## Specifications

# BE-1204C-BC
# BE-1206B-BC

| Model | Lock stitch | No. of needles | Double hook | Light materials | Medium materials | Stitch length | Thread trimmer | Max. sewing speed |
|---|---|---|---|---|---|---|---|---|
| BE-1204C<br>BE-1206B | ★ | 12 | 2 | ★ | ★ | 0.1-12.7 mm | ★ | 1,000 rpm |

| | BE-1204C-BC | BE-1206B-BC |
|---|---|---|
| Feed system | By timing belt and stepping motor drive | |
| Power source / consumption | Single phase 200V, 220V, 230V, 240V 1.1kVA | |
| Distance between machine head | 500 mm | 360 mm |
| Weight | 670 kg / 1477 lbs. | 700 kg / 1544 lb. |
| Machine dimension (W x L x H) | At delivery: 120" x 32" x 55"<br>After set up: 120" x 54" x 69" | |
| Storage medium | Tajima format 3.5" 2DD floppy disks<br>3.5" 2HD floppy disks based on Tajima format<br>Barudan FDR/FMC format 3.5" 2DD floppy disks<br>ZSK format 3.5" 2DD floppy disks<br>Brother ECS format 3.5" floppy disks | |

### Max. field size (X-Y) and Max. sewing speed

| | No. of machine heads | Border frame | Flat frame | Tubular frame | Cap frame | |
|---|---|---|---|---|---|---|
| | | | | | Wide | Semi wide |
| BE-1204C-BC | 4 | 500 x 450 mm (1,000 rpm) | 400 x 430 mm (1,000 rpm) | 400 x 430 mm (1,000 rpm) | 360 x 85 mm (850 rpm) | 180 x 70 mm (850 rpm) |
| BE-1206B-BC | 6 | 360 x 450 mm (1,000 rpm) | 300 x 430 mm (1,000 rpm) | 300 x 430 mm (1,000 rpm) | 360 x 85 mm (850 rpm) | 180 x 70 mm (850 rpm) |

| | **Computer control type** | **Stand-alone type** |
|---|---|---|
| Display | Computer monitor<br>Icon display, mixed kanji/kana display (Japanese, English, French, German, Spanish, Italian; other languages to be added later) | Operation panel display<br>Icon display, mixed kanji/kana display (Japanese, Chinese (unsimplified), English, French, German, Spanish, Italian, Portuguese) |
| Needle bar/speed range | Separate setting for each needle bar | |
| Area trace | Boundaries selectable from rectangle or hexagon; stop, forward and back control functions | |
| Step-forward / Step-back | Units of 1, 10 or 100 stitches, color change units, movement by directly-specified number of stitches | |
| Automatic color changing | Unlimited | Up to 99 recordable for each pattern |
| No. of recordable patterns | Unlimited | 45 pattern |
| Memory | Unlimited (depending on computer hard disk capacity) | 480,000 stitches equipped as standard |
| Pattern rotation | -359 – 359˚ (units of 1˚ or 90˚) | 0 – 359˚ (units of 1˚ or 90˚) |
| Pattern repeating | Specified number (1 to 100 times in each direction) | Specified number (1 to 99 times in each direction) |
| Pattern enlargement / reduction | 50 – 200% (units of 1˚) | |
| Embroidery start / stop position changing | Possible | Impossible |



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

At your side.™

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BROTHER EMBROIDERY SYSTEMS

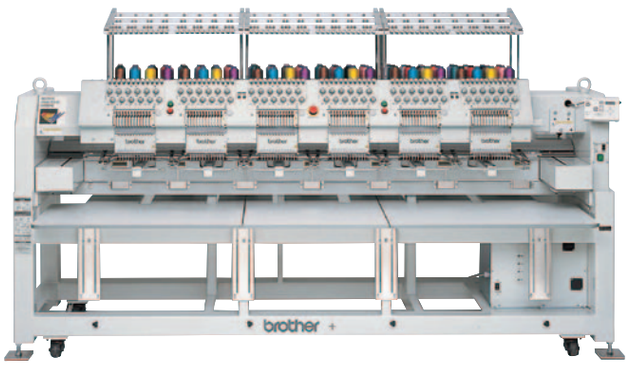
## 12 needle 4 head wide embroidery machine

# BE-1204C-BC


BE-1204C

## 12 needle 6 head embroidery machine

# BE-1206B-BC




BE-1206B

- Shorter cycle time increases productivity
- Attractive finishes and stable quality
- Short thread remaining length after thread trimming
- Flexible combinations are possible with computer control type

***Optimized thread tension ensures that finishes are always stable and attractive. Total cycle time is shorter, and these models are ideal for both multi-variety small-lot production and small-variety large-lot production.***

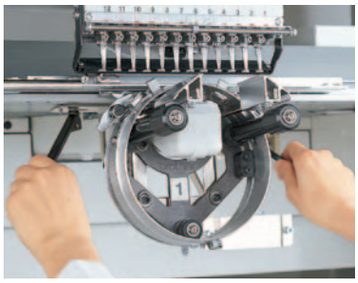
## Increased productivity

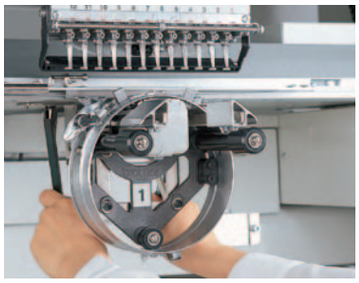
**• Cycle times have been reduced.**

Unnecessary feeding after thread trimming has been eliminated and the time taken for thread trimming has been reduced. In addition, color change is also carried out at high speed, so that total cycle time has been reduced by about 5% (compared to previous Brother products).

**• Switching between flat frames and cap frames is simple.**

There is no need to replace the needle plate or adjust the presser foot height when replacing frames, so overall setup time has been greatly reduced. Installing and removing the cap frame driver is also simplified.





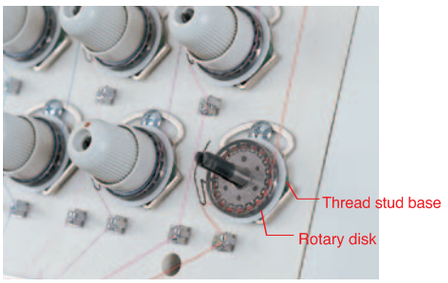
## Increased productivity

**• Reduced downtime, with thread breakages and thread tangling prevented before they occur.**

Highly-sensitive upper thread breakage sensors which monitor lower thread breakages are equipped as standard, so that if a thread breakage occurs or bobbin runs out, it is detected immediately. This keeps downtime to an absolute minimum.

Rotary hooks that reduce the load placed on the threads have been adopted. In addition, an optimized thread take-up mechanism has also been adopted to prevent thread breakages.

A thread take-up cover is provided to accurately prevent the thread tangles around the take-up levers.




## Stable and attractive finishes are provided

The adoption of a thread take-up mechanism, that has been optimized to provide the ideal thread tightness and a high-precision feed control mechanism, provides stable seam tightness under an even wider range of conditions so that high-quality finishes can always be obtained. Newly developed double-capacity rotary hooks ensure stable thread tightness, and correct thread tensions can be obtained for light up to heavy materials.

## Short thread remaining lengths

The thread trimming knife is located as close to the needle plate as possible. The thread remaining length underneath the material is approximately 6 mm. Because the thread remaining length is so short, the thread does not need to be manually trimmed.

## Low vibration and low noise

A reduction in jump noise means that vibration has been greatly reduced, and at the same time operation is much quieter overall.

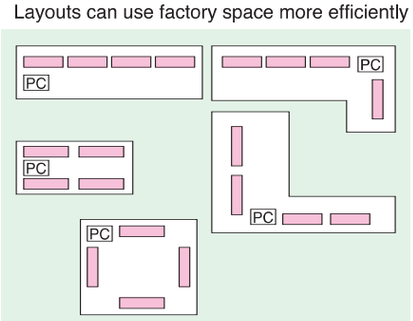
## Flexible response to customer needs (computer control type)

**• Machines can be combined to meet customer needs.**

A single computer can control a maximum of four units. These four units can operate independently at the same time, which is ideal for large-variety small-lot production runs and for producing different items all at once. It also allows productivity to be greatly increased.

4 head and 6 head embroidery machines can also be combined, so that you can select the number of heads – for example, 8 heads (4 + 4), 10 heads (6 + 4), or 12 heads (6 + 6) – in accordance with your needs.

Layouts can use factory space more efficiently




1 PC controls 4 units

# Flexible response to customer needs (computer control type)

**• Computer control allows centralized control.**

The progress of embroidering jobs are displayed on the computer screen. Details such as number of stitches, job progress, embroidering speed, and speed ranges are visible in real time.

Production statistics can also be collated to provide information for better production control. The information can also be displayed in graphs by using commercially-available graph plotting software.

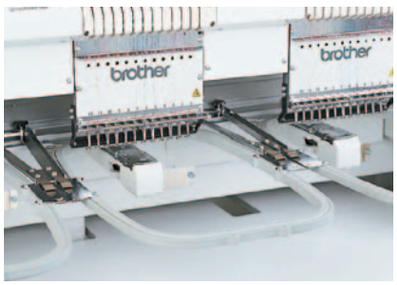
Embroidery patterns can be classified and stored in separate folders.

Stand-alone type is also available for operating machines individually without computer.

# Option

### Control panel

### Wide tubular frame

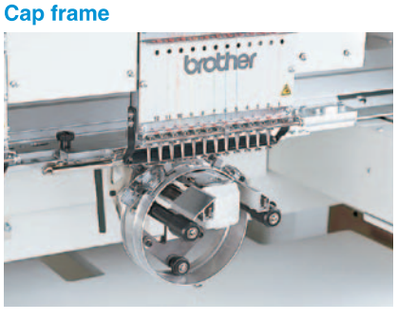


### 15" x 16" frame (4-head only)


### Bobbin winder

The bobbins can be wound either while embroidering is in progress or while the machine is stopped.

### Cap frame



# Peripheral equipment

### BES-300N
### Integrated network system

Multiple embroidery machines are connected together for more efficient management (Distribution of embroidery data, Centralized database management, Real-time monitoring of embroidery machines, Generation of production reports) Only stand-alone embroidery machines can be connected. Computer-controlled machines cannot be connected.