





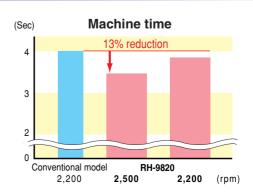
The further-improved, reliable sewing mechanism is optimally controlled by the most advanced electronic technology.

Productivity and sewing quality are combined at the highest level ever.

# The world's highest max. sewing speed 2,500 rpm enhances productivity

The maximum sewing speed of 2,500 rpm has been achieved by the adoption of an optimal machine structure for high-speed drive. The speed is significantly enhanced from the former 2,200 rpm level.

By enhancing the rigidity of the needle bar-area parts (patent pending) and having the feed mechanism and needle bar rotating mechanism servo-controlled, the operating time has been reduced, resulting in 13% reduction of the machine time compared with the conventional model.



 -01 Spec., 100 stitches, Cutting after sewing, Sewing length 22mm, Back material setting

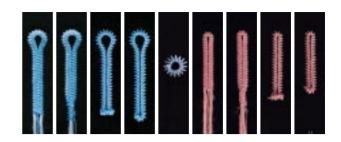
# Fine stitches are available

# Precision of stitch point has been improved

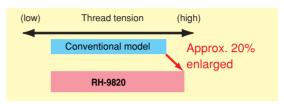
With the highly-rigid feed mechanism with servo control, stitch point is very precise and feed drifting, which is specific to electronic sewing machines, does not occur even in high-speed sewing of weighty materials. The servo control also makes home position detection unnecessary.

# Skipped stitches are reduced

The shape of the looper, the thread take-up amount and some other parts have been reviewed. Skipped stitches and insufficient thread tightening due to a change of thread tension are reduced, regardless of types of threads. The range of sewing capability has been enlarged.



## Range of sewing capability



Zigzag width 3.0 mm, Cutting after sewing, 2 pieces of polyester serge (one piece with interlining on one side) Spun yarn #40, Lower thread tension: 30g Sewing speed: Conventional model - 2,200 rpm, RH-9820 - 2,500 rpm

# Large arm pocket providing ease of operation

The arm pocket of 120 mm depth gives a sufficient space, enabling material setting smooth. It is the most suitable for sewing of vertical buttonholes and hip pocket parts. The arm shape provides a good view of the needle area, allowing operators to observe the sewing operation.

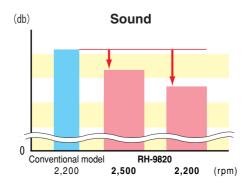




# Sewing with less noise

With thorough review of the mechanisms causing noise, quieter sewing even at higher sewing speed than the conventional model has been realized. The machine is made with a sound design gentle to ears, eliminating impact noise.

The vibration of the feed base which is transmitted to an operator is also reduced. The working environment with less operator fatigue can be materialized.



# Operation panel easy to use for everyone

The RH-9820 is equipped with a liquid crystal display (LCD) and indicates display items with icons and letters. Setting and check of sewing patterns and change of sewing modes are easy to understand and carry out.

# Display with icons and letters, easy to understand







# **Shortcut keys**

Frequently-used settings such as sewing speed and sewing length can be quickly set.



# **Multilingual display**







English

# Fine adjustment can easily be made

Fine adjustment such as cutting space and knife position compensation can be made on the LCD panel. As the items are shown with icons, operators can operate intuitively without the instruction manual.

### **Production counter**

The number of buttonholes sewn can be counted up to 999,999.

# 

# Setting with one-touch key operation



The needle is rotated to make the needle's eye face front, enabling easier threading.



The material setting position (Front/Back) can be set.



The timing of buttonhole cutting (Before sewing/After sewing) can be set.

# Cycle sewing



Up to 9 programs, each with up to 9 steps, can be stored.

# Sewing length ranges in -02 spec. are increased

In -02 spec., the range of sewing length with each gauge has been increased to 8 mm. The wider gauge ranges reduce the trouble of gauge replacement.

\*Change of the ranges L1422-L3442 is available by replacing gauge parts. (For details, please consult your place of purchase.)

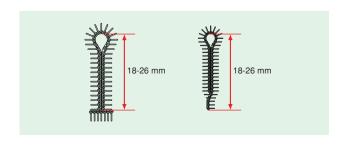
## Ranges of gauges (sewing length)



# Special specification (-02-L1826\*) in Short-cut upper & lower thread trimmer spec.

With -02-L1826 spec., one single machine supports a wide range of applications, from straight-bartack buttonholes for casual pants to taper-bartack buttonholes for jeans. Sewing length of this spec. is 18-26 mm.

\*Special specification for Chinese market



# **Easy maintenance**

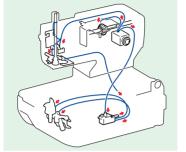
Daily cleaning and lubrication can efficiently be done in a shorter time.

# **Centralized lubrication system**

The places to supply oil have been concentrated into one. Minimum oil is automatically lubricated with wicks from the oil tank to every parts requiring lubrication, such as the areas

of the needle bar and looper base. The oil level win-

dow is laid out at the position easy to check.



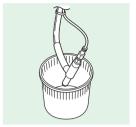
### Thread waste can be collected

The machine is equipped with a special pocket in which thread waste can gather. This prevents thread waste from littering, keeping the working environment clean.



### Eyelet cloth chips can be cleared

Cloth chips made at eyelet cutting can be cleared by air pressure.



# Easy adjustment favorable to maintenance staffs

While continuing the conventional basic adjusting method, many improvements have been made. Installation to production lines and fine adjustment of the machine can be done in a shorter time.

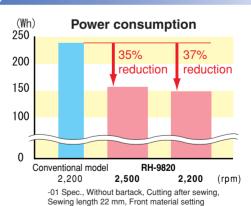
- The number of air tubes has been reduced, saving the trouble of connecting.
- Adjustment of the needle bar and the loopers can be made with the familiar, conventional method.
- An eccentric pin is adopted for the spreader. It enables adjustment without steps, making the operation easier.

# **Durability of the machine has been improved**

The rigidity of the machine arm has been enhanced. Nicking of the knife is substantially reduced by minimizing lateral movement of the hammer against the knife.

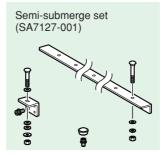
# **Economical model with low power consumption**

With the adoption of a energy-saving compact motor, electric power consumption has been lowered by more than 35% compared with the conventional model, while enhancing productivity with the improved max. sewing speed. The RH-9820 is the most energy-saving electronic eyelet buttonhole sewing machine in the market.



# Semi-submerged installation is available

By using the optional parts for semi-submerged installation, favorable operation style can be selected.





# **Environment-conscious**

Brother has established our original "Brother Green Label" for the products in conformity with ISO 14021 and JIS Q14021. The RH-9820 is certified as an environment-conscious sewing machine according to "Brother Green Label" standard, such as "Reduction of power consumption by 35% and above", "Reduction of noise by 3 dB and above" and "Use of lead-free solder for all PC boards".



Industry's top energy saving with the direct drive system
Use of lead-free solder in all PCB Significant extension of the hook's lifetime

# \*Comparison with the conventional model RH-981A

# **Options**

### Lapel device (For -00, -01 spec.)

(SA8078-001)

With this device, eyelet buttonholes and straight buttonholes can be sewn without replacing the knife and hammer. It is suitable for cycle sewing of eyelet buttonholes and a lapel buttonhole for men's jackets.



	Eyelet buttonhole	Straight buttonhole
-00	8-50mm	5-50mm
-01	8-42mm	5-42mm

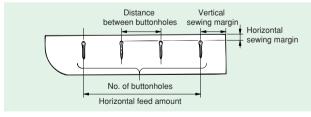
### Fly indexer (For -02 spec.)

(Standard size SA8079-001) (Large size SA8080-001) The number of buttonholes can be set and the fly can be fed automatically. This device provides speedy sewing of fly buttonholes.



	Standard size	Large size	
Buttonhole	38.1 mm, 50.8 mm,	38.1 mm, 50.8 mm,	
spacing	44.45 mm	44.45 mm, 57.15 mm	
No. of buttonholes	2-4 2-6		
Vertical sewing	L1422, L1826, L2230: 8-23 mm		
margin	L2634, L3442: 0-11 mm		
Horizontal sewing margin	31.5-41.5mm		
Max. overall feed amount	152.4mm 285.75mm		

When sewing with buttonhole spacing out of the given values, please modify the cloth feed bar F assembly (option) for use. The number of buttonholes 2 to 9 is possible.



### Gauge parts set (For -02 spec.)\*1

	Sewing length	Part code
L1422	14-22mm	SA7750-001
L1826	18-26mm	SA7771-001
L2230	22-30mm	SA7752-001
L2634	26-34mm	SA7756-001
L3442	34-42mm	SA7764-001

### Replacement parts set (For -01, -02 spec.)\*1

	Part code	
-01 → -02	SA7773-001	
-02 → -01	SA7784-001	

<sup>&</sup>lt;sup>k1</sup> For details, please consult your place of purchase.

### Thread nipper device set

(SA7931-001)

Thread cast-off at sewing start can be prevented, providing fine finish with quality stitches.



### Thread breakage detector

(SA8077-001)

The sensor of the device detects upper thread breakage.



### Waist belt presser

(For L26 spec. SA7777-001) (For L30 spec. SA7781-001) When sewing a waist-belt part having different thicknesses, these work clamps securely holds the article according to its thicknesses. Flopping of the cloth can be prevented.

### Treadle unit\*2 (SA6567-101)

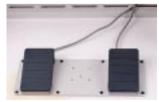
The operations of work clamp lowering and machine start can be made with a treadle. The speedy operation is suitable for buttonhole sewing of waist belt requiring high productivity.

Please use a treadle and a connecting rod on the market.



### Two-pedal foot switch\*2 (S42838-301)

The operations of work clamp lowering and machine start can separately be made by footoperated switching. It is suitable for buttonhole sewing of hip pockets requiring accurate material positioning.



### Hand start switch\*2 (SA7121-001)

The operations of work clamp lowering and machine start can separately be made by handoperated switching. It is useful for standing operation.



### **Exchange parts set (For circular stitching buttonhole)**

(For -00 spec. SA7804-001) (For -01 spec. SA7808-001)



<sup>\*2</sup> The standard switch is different according to the destination.)

# **Specifications**

# RH-9820-

Specifications		-00	-01	-02	
				L2230	L1826*1
Thread	Upper thread	Long thread cut	Long thread cut	Short th	read cut
trimmer	trimmer				
	Lower thread	None	Long thread cut	Short th	read cut
	trimmer				
Main app		Ladies' wear	Men's wear, casual wear	Jeans	Jeans, trousers
Other ap	plications	Men's wear, casual wear,	Ladies' wear,		
		jeans, trousers	jeans, trousers	Allel	
Features		Only the upper thread is cut by the	All the threads are cut long by the thread trimmers. The long thread	thread trimmers	re cut short by the
		thread trimmer. Buttonholes up to 50 mm long can be sewn.	ends can be securely held in the	trouble of manu	
		30 min long can be sewn.	subsequent process. It is suitable		otion of the thread.
			for cases that require accurate	reduces consump	nion of the thread.
			short end or manual trimming.		
Sewing s	shape				# # # ·
	·				Y#Y#
					**************************************
			7 1117 1117	+2	1 +2
Sewing le	ength	Eyelet buttonhole : 8-50mm	Eyelet buttonhole : 8-42mm	22-30 mm*2	18-26 mm*2
		Straight buttonhole : 5-50mm	Straight buttonhole : 5-42mm	L1422 (14-22 mm)*3	L1422 (14-22 mm)*3
				L1826 (18-26 mm)*3	L2230 (22-30 mm)*3
				L2634 (26-34 mm)*3	L2634 (26-34 mm)*3
Longth of wa	rl, alama (Ctandard)	20*		L3442 (34-42 mm)*3	L3442 (34-42 mm)*3
	ork clamp (Standard) nammer (Standard)	30mm		30 mm 24 mm	26 mm 20 mm
	ammer (Accessory)	22mm		28 mm	24 mm
Sewing s	, ,,	30mm		20 111111	24 111111
Stitch pite		1,000-2,500rpm 0.5-2.0mm			
Zigzag w		1.5 - 5.0 mm (Up to 4.0 mm in mechanical, up to 5.0 mm with zigzag width compensation)			
	th (Factory setting)	2.5mm 3mm			
	rtack length	0-20mm			
-	work clamp	12 mm as standard (Available up to 16 mm) 16mm			
Starting r	method	Foot switch (Treadle type, Two-pedal type), Hand switch (Two-lever type)			
Feed me		Intermittent feed by 3 pulse motors (X, Y, $\theta$ )			
Needle*4		DOx558 Nm80 - Nm120 (SCHMETZ)			
Needle(F	actory setting)*5	DOx558 Nm100 DOx558 Nm90 DOx558 Nm110			
	es supported	Japanese, English, Chinese, German, French, Spanish, Italian, Portuguese, Turkish and Indonesian			
-	tion panel				
Safety ed		Emergency stop function and built-in automatic stopping device activated by safety circuit in case of trouble			
	aft motor	AC servo motor 550W			
Air press		Main regulator: 0.5 Mpa, Hammer pressure regulator: 0.4 MPa			
Air consu	imption	43.2 l/min. (8 cycles/min.)			
Weight	Weight Machine head: Approx. 120 kg., Operation panel: Approx. 0.6 kg., Control box: 14.2-16.2 kg. (depending on the destination)  Power supply / Power consumption Single phase 100V/200V, 3-phase 200V/220V/380V/400V, 400VA				
	ecification for Chinese	-	: 100 v/200 v, 3-phase 200 v/220 v/380 v/	400V, 400VA	

<sup>\*1</sup> Special specification for Chinese market

Product specifications are subject to change for improvement without notice. Please read instruction manual before using the machine for safety operation.

R.P. CHINA

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<sup>\*1</sup> Special specification for Chinese market
\*2 When the thread trimmers are not operated, sewing length is 5-42 mm..
\*3 Change of the ranges L1422-13442 is available by replacing gauge parts. (For details, please consult your place of purchase.)
\*4 For Chinese market: DOx558 - NY2#12-#16 (ORGAN)
\*5 For Chinese market: -00: #16, -01: #14, -02: #18