



Boosting absolute reliability and brand recognition in the market, the BAS-300G and BAS-311G have taken the industry lead in this market. With the world's top-class sewing speed and enlarged sewing area, they became more attractive as a new model BAS-311H.

Specifications/

BAS-311H-0

3	Application	
5	Medium-weight materials	S
7	Heavy-weight materials	A
	Seatbelt	
	Work clamp	
	Motor-driven work clamp	
	Pneumatic work clamp	

BAS-311H	
Stitch formation	Single needle lock stitch
Max. sewing speed	2,800 sti/min*1
Sewing area (X-Y)	150mm×100mm
Feed mechanism	Intermittent feed,pulse motor drive
Stitch length	0.05~12.7mm
No. of stitches	500,000-stitch internal memory*2
Max. no. of stitches	20,000 stitches (per program)
Work clamp lift method	Motor-driven work clamp specifications: Pulse motor drive method Pneumatic work clamp specifications: Pneumatic method
Work clamp height	Motor-driven work clamp specifications: Max.25mm Pneumatic work clamp specifications: Max. 30mm
2-step work clamp	Motor-driven work clamp specifications: Integrated-type work clamp Pneumatic work clamp specifications: Separate-type work clamp
Intermittent presser foot lift amount	22mm
Intermittent stroke	2~4.5mm, 4.5~10mm or 0 (Default setting: 3mm)
Hook	Double-capacity shuttle hook (Standard shuttle hook : Option)
Wiper device	Standard equipment
Thread trimmer	Standard equipment
Data storage media	Internal memory(Flash memory), SD card*3
Motor	AC servo motor 550W
Weight	Machine head: Approx. 88kg, Operation panel: Approx.0.4kg, Control box: Approx. 9kg(Differs depending on destination)
Power supply	Single phase 100V/220V, 3-phase 200V/220V/380V400V 400VA (For single-phase 100V and 3-phase 380V/400V, the trans box is required.)
Air pressure/consumption	0.5Mpa 1.8 l/min

- Optional parts/**
- Needle cooler *4 <SA5559101>
 - Thread wiper set (Pneumatic type) *4 <SA5575101>
 - Inner clamp device *4 <SA7189101>
 - Thread breakage detector <SA5193101>
 - Triple pedal foot switch <SA6495101>

Peripheral equipment/ •Sewing data programming software PS-300B

*1 When sewing at a sewing speed of 2,800 sti/min, set the stitch length to 4mm and under.
*2 The number of data items and stitches that can be stored will vary depending on the number of stitches in each program.
*3 No guarantees of operation can be given for any media.
*4 This device requires the optional solenoid valve set.



RoHS Compliant

BAS-311H is compliant with the RoHS Directive(the restriction of the use of certain hazardous substances in electrical and electronic equipment) which came into effect in the EU in July 2006.



Brother has established voluntary environmental standards for products and created the "Brother Green Label". BAS-311H is certified as an environment-conscious sewing machine according to the "Brother Green Label" standard.



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www.brotherearth.com

Please read instruction manual before using the machine for safety operation.
-Product specifications are subject to change for improvement without notice.
-Photographs are for illustration purpose. They may not represent actual operating conditions and may display optional parts.

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BAS-311H 150mm x 100mm

Direct Drive Programmable electronic pattern sewer with cylinder bed

With the world's top-class sewing speed, this machine provides high and stable sewing quality while achieving energy savings. The enlarged sewing area enables for a wide range of materials and applications.

- High and stable sewing quality
- Enlarged sewing area to 150mmx100mm
- High productivity with max. sewing speed of 2,800sti/min
- User-friendly operation panel
- Environment-conscious



Flexibility & Accuracy

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With the world's top-class sewing speed, this machine provides high and stable sewing quality while achieving energy savings. The enlarged sewing area enables for a wide range of materials and applications.

1 With the World's Top-class Sewing Speed of 2,800sti/min, High Quality Sewing Can Be Produced.

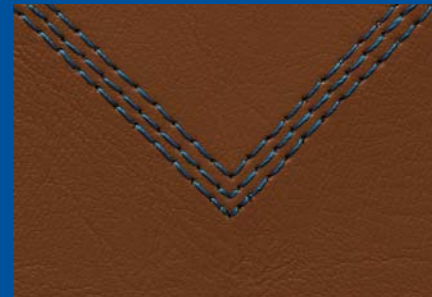
Achieving High Productivity

With the adoption of a Brother-developed direct drive motor, the BAS-311H achieved the world's top-class sewing speed of 2,800sti/min. This enhances productivity with quick starting and stopping.

*When sewing at a sewing speed of 2,800sti/min, set the stitch length to 4mm and under.

Beautiful and High Sewing Quality

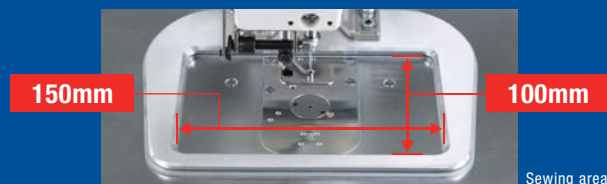
With its accurate stitch point even at high speed, the BAS-311H provides high quality stitching exactly the way it is programmed. The high-rigid feed mechanism realizes high-precision and stable stitching even with high speed or heavy material sewing.



Sewing sample

2 Sewing Area is Enlarged to 150mmx100mm

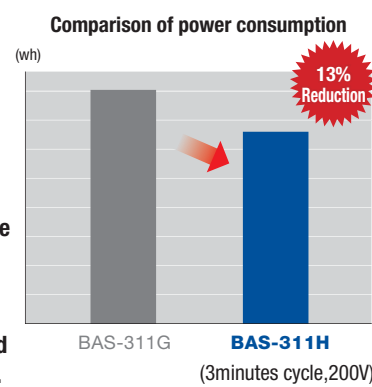
The sewing area is enlarged 20mm in X direction(width), compared to the previous model BAS-311G. It enhances automation from a lock stitch process for wide range of materials and applications.



Sewing area

3 High Energy Saving

The power consumption has been reduced at 13% less than the previous model BAS-311G, which had been manufactured as the industry's top-class energy saver. This machine is the programmable electronic pattern sewing machine with the lowest power consumption among this sewing-area class models in the market, while realizing high-speed sewing and strong needle penetration force.



4 Great Needle Penetration

Powerful motor (550W) outputs large amounts of torque even at slow speeds so that strong needle penetration force can be obtained. If the needle penetration resistance increases, vibration control (intermittent impact) automatically increases the penetration force.

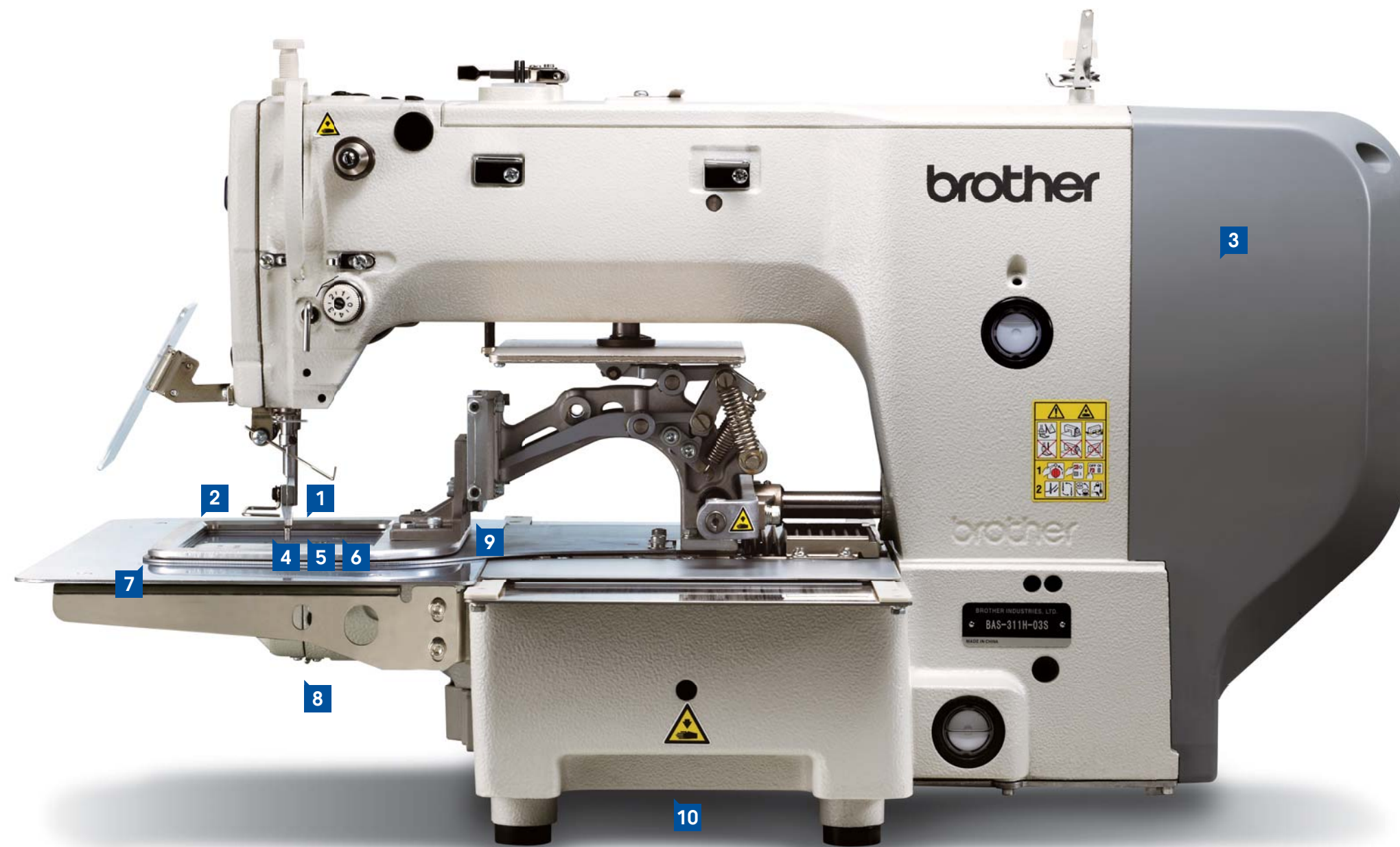
5 Uniform and stable thread tightness

It realized stable thread tightening at low tension sewing and enlarged the range of balanced thread tensions. Setting of the suitable height of the presser foot for the thickness of the material can be set on the operation panel or in a program. Excessive or insufficient pressing by the presser foot can be prevented, enabling a finish with uniform thread tightening.



6 Smooth and Beautiful Stitches with A Minimum Resolution of 0.05 mm

Since the data is resolved at 0.05 mm per pulse for the feed, slanted lines and curves are accurately sewn with beautiful finishes. Also, a simple single point embroidery motif can be sewn, and embroidering on heavy materials, which is not easy with a general embroidery machine, is also possible.



7 Easy and Accurate Positioning of Materials

You can select a desired work clamp lowering operation from three patterns by changing memory switch settings (Two-step lowering, One-step lowering and Analog lowering). By selecting the optimal work clamp height, quick and accurate positioning of materials can be made.

*The default setting is two-step lowering.
*This feature is only solenoid type.



8 Simple Adjustment

The driver phase can be adjusted from the side without tilting the sewing machine. The needle guard also can be adjusted at one time.



9 Simple and Easy Sewing Pattern Change

Work Clamp Can Be Replaced Quickly and Accurately

Simply by loosening the two screws, the work clamp can be replaced quickly. It can also be installed accurately by using the positioning pins.



Feed Plate Can Be Replaced Accurately

When replacing the feed plate, stitch data can be easily and accurately aligned with the feed plate by aligning the reference holes of the needle plate and the feed plate.



10 Ensure the Safety with Shock Absorber

The shock absorber is equipped in order to ensure the safety during maintenance when the machine head is tilted back.



The operation panel is designed to be user-friendly and to improve the ease of operation.



--- Digital tension is an option.

Application Examples



Label Attaching



Velcro Attaching



Leather Case
(Smartphone case etc)



Key Ring

In addition, decorative stitching for shoes etc...

Easy Sewing Data Creation with Programmer PD-3000A

Sewing data can easily be created with a large color LCD. Sewing data management is easy because sewing data image can be displayed, copied and moved easily. 11 languages are supported as display language.

*The programmer is an optional product.

Equipped with a USB port, it became more convenient.

