

**JUKI®**

Computer-controlled, High-speed, Single-thread Chainstitch,  
Button-neck-wrapping Machine

# AMB-289



**AMB-289**

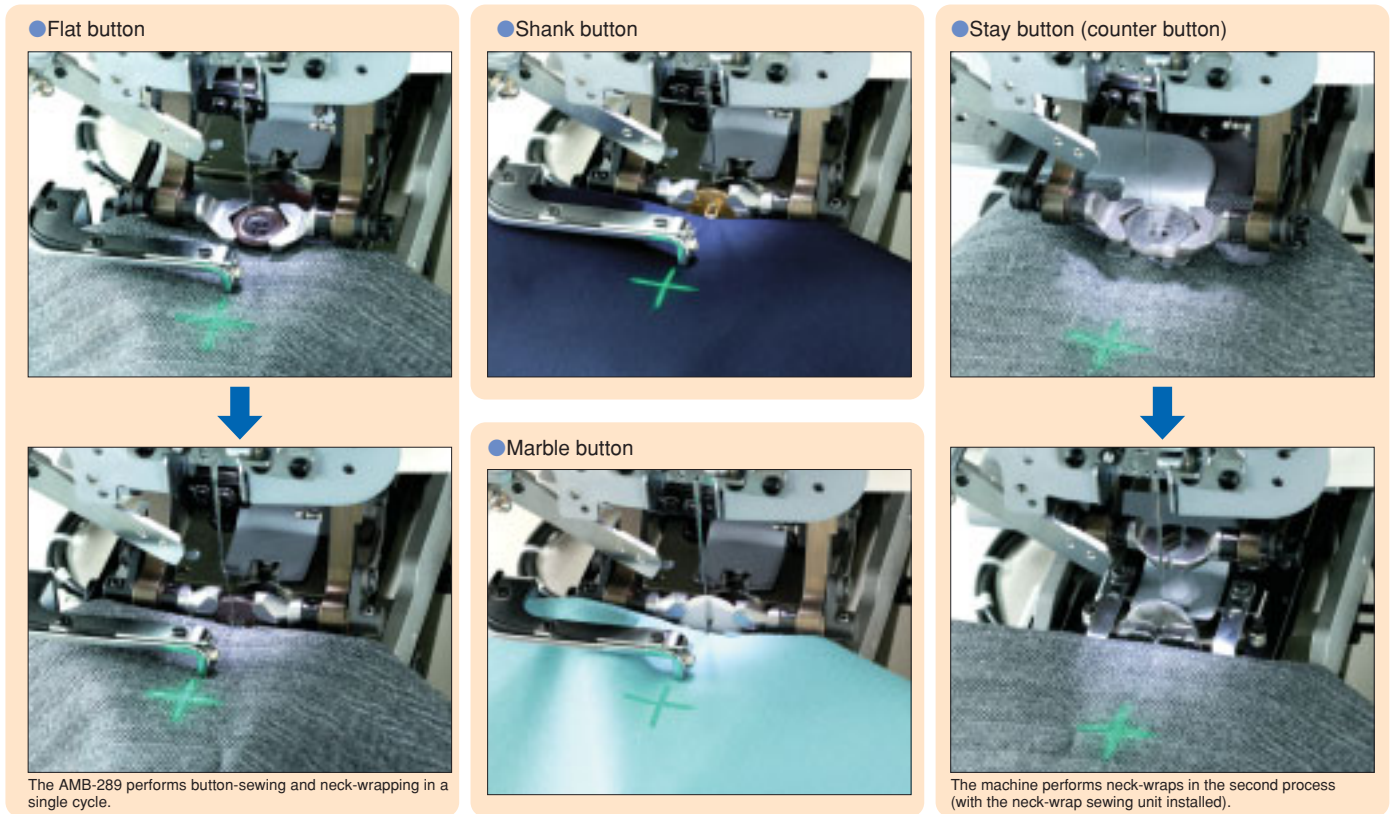
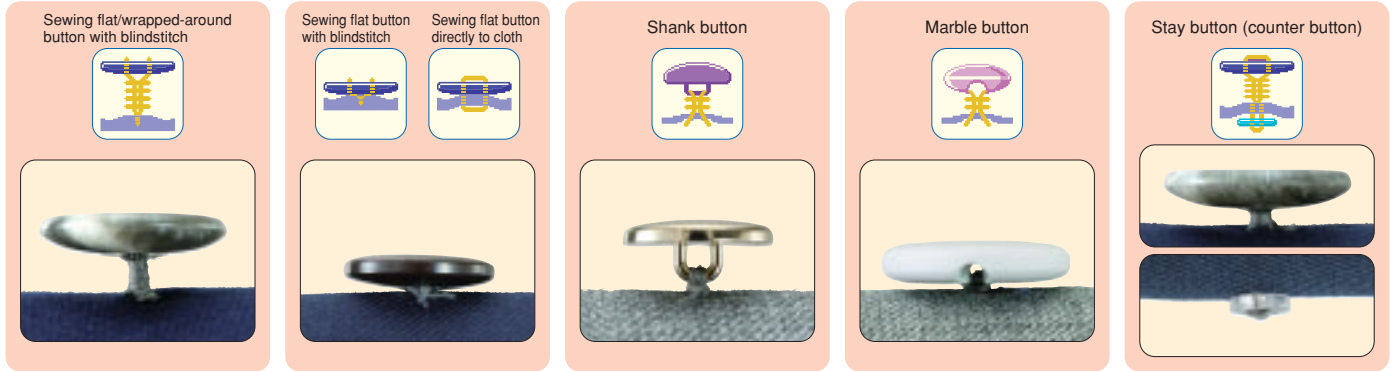
(Table stand is optionally available.)

# AMB-289

The machine comes with a newly developed active-tension system ideal for the careful sewing of beautiful seams.

This single machine can also sew flat buttons, shank buttons, marble buttons and stay buttons (counter buttons).

- The stay button (counter button) sewing capability is a vital addition to the impressive application range of the AMB-289.
- Sewing methods and sewing shapes can be easily reset on the operation panel.
- In combination with the independent-drive needle-throwing method, the adoption of the Y-feed on the body side and X-Y feed on the button-sewing side enables the AMB-289 to sew patterns with variable numbers of buttonholes (such as four-holed front buttons and two-holed stay buttons).



The cycle time has been reduced to bolster productivity.

- The sewing speed has been enhanced to dramatically increase productivity.
- As compared with manual button sewing, the AMB-289 achieves productivity as high as 5 times.

### Comparison of productivity

(Condition) 4-holed button sewing  
 Button sewing: 8 stitches × 2  
 Neck wraps: 10 stitches  
 Hours of work: 8 hours  
 Allowance rate: 25 %

### AMB-289

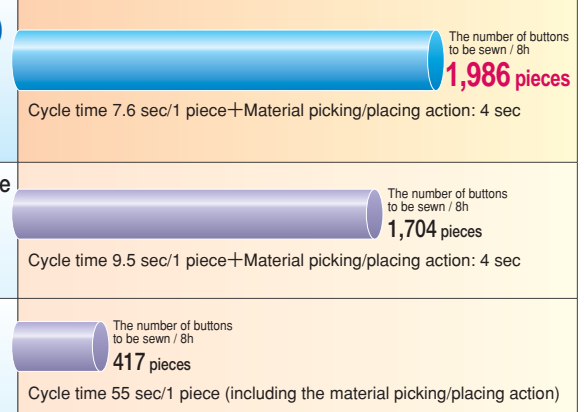
#### Normal sewing speed

Button sewing speed 1,000rpm  
 Neck wraps speed 1,500rpm

#### Conventional machine AMB-189NR

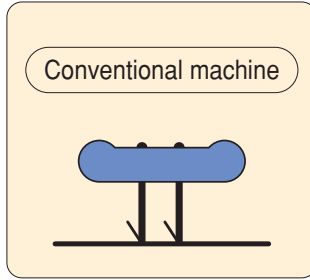
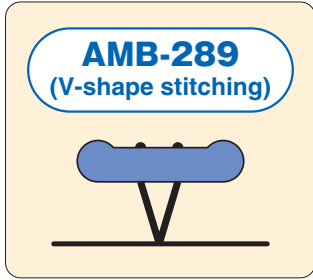
Normal sewing speed  
 Button sewing speed 740rpm  
 Neck wraps speed 740rpm

#### Manual button sewing



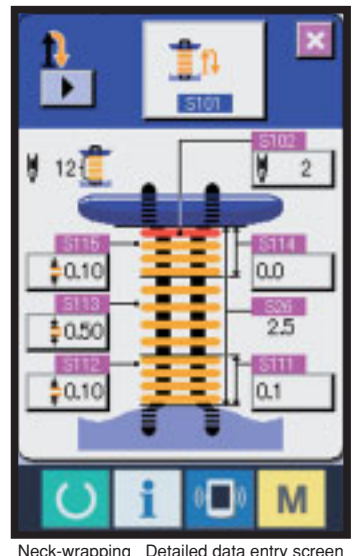
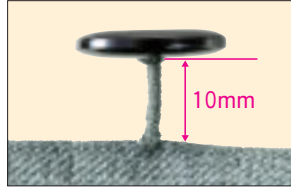
## The AMB-289 promises upgraded-quality neck-wrapping.

- The AMB-289 finishes four-holed buttons with a hand-stitched appearance (V-shape stitching) by fixing the tucking position at a preset location. This results in the sewing of a neat seam on the wrong side of the garment and neck-wrap knots at a single location. Seam quality is further enhanced as a result.



- The neck-wrap data can be finely adjusted via the entry screen of the operation panel to enhance the sewing quality. The distribution of neck wraps on the upper and lower parts of the button neck, a crucial point in determining the quality of neck-wrapping, can be adjusted to prevent buttons and button necks from becoming unstable and tilting.

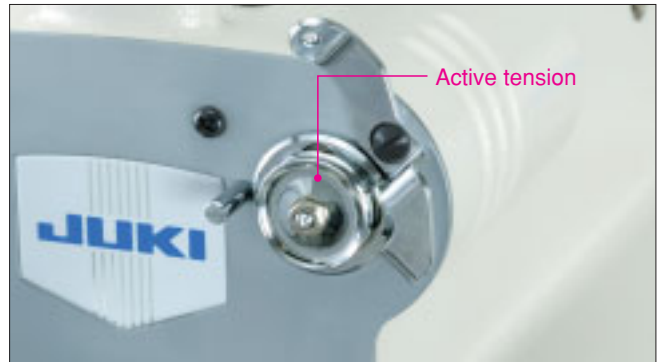
- The neck-wrapping height can be adjusted by up to 10mm.



Neck-wrapping Detailed data entry screen

## Newly developed active tension (electronic thread tension control system)

- The newly introduced active tension system further improves responsiveness and allows delicate tension setting when the user changes fabrics.
- Thread tensions for button sewing and neck wrapping can be separately set on the operation panel.
- The machine stores sewing conditions in memory on a pattern-by-pattern basis. Required sewing conditions can be exactly reproduced for every pattern.

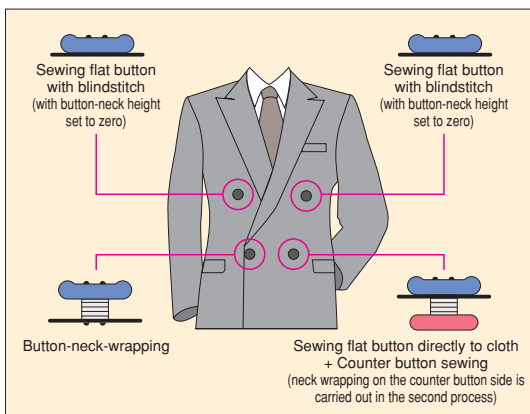


## Superb functions for improving seam quality

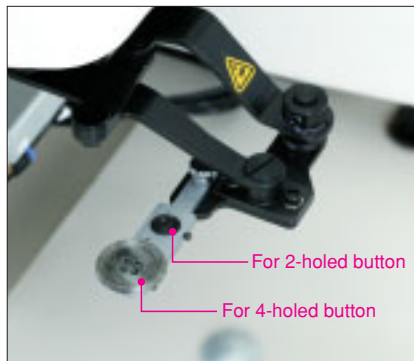
- The remaining length of needle thread can be adjusted according to the type of material or thread to be used. It effectively prevents thread from slipping off the material at the start of sewing.
- The AMB-289 does not require the use of exclusive thread intended for button sewing. General-purpose cotton threads and spun threads are both applicable, depending on the type of material. A full range of thread counts from #60 to #30 can be applied. This ensures use for diverse processes.
- The thread-trimming position is set to reduce the remaining length of thread on the material to a minimum.
- The machine incorporates a thread-fray prevention function that ensures the tying of strong and reliable knots at the last stitch.
- The number of stay stitches, which increases strength of button sewing stitches, can be set on the operation panel within the range of 0 and 3 stitches.
- The tucking depth is increased to 5mm to ensure a consistent tucking depth in soft materials such as knits.
- The feed accuracy is as high as 0.1mm. This promises an accurate needle entry position and tucking depth.

## Cycle sewing

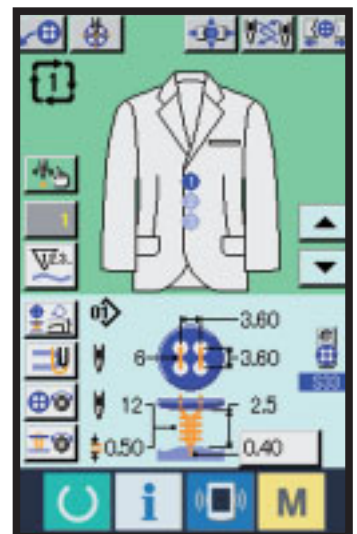
- The machine sews buttons on a double-breast suit, a garment that requires the sewing of different types of buttons, in a continuous manner.
- Cycle sewing data can be set/edited with the sewing item graphically displayed on the operation panel (the number of buttons, button sewing locations, and sewing order of buttons).
- The button loader can feed two types of buttons in a single sewing cycle.



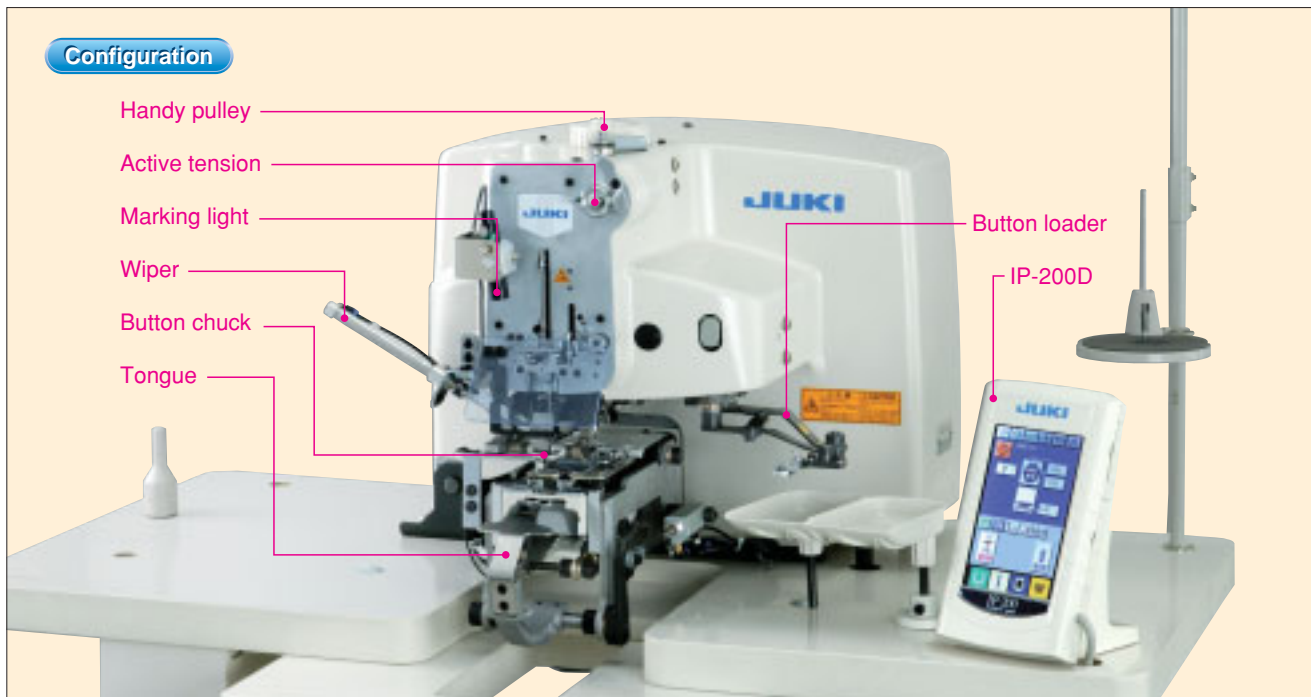
Example of combination of button carriers



Button loader



Cycle sewing Data entry screen



## The machine comes with new functions to improve workability.

### Dramatically reduced oil stains

- As the machine requires no lubrication, oil spatters and all other lubrication-related troubles are eliminated. Sewn garments have dramatically fewer oil stains as a result.

\*Periodical greasing is required for some of the mechanical structures.

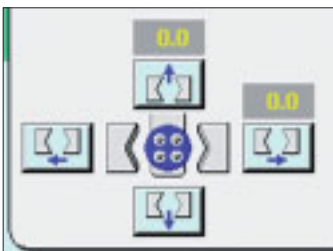
### Dramatically reduced vibration and noise

- The adoption of the needle-throwing mechanism dramatically reduces the vibration and noise usually produced during the neck-wrapping procedure.

### The machine is provided as standard with a button loader.

- The machine is provided as standard with a button feeder that lets the operator place the next buttons to be sewn during overlapping-style work.

- The button-delivery position between the button loader and button chuck can be easily adjusted on the operation panel. No tools are required.



Setting of longitudinal and lateral adjustments of button chuck.

### LED now adopted

- The AMB-289 is provided as standard with an LED-type handy light and marking light. The sewing area is now brighter and more viewable than it would be under the incandescent light of a conventional machine. LED light also offer the advantage of a longer service life. The machine is optionally provided with a marking light for sewing flat buttons directly to cloth.

### Convenient handy pulley

- The handy pulley is mounted on the top of head. This makes it easy to check the needle entry point.

### The button loader gauge for the conventional model can also be used with the AMB-289.

- The set pins and four-holed and two-holed button carriers used with the AMB-189NR (the conventional model provided with a button loader) can also be used with the AMB-289.

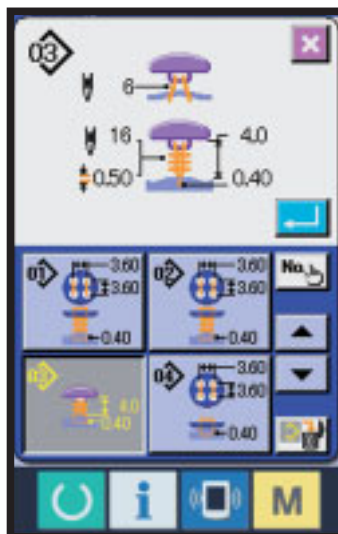
\*The AMB-289 requires dedicated set pins for shank buttons, marble buttons, and metallic buttons (optional).

### Safety design

- The safety-first design makes it impossible to start the machine without buttons set on the button chuck.
- If the machine head tilts while the power ON, the safety switch automatically shuts down the machine even when the pedal or knee switch is pressed.

## The color panel IP-200D provides excellent operability.

- The operation panel is a touch-sensitive type LCD. The clear graphical displays make it much easier for the operator to set or modify sewing data.
- A SmartMedia card can be used to store and transfer sewing data. This makes it possible for sewing machines at one or more factories to share data.



Shank buttons  
Data selection screen

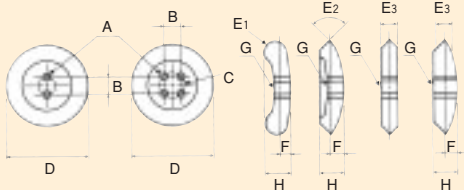


SmartMedia card



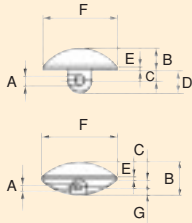
## Applicable button requirements

### Specifications for 4-holed and 2-holed buttons



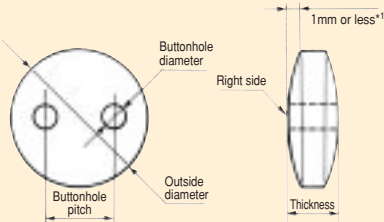
A	Buttonhole diameter	Needle: $\phi$ 1.5mm or more when using #12~#16 Needle: $\phi$ 2mm or more when using #12~#18
B	Distance between buttonholes	1.5~6.0mm
C	Buttonholes	All holes must be located equidistant from the center of each button
D	Outside diameter	Min. $\phi$ 8mm Max. $\phi$ 32mm Line height within $\pm$ 0.25mm
E1	Button with a round edge	R(roundness) of button edge must be a 3mm radius or less
E2	Button with a V-shaped edge	Within 120° angle
E3	Button with an angular edge	The thickness must be 5mm or less
F	Bulge	5mm or less
G	Area around buttonholes	Must be smooth
H	Thickness	8mm or less

### Specifications for shank and marble buttons



A	Buttonhole diameter	$\phi$ 1.5mm or more
B	Thickness	6.8mm or less
C	Distance from the bottom of the button head to the center of the buttonhole	Shank button: 1~6mm Marble button: 1.5mm or more
D	Length of shank	8mm or less
E	Straight section on the side of button	3.5mm or less
F	Outside diameter	Min $\phi$ 8mm, Max. $\phi$ 32mm
G	Distance from the center of the hole to the button edge	2mm or less

### Specifications for stay buttons

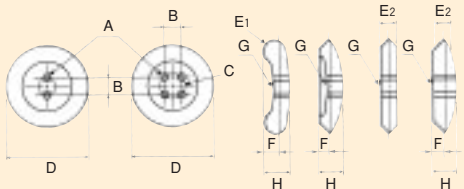


Type	Outside diameter	Buttonhole diameter	Buttonhole pitch	Thickness
Type A	8.5mm	2.5mm	3.1mm	2.0mm
Type B	10.2mm	3.2mm	4.0mm	2.0mm

(commedable dimension)

\*1 Requires the use of stay buttons with a projection height of 1mm or less on the top.

### Specifications for counter buttons



A	Buttonhole diameter	Needle: $\phi$ 1.5mm or more when using #12~#16 Needle: $\phi$ 2mm or more when using #12~#18
B	Distance between buttonholes	2.0~5.0mm
C	Buttonholes	All holes must be located equidistant from the center of each button
D	Outside diameter	Min. $\phi$ 8mm Max. $\phi$ 25mm Line height within $\pm$ 0.25mm
E1	Button with a around edge	R(roundness) of button edge must be a 2mm radius or less
E2	Button with an angular edge	The thickness must be 5mm or less
F	Height of button edge	2mm or less
G	Area around buttonholes	Must be smooth
H	Thickness	5mm or less

## List of button carrier

### For 4-holed button

### For 2-holed button

1			2			3			4			5		
Mark	Part No.	Dimension(mm)	Mark	Part No.	Dimension(mm)	Mark	Part No.	Dimension(mm)	Mark	Part No.	Dimension(mm)	Mark	Part No.	Dimension(mm)
A	17856600	a 2.0 b 1.0	D	17856907	a 2.8 b 1.2	K	17857608	a 4.0 b 1.4	M	17858002	a 2.0 b 1.0	U	17858705	a 4.0 b 1.4
B	17856709	a 2.4 b 1.2	E	17857004	a 2.8 b 1.4	K1	17857707	a 4.0 b 1.8	N	17858101	a 2.4 b 1.2	V	17858804	a 4.2 b 1.4
C	17856808	a 2.6 b 1.2	F	17857103	a 3.0 b 1.2	L	17857806	a 5.0 b 1.8	P	17858200	a 2.6 b 1.2	W	17858903	a 4.4 b 1.4
			F1	17857202	a 3.0 b 1.4				Q	17858309	a 2.8 b 1.2	X	17859000	a 4.6 b 1.4
			G	17857301	a 3.2 b 1.4				R	17858408	a 3.0 b 1.2	Y	17859109	a 4.8 b 1.4
			H	Standard 17857400	a 3.4 b 1.4				S	17858507	a 3.2 b 1.4	Z	17859208	a 5.0 b 1.4
			J	17857509	a 3.6 b 1.4				T	Standard 17858606	a 3.4 b 1.4			

Provided as standard

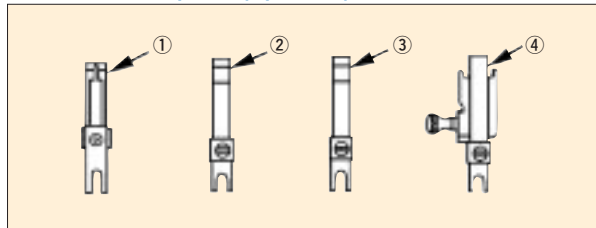
## Specifications

Model name		AMB-289
Stitch type	Single-thread chainstitch	
Sewing speed	Max. sewing speed	1,800rpm (neck-wrapping), 1,200rpm (button sewing)
	Normal sewing speed	1,500rpm (neck-wrapping), 1,000rpm (button sewing)
Application	Sewing of various button types (buttons to be sewn by machine)	
Button size	Sewing button without neck-wrapping : $\phi$ 8~ $\phi$ 38mm Sewing button with neck-wrapping : $\phi$ 8~ $\phi$ 32mm Counter button : $\phi$ 8~ $\phi$ 25mm	
Display screen for setting basic shape-setting	Distance between buttonholes: 1.5~6.0mm (in increments of 0.1mm) Height of neck-wrap: 0, 1.5~10.0mm (in increments of 0.1mm) Number of cross-over stitches: 2~64 (in increments of 2)	
Needle	ORGAN SM $\times$ 332EXTLG-NY (standard needle), (at the time of delivery #14) #12~#18	
Thread	SPUN #60~#30, Cotton thread #60~#30	
Thread take-up	Needle thread take-up	
Needle bar stroke	60.0mm	
Needle throwing system	Stepping motor	
Feed system	Stepping motor	
Auto-lifter	Stepping motor	
Cloth feeding system	Pneumatic	
Thread trimming system	Pneumatic	
Thread tension adjustment	Active tension (Newly developed electronic thread tension control system)	
Number of data that can be input	Max. 99 patterns	
Number of cycle stitch patterns	The number of registered patterns: 20 (30 patterns for one cycle)	
Operation panel	Color LCD touch panel: IP-200D	
Button loader	Provided as standard	
Product count	Provided as standard (up/down system)	
Lubrication	No lubrication * Periodic greasing is required.	
Power requirement and power consumption	Single-phase 200~240V, 3-phase 200~240V/400VA	
Compressed air and air consumption	0.5MPa(5kgf/cm <sup>2</sup> ), 11dm <sup>3</sup> /min	
Dimensions	600mm(W) $\times$ 600mm(D) $\times$ 400mm(H)	
Weight	Machine head: 65kg, Control box: 13kg	

## Options

Part No.	Description
40021446	Marking light asm.
40021447	Counter button B asm. (gauge set)
40024087	Movable safety plate asm.

## Button set pins (options)



No.	Part No.	Description
1	17974056	For marble button
2	17974254	For shank button ( $\phi$ 1.5~ $\phi$ 2.0mm)
3	17974452	For shank button ( $\phi$ 2.0mm or more)
4	40023428	For metallic button

## Button chuck

Part No.	Description	Outside diameter of button that can be used	Remarks
40020932	Button chuck (small)	$\phi$ 8~ $\phi$ 16mm	Accessories
40020931	Button chuck (medium) (standard)	$\phi$ 14~ $\phi$ 25mm	Installed on machine head
40020930	Button chuck (large)	$\phi$ 25~ $\phi$ 38mm	Accessories

## When you place orders

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

[Machine head]

**AMB289**

Option	Code
Not provided	
With movable safety plate	A

[Control box]

**MC640**  **IP200D**

Power supply		Code	Operation panel	Code
3-phase	200~240V	E	IP-200D for AMB-289	IP200D
	200~240V	K		
Single-phase	EU(CE) 200~240V	N		
	(not provided with power switch)			

● To order, please contact your nearest JUKI distributor.



### JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct  
 ① the technological and technical research, the development and design of the products in which the environmental impact is considered.  
 ② the conservation of the energy and resources, and the recycling in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.

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\* 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 catalog is printed on recycle paper.