

Direct Drive

# Programmable electronic pattern sewer with cylinder bed

**BAS-342G**

300×200mm

- Beautiful pattern stitching, faithful to sewing data
- Max. sewing speed of 2,700 rpm (with stitch length 3.5 mm)
- Strong needle penetration force
- Economical operation with low power consumption
- Easy positioning of materials with two-step lowering work clamp



PD-3000



*The world's highest sewing speed and beautiful stitches with high-speed sewing have been realized. The machine provides high sewing quality and enhanced productivity, while achieving energy savings.*

## ✓ Producing beautiful pattern stitches

With its accurate stitch point, the machine can perform beautiful stitching for paralleled lines and design topstitches.

With the adoption of the high-rigid feed mechanism with servo control, high-precision pattern sewing is available and feed drifting, which is specific to electronic sewing machines, does not occur even in high-speed sewing or weighty material sewing.

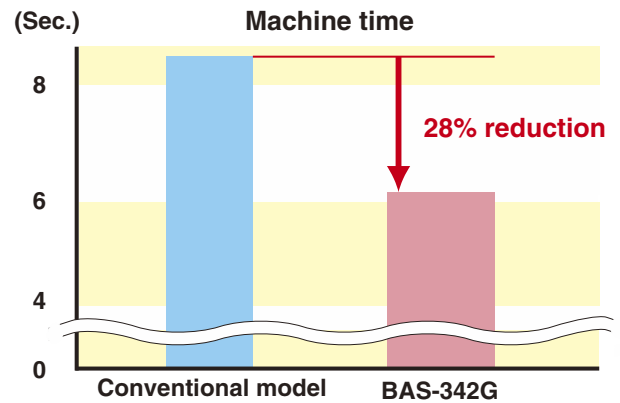


## ✓ Max. sewing speed of 2,700 rpm (with stitch length 3.5 mm)

The high-speed sewing at 2,700 rpm with the stitch length of 3.5 mm has been realized. With the adoption of Brother's original direct drive motor, starting and stopping of sewing is also quicker. The machine time has been reduced by approximately 28% compared with the conventional model and thus the productivity is enhanced.

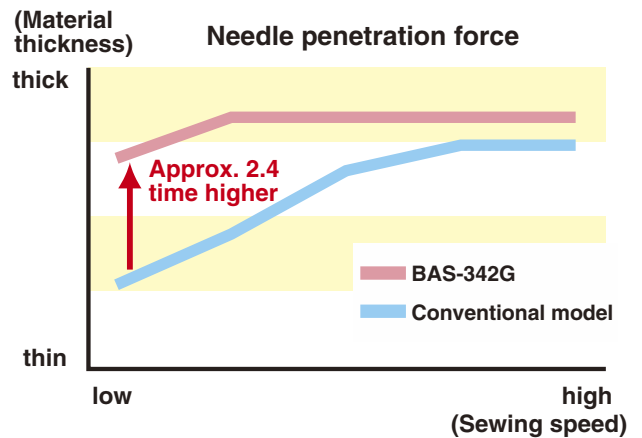
[Condition of measurement]  
 Sewing pattern: Rectangle (250 × 150 mm)  
 Stitch length: 3.5mm  
 Sewing speed: 2,000 rpm (Conventional model\*)  
 2,700 rpm (BAS-342G)

\*With the conventional model (BAS-342F), the highest sewing speed with the stitch length of 3.5mm is 2,000 rpm, while the max. sewing speed is 2,500 rpm.



## ✓ Strong needle penetration force

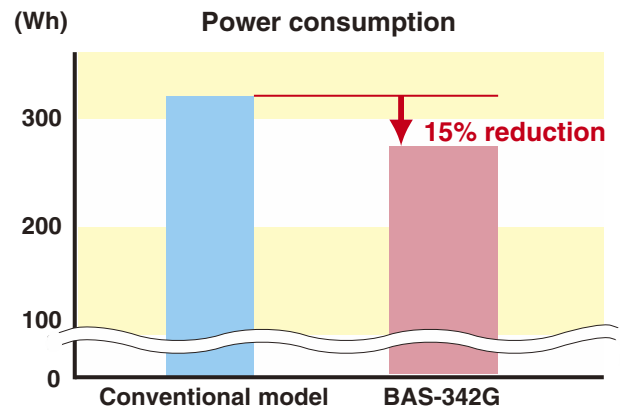
The driving motor of the machine is more powerful (550W) than that of the conventional model. Strong needle penetration force is available even with low-speed sewing and comfortable sewing is possible with heavy materials.



## ✓ Low power consumption

The energy-efficient compact motor is employed in the direct drive mechanism that reduces power transmission loss. The electrical power consumption has been reduced by approximately 15% compared with the conventional model. The 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.

[Condition of measurement]  
 Sewing pattern: Rectangle (250 × 160 mm)  
 Stitch length: 2 mm  
 Sewing speed: 2,500 rpm



## Easy and accurate positioning of materials

By setting the work clamp operation to two-step lowering, the work clamp can be lowered to pause at an intermediate position and then lowered to the lowest position. By setting an optimal height for the intermediate position, quick and accurate positioning of materials is possible. This reduces additional clamping operations due to incorrect positioning of the material, shortening the total cycle time.



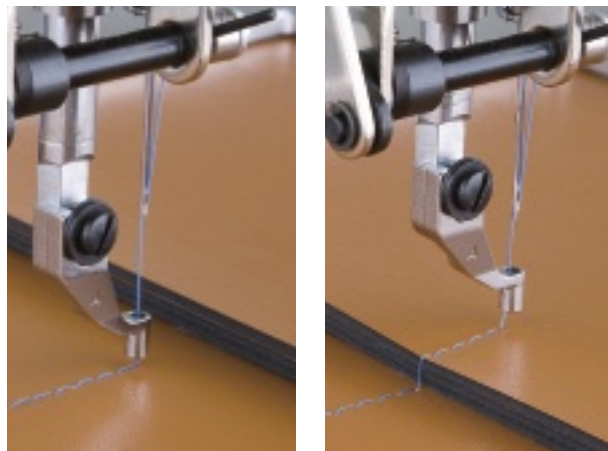
## Stable thread tightening available with low-tension sewing

Stable thread tightening even with low-tension sewing has been realized, with the high-rigid feed mechanism with servo control and the needle bar / thread take-up mechanism that has optimal timing and stroke.

## Uniform thread tightening even at overlapping parts of materials

The setting of the height of the stepping presser foot can easily be made by putting a value on the operation panel. By setting a suitable height of the presser foot for the thickness of the material, excessive or insufficient pressing by the presser foot can be prevented, enabling a finish with uniform thread tightening.

By using the programmer PD-3000\*, the height of the stepping presser foot can be set in sewing data. The height can be set so that it changes according to the changes of the thickness of the material.

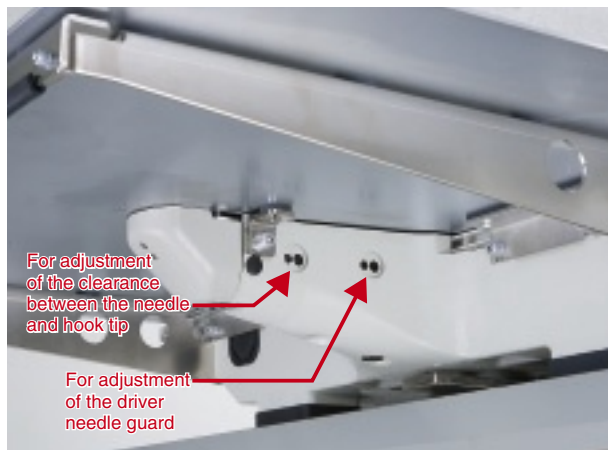


\* The programmer is an optional product.

## Adjustment of driver needle guard without tilting the machine head

The driver needle guard can easily be adjusted from the side of the bed, without tilting the machine head.

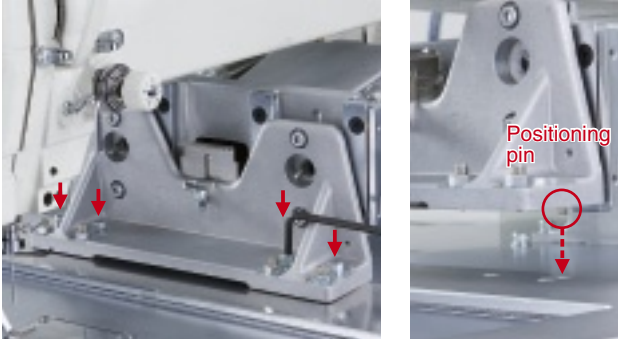
The adjustment of the clearance between the needle and the hook tip is also possible without tilting the machine head.



## Easy sewing pattern changing

### Work clamp can be replaced quickly

The work clamp can quickly be replaced by loosening four screws. It can accurately be installed with the positioning pins equipped.



### Feed plate can be replaced with accurate positioning

The feed plate can easily be installed by fitting the feed plate to the base plate and tightening the bolts while matching the reference holes of the both plates. The accurate positioning of the feed plate can easily be made.



## Large-capacity memory built-in

The machine can store large amounts of data (512 patterns, 500,000 stitches) in its internal memory. There is no need of loading a sewing program each time for changing the sewing pattern to be sewn.

In addition, the CF (CompactFlash) card with fast read and write speed is adopted as storage media. Multiple sewing programs can quickly be copied and moved to other sewing machines or to computers for sewing data management.

\* The numbers of sewing patterns and stitches that can be stored depend on the number of stitches of each sewing pattern.



## The PD-3000\*, a programmer with a large color LCD, easy-to-understand

- Sewing data can easily be created with icons and commands.
- The details of the sewing data in process of creation can be viewed, with the indication of the comments, the shape, horizontal and vertical size, and number of stitches of the pattern.
- The list of sewing data is shown with the pattern shape and copy and move of sewing data is easy. The programmer is suitable for sewing data management.
- The setting values of the memory switches can be checked with the programmer.
- English, Chinese, Spanish, Italian, French, German, Portuguese, Turkish, Vietnamese, and Japanese are supported as display language.

\* The programmer is an optional product.



## Environment-conscious

Brother has established the “Brother Green Label” in conformity with international standards ISO 14021 and Japanese Industrial Standards JIS Q14021. The BAS-342G has been approved for the “Brother Green Label” standards with “the industry’s most energy saving with the direct-drive motor system”, “the use of lead-free solder for all printed circuit boards” “a reduction of the usage rate of packing materials”. The model is an environment-conscious sewing machine.



## Options

### Cassette feed attachment

Cassette support board 342G (SA9090001)  
Cassette plate 342G (SA9095001)

### Automatic ejector (SA9147001\*/SA91470E1\*2)

It detects a cassette work clamp with the sensor and automatically holds it with pneumatic cylinder drive. Automatic ejecting of a cassette work clamp is possible by setting in sewing data. The device can be used to improve the productivity with having two cassette work clamps for the preparation for the next sewing operation while sewing.

### 2-step thread tension device (SA7197001)

Two types of upper thread tension in each sewing program are available by programming with the programmer (PD-3000). The device can deal with the sewing of a pattern with the changes of the thickness of the material such as at overlapping parts or the changes of sewing direction, providing a beautiful finish.

### Thread breakage detector (SA5193101\*/SA51931E1\*2)

It detects thread breakage. When thread breakage is detected, sewing operation is stopped automatically and a warning is given to the operator. The device is useful for simultaneous operations of multiple sewing machines by one operator.

### Floppy disk drive (FDD) set (SA5201001\*/ SA52010E1\*2)

Sewing data created for the old models can be loaded to this model machine with this set.

### Option manifold 5 set (SA7500001\*/ SA75000E1\*2)

It is required for the use of optional pneumatic devices.

### Installing parts for work clamp / feed plate for BAS-342F

Work clamp conversion R (SA8859001)  
Work clamp conversion L (SA8860001)  
Feed plate conversion assy (SA8871001)

It is required when using the work clamp / feed plate for the BAS-342F with the BAS-342G.

### Digital tension device (SA5436201\*/SA54362E1\*2)

Up to ten types of upper thread tension in each sewing program are available by programming with the programmer (PD-3000). The device can deal with the sewing of a pattern with the changes of the thickness of the material such as at overlapping parts or the changes of sewing direction, providing a beautiful finish.

### Thread wiper (SA5575101\*/SA55751E1\*2)

It is a thread wiper driven by a pneumatic cylinder. It is to be used when the thread is difficult to pull out of an extra-heavy material in sewing operation.

### Needle cooler (SA5559101\*/SA55591E1\*2)

It is a needle cooler which prevents thread breakage due to heat with air. It is effective for high-speed sewing and heavy material sewing.

### Triple-pedal foot switch (SA6495001\*/SA64950E1\*2)

Along with the start pedal, the right and left pedals are provided for separated operation functions. This allows even more precise positioning of materials.

\*1 For other than Europe \*2 For Europe only

## Gauge parts

	Needle assy	Needle hole plate	Presser foot	Needle bar thread guide	Shuttle hook assy, w/box	Shuttle race base
Medium-weight materials	DP×5 #16 SA1752016	φ2.2 SA5221001	<A> S42843001	<A> SA3257101	<LF> SA2173301	<A> 152682201
Heavy-weight materials (standard spec.)	DP×17 #19 SA1645019	φ2.4 SA3336101	<A> S42843001	<A> SA3257101	<LH> SA8197101	<B> 152686201
Airbag	DP×17 #25 SA1645025	φ3.0 SA5222101	<B> S42844001	<B> SA4815101	<LH> SA8197101	<B> 152686201

	Bobbin case assy	Bobbin	Spring, tension	Thread take-up spring	Spring, tension	Washer
Medium-weight materials	<LC> S59221201	<LAN> S44633001	104525101	145519301	SA4146101	—
Heavy-weight materials (standard spec.)	<LC> S59221201	<LAN> S44633001	107606101	144588301	SA4146101	—
Airbag	<LD> S59222201	<LB> S15666001	107606101	144588301	SA3416101	S20681000

## Peripheral equipment

### Sewing data programming software PS-300B

It is a software package to create, edit and modify sewing pattern data on a PC. Complex sewing patterns can easily be created and the order of stitching of a pattern can be checked and changed.



# Specifications

## BAS-342G-01A

Application	Work clamp
1 For heavy materials	A Pneumatic work clamp

Model	Lock stitch	Double hook	Sewing area	Stitch length	Thread trimmer	Thread wiper	Max. sewing speed	Air consumption
BAS-342G	★	2	300×200mm	0.05-12.7mm	★	★	2,700rpm*1	1.8 l/min.

Machine head	Lock stitch pattern tacking sewing machine (with double-capacity hook)
Stitch form	Single needle lock stitch
Max. sewing speed	2,700rpm*1
Sewing area (X × Y)	Max. 300 × 200mm
Feed mechanism	Intermittent feed (Pulse motor drive)
Stitch length	0.05-12.7mm (by 0.05mm)
Number of stitches storable	500,000 stitches in internal memory*2
Max. number of stitches per sewing pattern	20,000 stitches
Number of sewing patterns storable	Internal memory: 512*2, CF card: 900
Work clamp drive	Pneumatic
Height of work clamp	Max. 30mm
Work clamp lowering	Unit work clamp
Stepping presser foot lift amount	22mm
Stepping presser foot stroke	0, 2-4.5mm or 4.5-10mm (Factory setting: 3mm)
Hook	Double-capacity shuttle hook (Standard-capacity hook: Option)
Thread wiper	Standard equipment
Thread trimmer	Standard equipment
Data storage media	Internal memory (Flash memory), CF card (32MB-2GB) [Option] 3.5 Floppy disk 2HD/1.44MB, 2DD
Number of user programs	50
Number of cycle programs	9
Motor	AC servo motor 550W
Weight	Machine head: Approx. 160 kg, Operation panel: Approx. 0.6 kg Control box: 14.2-16.2 kg (depending on destination)
Power supply	Single phase 220V, 3-phase 200V/220V/380V/400V 500VA
Air pressure	0.5 Mpa 1.8 l/min

\*1 The stitch length is 3.5 mm or below. (The max. sewing speed depends on the sewing condition.)

\*2 The numbers of sewing patterns and stitches that can be stored depend on the number of stitches of each sewing pattern.

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Please read instruction manual before using the machine for safety operation.

**brother**

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Brother Industries, Ltd. Machinery & Solution Company  
Mizuho and Minato plants acquired ISO 9001 and 14001 certifications.

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