mm				
Bartacking width	Max. 4.0mm	Max. 5.0mm (with special-spe	ecification part: Max. 10mm*)	Max. 5.0mm		
Buttonhole length	Max. 25mm	Max. 41mm (optional: 70mm, 120mm)		Max. 220mm		
Precision of needle throwing mechanism		0.05	mm			
Needle thread tension		Active tension (electronic three	ead tension control system)			
Number of stitches	Aut	omatically computed from the siz	ze of the buttonhole and stitch p	oitch		
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) Parallel lifting 6mm					
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	g motor			
Number of standard patterns		31 pat	terns			
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 servomoto	or (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 N	o.1 (equivalent to ISO VG7)			
Weight	Machine head (include motor) 55kg, Control box 5.5kg Machine head (include motor) 55kg, Control box 6kg					

^{*} sti/min is the abbreviation for "stitches per minute"

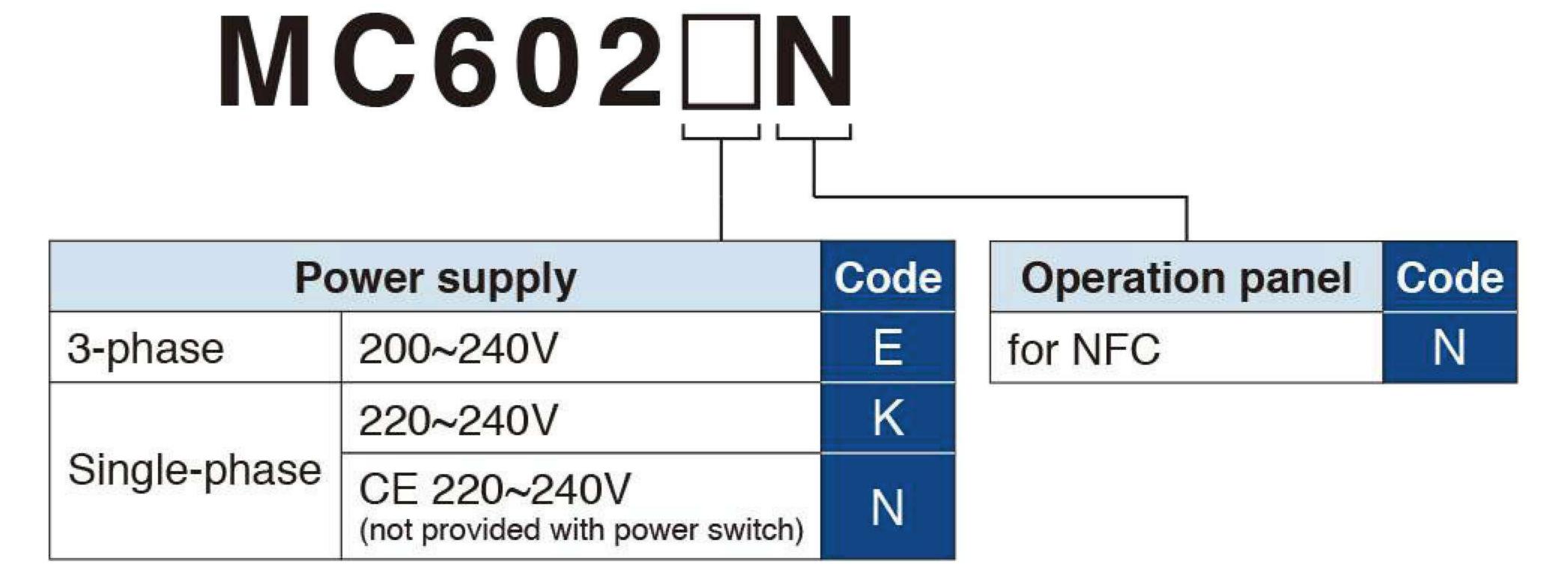
WHEN YOU PLACE ORDERS

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

Machine head



Control box



To order, please contact your nearest JUKI distributor.

ECO PRODUCTS The LBH-1790AN Series 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.

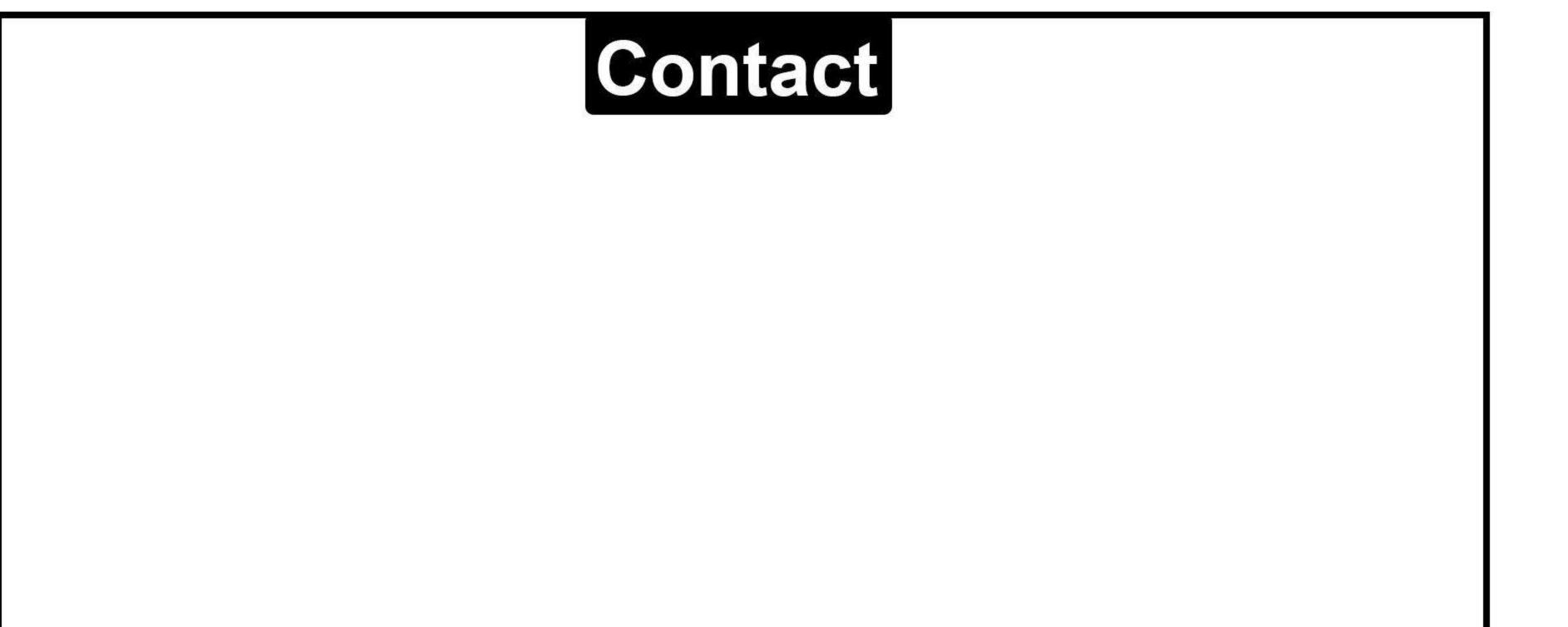
For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html

*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.



The Scope of the Registration: The activities of research development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.





LBH-1790AN Series

Computer-controlled, High-speed, Buttonholing Sewing System



LBH-1790ANB (Shorter-thread remaining functions)

LBH-1790AN (Standard)

LBH-1795AN (120mm presser type)

LBH-1796AN (220mm presser type)





^{*} 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.

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

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

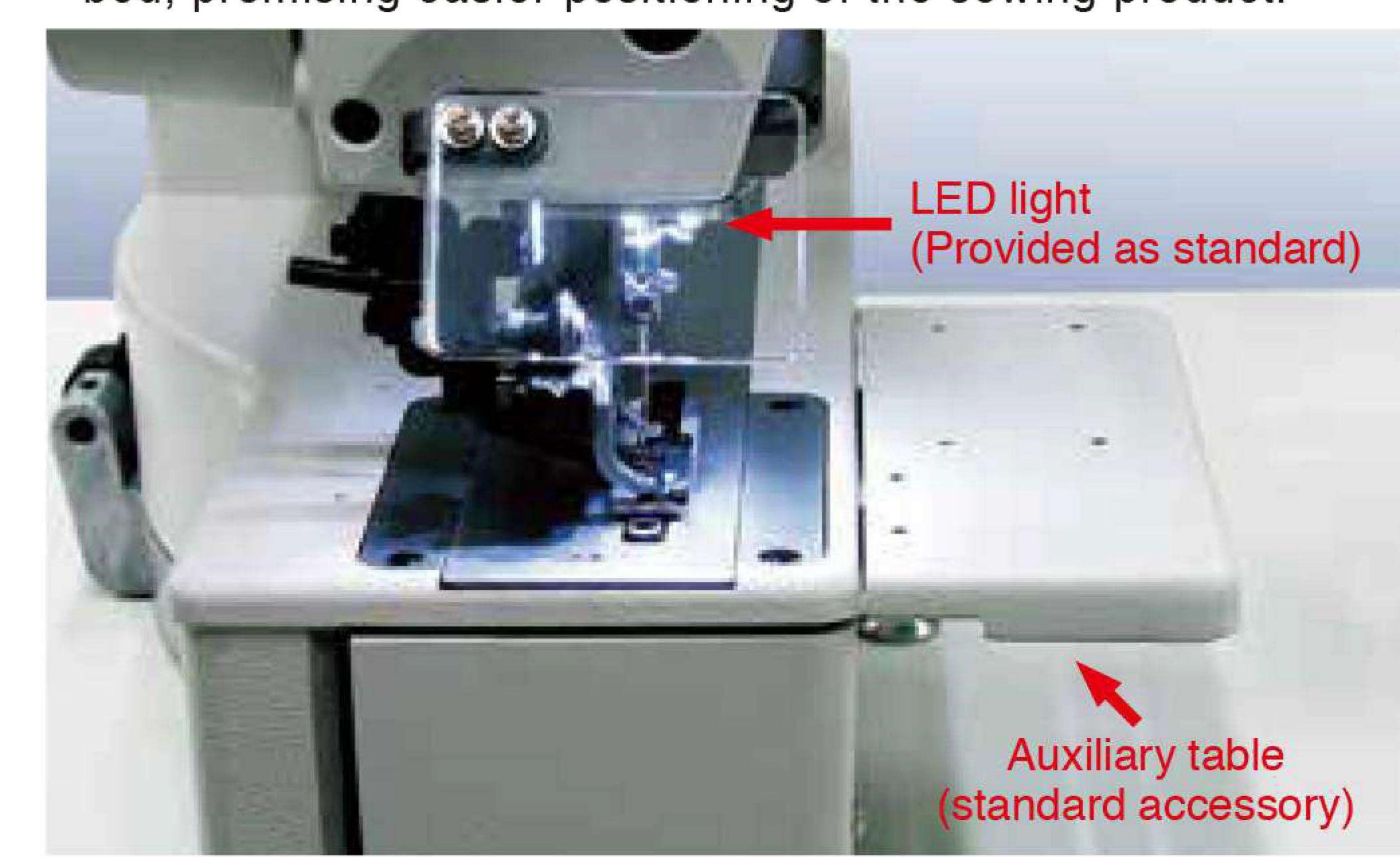
The machine is able to continuously sew two or more different patterns without requiring the work clamp foot to be lifted. As may as 20 programs can be registered, and six different patterns can be stored in one program. (Related parts need to be exchanged for optional ones.)

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.

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.



Many functions of the pedal.

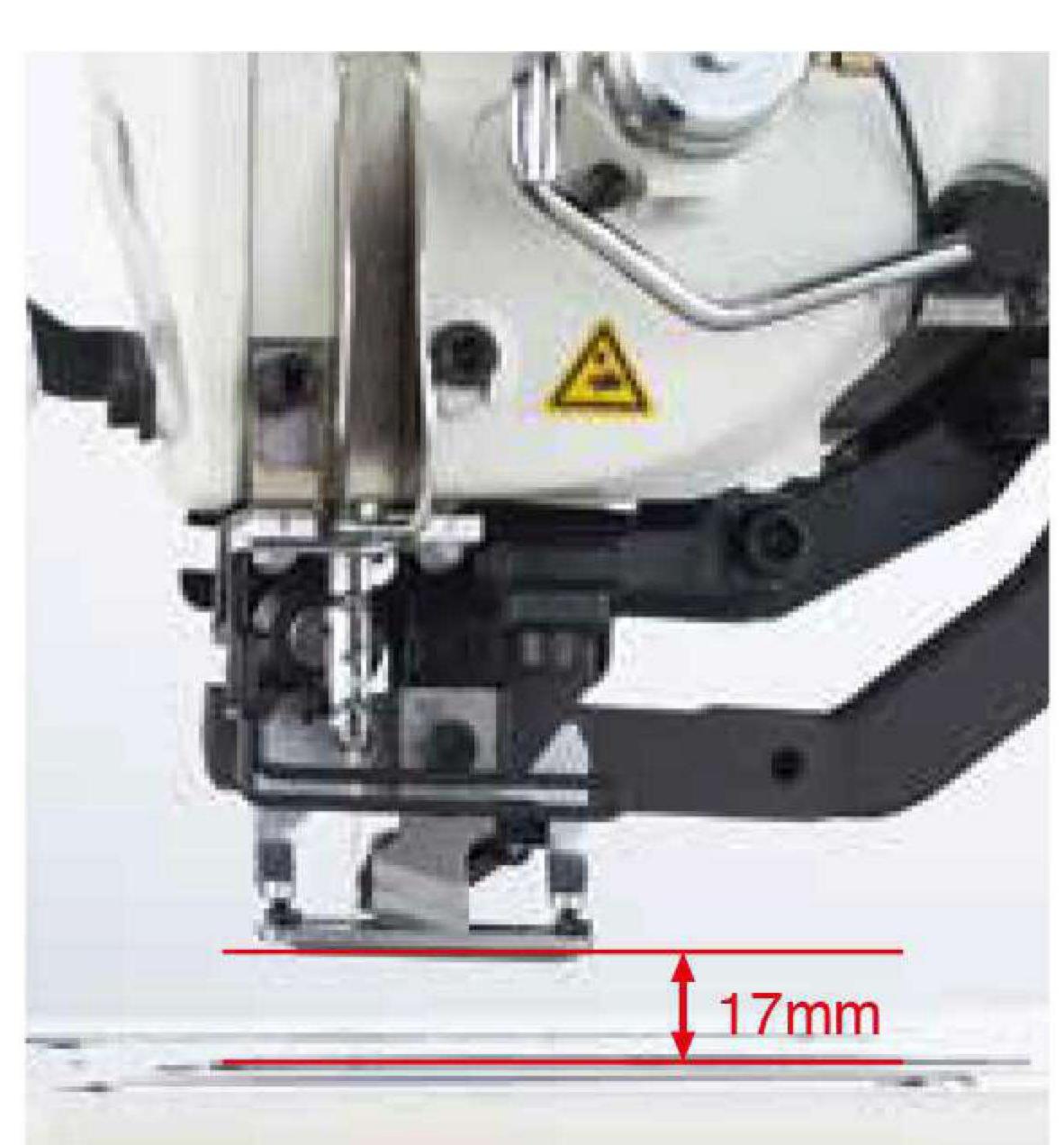
■ The machine is provided as standard with a newly-developed auto-lifter driven by a stepping ■ The work clamp foot lift can be set as motor. This helps reduce the operator's fatigue. As for the pedal, one-pedal and two-pedal models can both be changed over and the intermediate stop, which facilitates positioning of the sewing product, can be specified.

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

* Please order two-pedal model by a part.

Explanation of pedal motion

	Pedal type							
Pedal motion	2-pedal	1-pedal (without intermediate position)	1-pedal (with intermediate position)					
Initial position	② 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	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.	Presser automatically goes up to maximum position.	Presser automatically goes up to maximum position.					
Work clamp position 2 Intermediate position 3 Sewing position Cloth								



Management of sewing performance and sewing machine by the utilization of IoT (Internet of Things)

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.

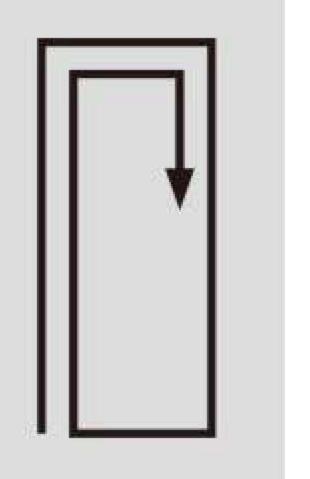
The machine is equipped

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.







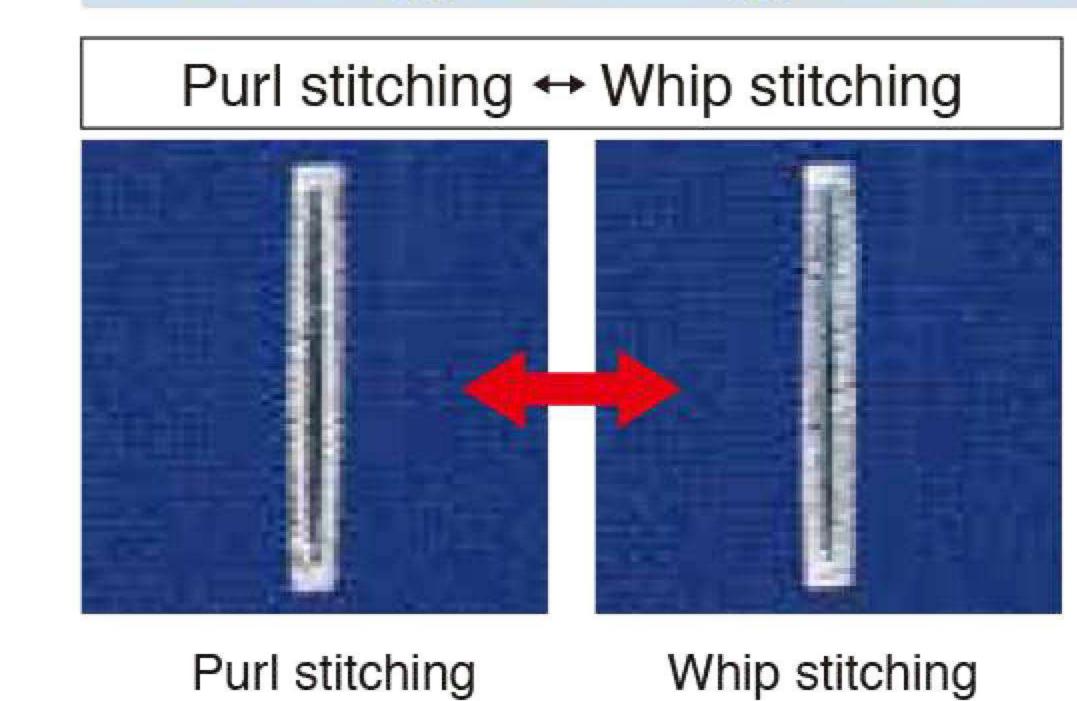
Without basting stitch With basting stitch (The state in which the material is stretched in the lengthwise direction after buttonholing)

Basting stitch

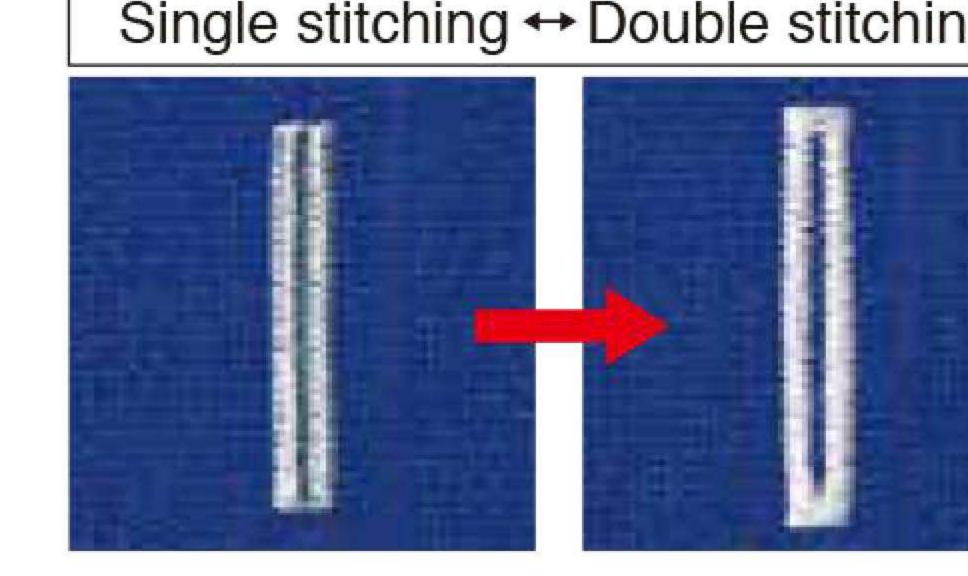
with a multiple knife-dropping function.

- 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.

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.)



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

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.

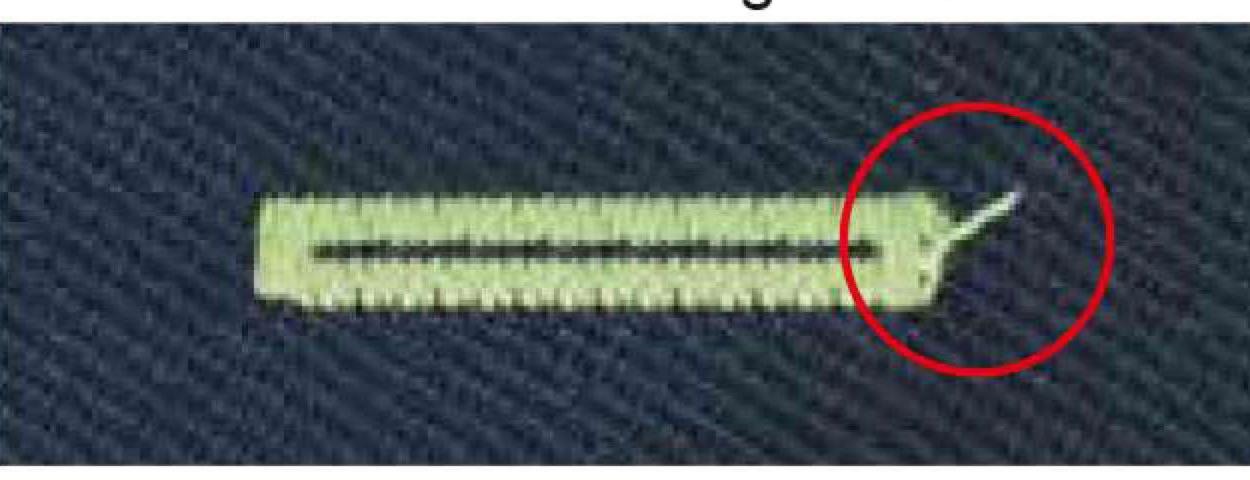
The newly-developed shorter-thread remaining mechanism trims the thread short and eliminates the trouble of manual thread nipping.

Shorter-thread remaining functions



*Remaining length of thread varies with sewing conditions.

Conventional Buttonholing Machine



LBH-1790ANB

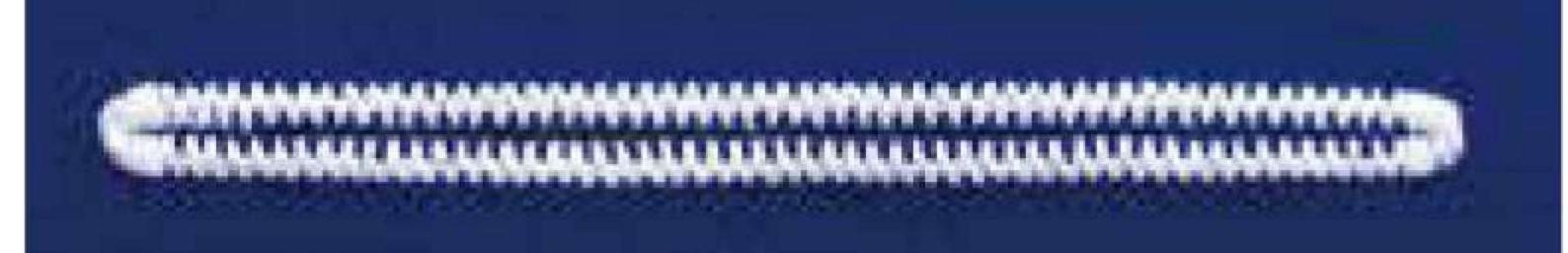
LBH-1790AN

■ 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

120mm presser type

BH-1796AN (220mm presser type)

The LBH-1796AN is a subclass model of the LBH-1790AN Series. This product is provided with a 220mm work clamp foot. It follows the world's highest sewing speed, deeply recessed shape of the machine head and dry-head mechanism of the existing LBH-1790AN. In addition, the LBH-1796AN can also be used as a simplified indexer to sew three buttonholes in a row.

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).

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

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

Increased productivity is ensured!

Productivity

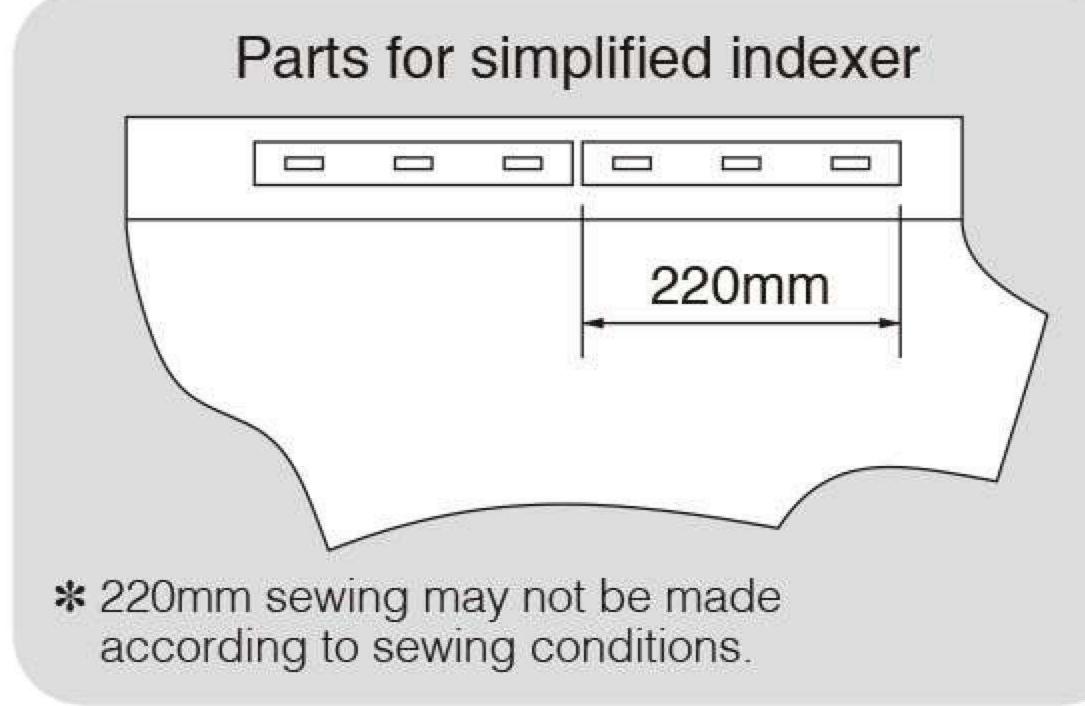
Annual property

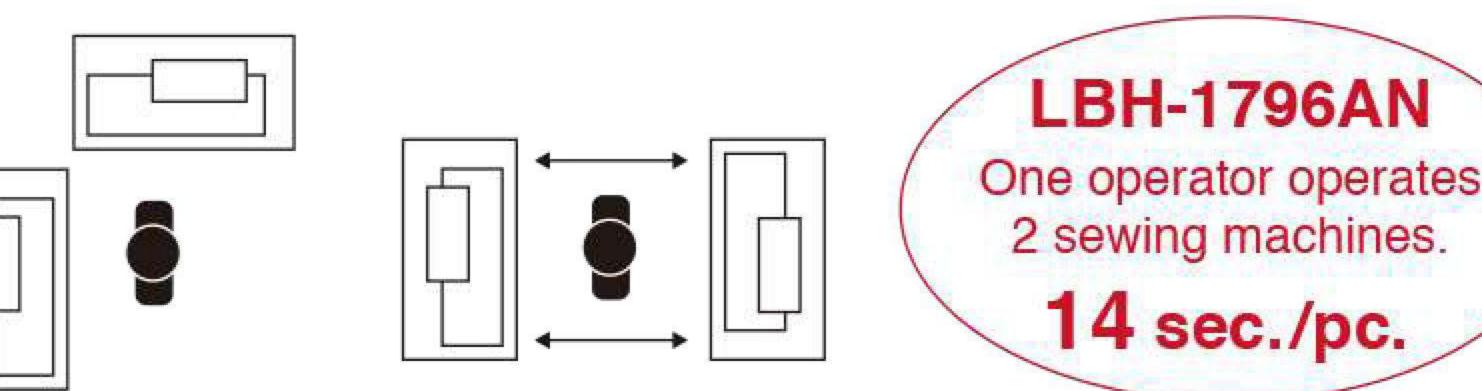
Simplified buttonholing indexer

When the optionally-available indexer mechanism is installed on the LBH-1796AN, the operator can attend to two units of this model of sewing machine at one time or can use the LK-1903BN button sewing machine together with the LBH-1796AN, thereby not only further increasing productivity, but also ensuring consistent product quality due to the production capability without requiring the operator to have any special skills.

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.



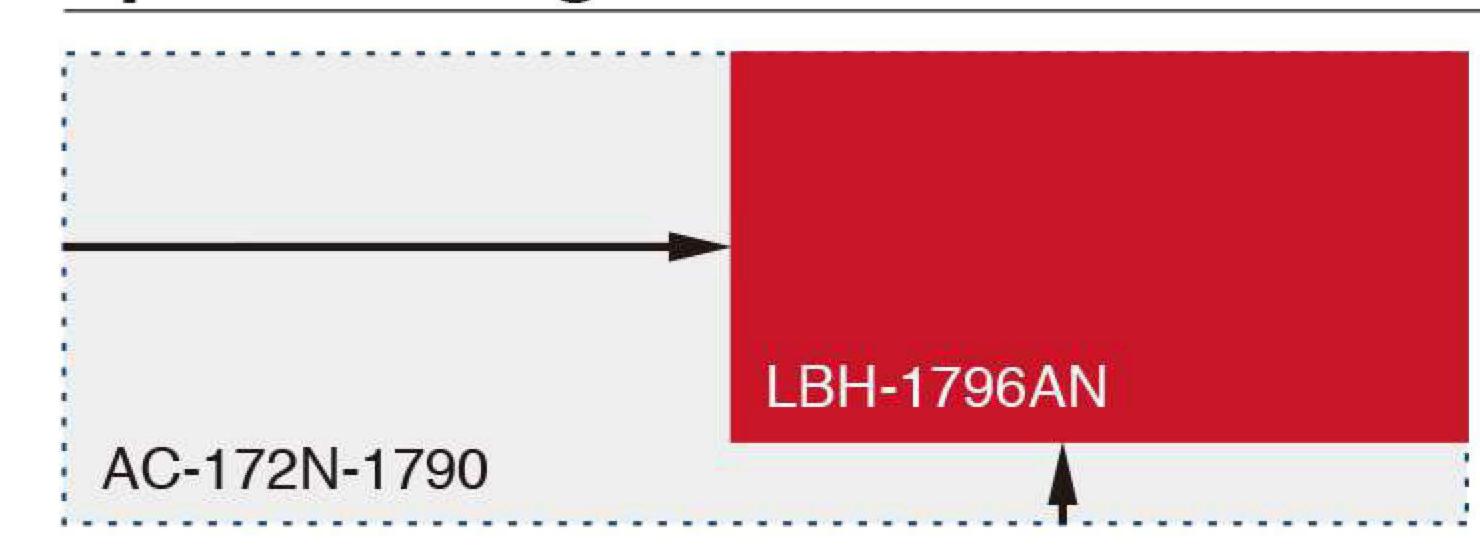


796AN	N
or operates	888
nachines.	
c./pc.	LBH-

Model	Sewing method	Number of units to which the operator attends	Required time per shirt	Productivity
.BH-1796AN	3 buttonholes	1	28 sec.	857 pcs./8 hours
	× Twice	2	14 sec.	1,714 pcs./8 hours
2 112 1				

Condition: Six buttonholes, Machine speed: 3,600sti/min, Allowance of 20%, Time required for placement of a garment body on the sewing machine: 6.5 sec. Time required for buttonholing: 9.5sec. xTwice (Six buttonholes spaced at 100 mm intervals) Travel between sewing machines in the case of one operator operating two sewing machines: 2 sec. Time required for placement of a garment body on the 2nd sewing machine: 4.0 sec.

Space-saving



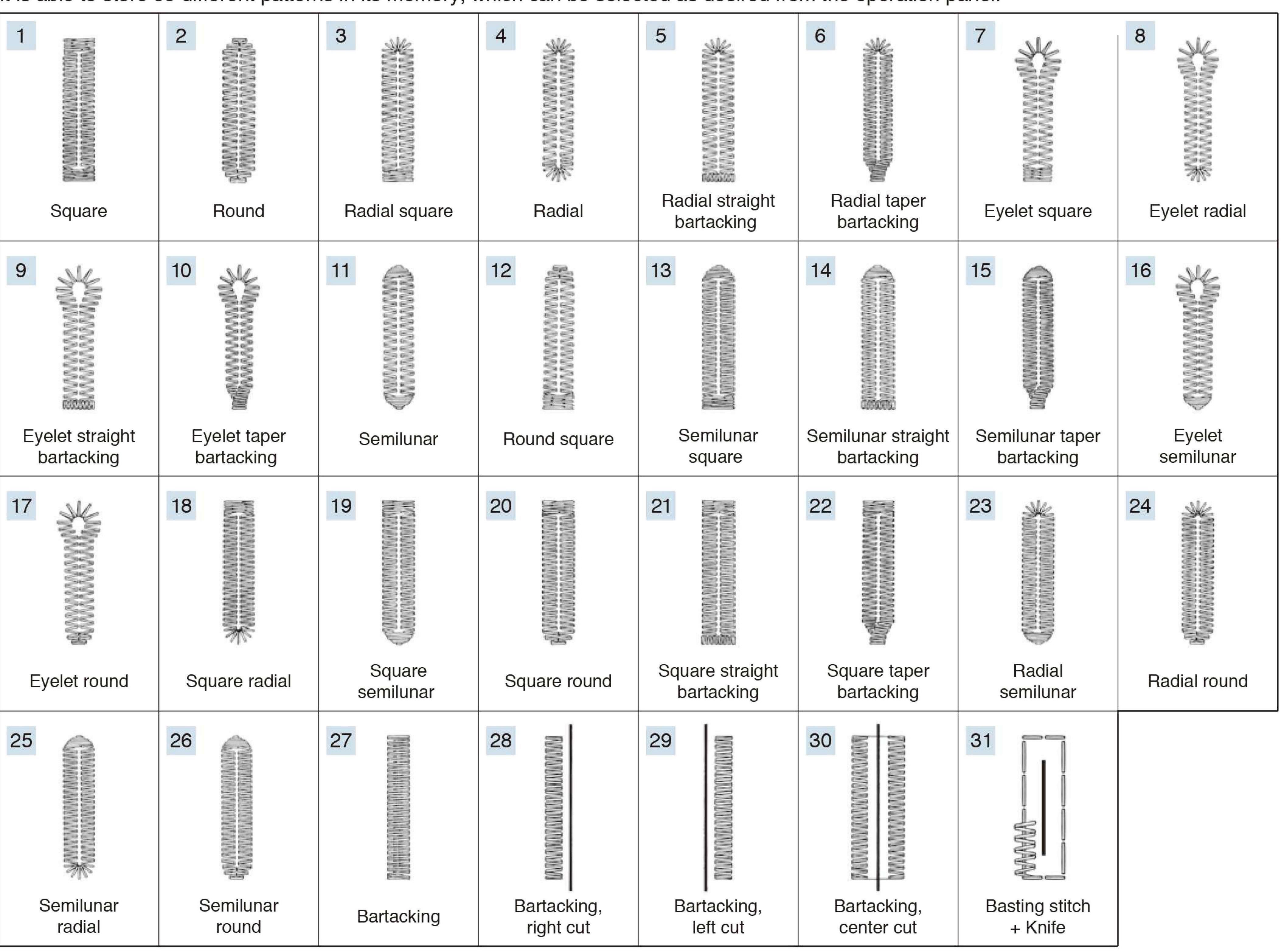
As with the general-purpose indexer, the simplified indexer for the LBH-1796AN permits easy addition to and change of the production line, thereby contributing to saved installation space. The table area of the LBH-1796AN is 56% less than that of the AC-172N-1790.

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

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

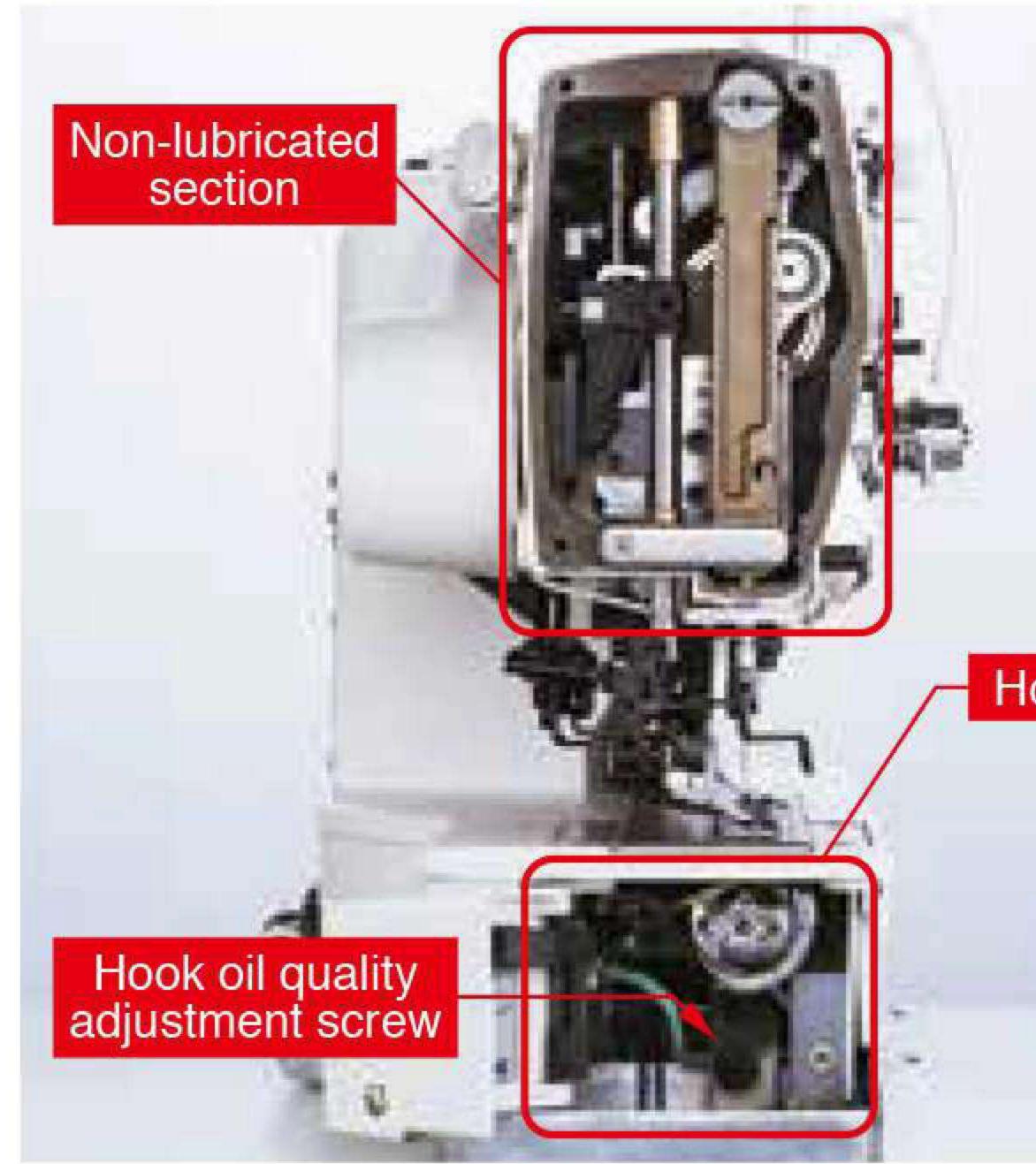
It is able to store 99 different patterns in its memory, which can be selected as desired from the operation panel.



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.

Hook section (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]



Foot pedal for standing work

- PK-57
- [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

Olothic	diting Kin	ıc,	VV	ork clamp, w	OII	Clamp loot									
	Cloth cutting	kn	ife*		Work clamp* B B					Work clamp foot *					
	Mark														
Knife		لم الم الم الم الم الم الم الم الم الم ا		For stitch width 5mm	For stitch width 6mm										
size				LBH-1790AN Option* (standard) (for knits)		LBH-1795AN LBH-1790S (standard) (standard)									
	Part No.		Mark	(Length of	clot	No. h cutting knife) > (A×B)	Part No. (Length of cloth cutting knife) (AxB)	1	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		1 1 1 1 1 1 1										
9.5mm (3/8")	B2702-047 -K00-A	\triangle	K		1 1 1 1 1 1 1 1										
11.1mm (7/16")	B2702-047 -l00					1 1 1 1 1 1 1									
12.7mm (1/2")	B2702-047 -L00-A	0	L	B1552-781-000-A (6.4~19.1mm)	0	D1508-771-K00-A (6.4~19.1mm)				D1511-771 -KA0-A		*			
14.3mm (9/16")	B2702-047 -V00		٧	<1> (0.4~19.111111) <1> (4×25mm)	0	<1> (0.4~19.11111) <1> (4×25mm)				-NAU-A <1>					
15.9mm (5/8")	B2702-047 -M00-A	\triangle	Μ		I I I I I I I		40008658 (5~120mm)	0	145-24409 (6.4~31.8mm)				40008646	0	
	B2702-047 -A00		Α		 				<3> (6×41mm)						
19.1mm (3/4")	B2702-047 -N00		Ν												
22.2mm (7/8")	B2702-047 -P00		Р	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>					
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 throwing width	Part No. (Marking: A×B				
	Standard (S)	For Knit (option)*			
5mm	40027553 (1.4×6.2mm)	40027554 (1.2×6.2mm)			
6mm	40004351 (1.4×7.4mm)	40004353 (1.2×7.4mm)			

Other option parts for knit

Part No.	Description
13782065	Hook asm.*
13782107	Hook timing gauge *

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

Designation	Part No.	Description	Description		-eature	
Non-lubricated hook	400-06345	RP hook (asm.)				
	400-06349	RP bobbin case	I BP DODDID case		on-lubricated hook, the machine dry-head machine. (In this	
	137-29660	Hook sleeve (asm.)			wing speed will be 3,300sti/min)	
	SS-8660612-TP (4 pcs.)	Screws				
	400-06340	Work clamp arm spacer	Work clamp arm spacer			
	SM-6040450-TP (3 pcs.)	Screws	Screws			
	145-23252	Work clamp foot 70		Evaluaiva ta 70mm		
	145-23401	Work clamp 70		Exclusive to 70mm		
	145-23708	Urethane work clamp 70	Selectable			
	145-24102	Flat work clamp 70			The work clamp is applicable	
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)	401-67520	Work clamp 120				
01 7 0 111111, 120111111)	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				
	SS-6060210-SP (2 pcs.)	Screws				
	G5001-198-0A0-A	Electric bobbin winder (as	sm.)			
Electric bebbie winder	400-05405	Power cord (asm.)	Power cord (asm.)		a bobbin congretaly	
Electric bobbin winder	400-53150	Tension controller (asm.)		It is a device for windin	g bobbin separately.	
	SK-3452001-SE	Wood screws				
2-pedal unit	GPK-510010B0	Pedal switch (asm.)				
for standing work	400-03493	Junction cable (asm.)	Junction cable (asm.)			

⁽installed on machine): Factory installed on machine

^{*} When you change LBH-1790AN into knitting.