

Electronic lockstitch bar tacker

**KE-430C**

Electronic lockstitch eyelet buttonhole end bar tacker

**KE-432C**

Electronic lockstitch button sewer

**BE-438C**

Electronic lockstitch belt loop bar tacker

**KE-431C**

Electronic lockstitch pattern tacker

**KE-434C**

- World's fastest cycle time increase productivity
- Forms attractive seams
- High-capacity built-in motor system gives excellent cost performance



KE-430C

***Dramatically improves productivity, product quality and ease of use***

## Increase productivity

The world's fastest sewing speed of 2,700 rpm and a compact induction motor which is integrated with the machine head both help to reduce overall cycle time and increase productivity.

## Attractive and accurate seams

### • Thread take-up device

A thread take-up device is equipped. After the thread is trimmed, an upper thread trailing length with an extra 15 mm of length can be left, which is handy when sewing light materials where normal trailing thread lengths can often lead to the thread pulling out. (Thread trailing lengths may vary depending on the type of thread used.)



### • Accurate home position detection

The home position sensor incorporates a non-optical proximity sensor, so the sensor is not subject to operating errors from oil or dust, and cleaning oil and dust from the sensor are also unnecessary.

## Attractive and accurate seams

### • Highest-quality thread tightness

An improved thread take-up lever means that the thread take-up amount is optimum, allowing the highest-quality thread tightness to be obtained regardless of the type of material.

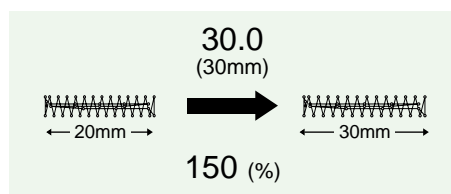
### • Prevent staining of the thread

The oil supplied to the rotary hook is kept clean at all times, which helps to prevent staining of the thread.

## Superb ease of operation greatly increases working efficiency

### • Enlargement and reduction ratios can be entered in length

Enlargement and reduction of the sewing patterns can be set at a touch using the operating panel. The ratios can be entered either as a percentage or in length(mm) (determined by DIP switch setting.)



### • Smooth pedal operation

The foot switch needs only a light pedal pressure to operate. This reduces the operator's working fatigue and gives better work efficiency.

### • Abundant data storage capacity

Maximum No. of stitches are 20,000. Up to a maximum of 16 user programs can be created, each with its own sewing pattern, enlargement ratio and sewing speed.

### • Easy-to-use independent operating panel

The operator can select whichever position is easiest to use.



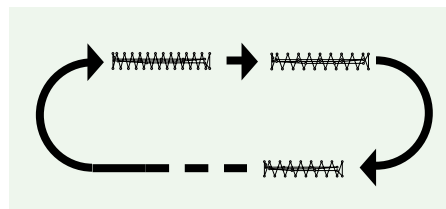
Above the work table



Below the work table

### • Cycle sewing

Up to 4 cycle sewing patterns can be programmed. Max 15 patterns/cycle can be programmed.



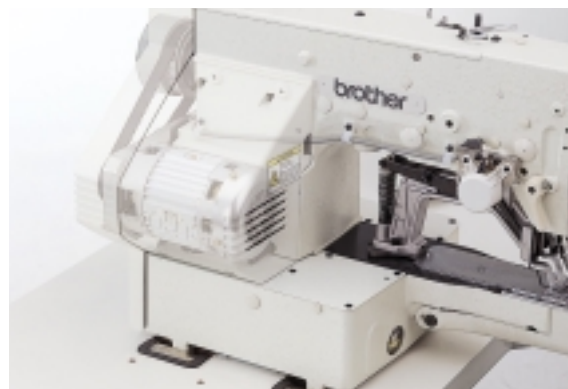
## Built-in Motor system

### • Low noise and low vibration

Integration of the motor and the machine head and the adoption of a timing belt make sewing machine operation much quieter and reduce machine vibration.

### • Easier maintenance

Periodic adjustment of the belt tension and adjustment of the motor position are no longer necessary. The machine head can also be tilted back to carry out adjustments without the need to remove the belt cover.



### • Easier torque adjustment

The torque can be changed by replacing the machine pulley and the P-ROM. This makes it possible to handle heavy materials and thick threads. (This is available by special order.)

### • No contamination of the material

The adoption of a timing belt eliminates the problem of belt shavings soiling sewing products.

# KE-430C Electronic lockstitch bar tacker











- In addition to standard bar tacking, straight bar tacking, vertical bar tacking, vertical straight bar tacking and crescent bar tacking which have been preprogrammed, bar tacking patterns of up to 30 x 26mm in size can be accommodated (by special order).



## KE-430C-0











































|   | Material           |
|---|--------------------|
| 1 | Ordinary materials |
| 2 | Denim              |
| 7 | Knitted materials  |



|         |  |  |  |  |  |  |  |  |  |  |
|---------|---|---|---|---|---|---|---|---|---|---|
| KE-430C | ★   | 30×26 mm  | ★   | ★   | ★   | ★   | 0.1–10.0 mm   | ★   | ★   | 2,700 rpm   |

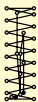
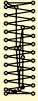
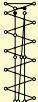
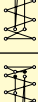
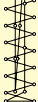





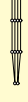
To prevent thread breakage due to heat, set the sewing speed to a maximum of 2,000rpm for –1 and –7.

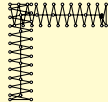
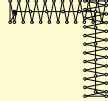
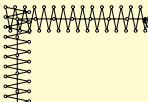
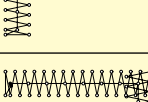
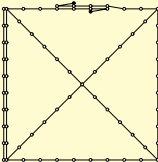
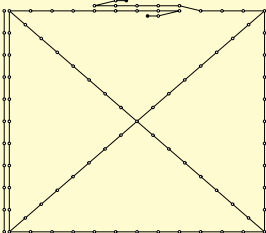
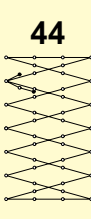
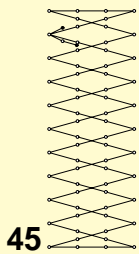
## List of pre-programmed pattern

| Use                    | Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|------------------------|-------------|---|-----------------|-------------|
| For ordinary materials | 8           |    | 21              | 7x2         |
|                        | 20          |    | 28              | 7x2         |
|                        | 21          |    | 35              | 7x2         |
|                        | 5           |    | 29              | 10x2        |
|                        | 13          |    | 35              | 10x2        |
|                        | 15          |    | 42              | 10x2        |
|                        | 4           |    | 30              | 16x2        |
|                        | 1           |    | 42              | 16x2        |
| For knitted materials  | 22          |    | 14              | 7x2         |
|                        | 9           |    | 21              | 7x2         |
|                        | 7           |    | 28              | 8x2         |
|                        | 33          |    | 15              | 8x2         |
|                        | 32          |    | 22              | 8x2         |
|                        | 31          |    | 28              | 8x2         |
| For denim              | 6           |    | 30              | 16x3        |
|                        | 14          |    | 35              | 16x3        |
|                        | 16          |    | 43              | 16x3        |
|                        | 3           |    | 35              | 20x3        |
|                        | 2           |    | 42              | 20x3        |
|                        | 17          |    | 42              | 24x3        |
|                        | 18          |    | 56              | 24x3        |
|                        | 19          |    | 64              | 24x3        |
| Straight bar tacking   | 10          |    | 21              | 10x0.3      |
|                        | 11          |    | 28              | 10x0.3      |
|                        | 12          |    | 28              | 20x0.3      |
|                        | 23          |    | 35              | 25x0.3      |
|                        | 24          |    | 42              | 25x0.3      |
|                        | 25          |    | 45              | 25x0.3      |
|                        |             |   |                 |             |
| Crescent bar tacking   | 34          |  | 35              | 12x7        |
|                        | 35          |  | 58              | 12x7        |
|                        | 36          |  | 57              | 7x12        |
|                        | 37          |  | 57              | 7x12        |
|                        | 38          |  | 53              | 7x10        |
|                        | 39          |  | 53              | 7x10        |
|                        |             |   |                 |             |
|                        |             |   |                 |             |
| Crossed stitching      | 48          |  | 70              | 10x10       |
|                        | 49          |  | 93              | 9.6x9.6     |
| Circular stitching     | 56          |  | 106             | 9x9         |
|                        | 57          |  | 116             | 9x9         |
|                        | 58          |  | 127             | 9x9         |
|                        | 59          |  | 104             | 10x10       |
|                        | 60          |  | 114             | 10x10       |
|                        | 61          |  | 124             | 10x10       |
|                        |             |   |                 |             |

- The sewing start and sewing end of the sewing patterns for program numbers 31 to 33 are in the middle of the pattern.
- Make sure that the sewing pattern is within the dimensional limits of the work clamp and feed plate.
- If you want to sew a pattern other than standard patterns, you can create your original pattern using the PS-3000. Consult with your local Brother Sales Office for details.

## List of pre-programmed pattern

|                               | Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|-------------------------------|-------------|---|-----------------|-------------|
| Vertical bar tacking          | <b>26</b>   |    | 28              | 3x10        |
|                               | <b>27</b>   |    | 35              | 3x10        |
|                               | <b>40</b>   |    | 32              | 3x16        |
|                               | <b>41</b>   |    | 36              | 3x16        |
|                               | <b>42</b>   |    | 44              | 3x20        |
|                               | <b>43</b>   |    | 68              | 3x24        |
| Vertical straight bar tacking | <b>28</b>   |  | 19              | 0.3x10      |
|                               | <b>29</b>   |  | 21              | 0.3x10      |
|                               | <b>30</b>   |  | 28              | 0.3x10      |
|                               | <b>46</b>   |  | 27              | 0.3x20      |
|                               | <b>47</b>   |  | 44              | 0.3x25      |

|                           | Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|---------------------------|-------------|---|-----------------|-------------|
| L-pattern tacking         | <b>52</b>   |    | 60              | 11.3x11.2   |
|                           | <b>53</b>   |    | 60              | 11.3x11.2   |
|                           | <b>54</b>   |    | 78              | 15.3x15.2   |
|                           | <b>55</b>   |    | 78              | 15.3x15.2   |
| Crossed tacking           | <b>50</b>   |    | 84              | 16x16       |
|                           | <b>51</b>   |    | 105             | 30x26       |
| Vertical zigzag stitching | <b>44</b>   |   | 46              | 9x15        |
|                           | <b>45</b>   |  | 70              | 9x25        |

### Main use

Jeans(belt loop attachment, pocket top, front, crotch), Slacks(belt loop attachment, side-pocket top, rear pocket, front), Jackets, Foundation garments, Underwear, etc.



· Make sure that the sewing pattern is within the dimensional limits of the work clamp and feed plate.

· If you want to sew a pattern other than standard patterns, you can create your original pattern using the PS-3000. Consult with your local Brother Sales Office for details.



## KE-431C Electronic lockstitch belt loop bar tacker









- This electronic bar tacker is specially designed for sewing belt loops onto men's and ladies' clothing, and work clothes. It has 6 types of programs already built-in.
- The large curved presser arm and the flat feed plate are designed for large loop dimensions and high work efficiency.





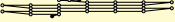
### KE-431C-0

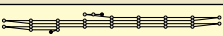
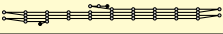
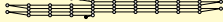
|   | Bar tacking length |
|---|--------------------|
| 2 | 6 – 14 mm          |
| 3 | 14 – 25 mm         |



|         |  |  |  |  |  |  |  |  |
|---------|---|---|---|---|---|---|---|---|
|         | Lock stitch   | Bar tacking   | Standard hook   | Medium materials  | Stitch length   | Thread trimmer  | Thread wiper  | Max. sewing speed   |
| KE-431C | ★   | 30×10 mm  | ★   | ★   | 0.1–10.0 mm   | ★   | ★   | 2,700 rpm   |

### List of pre-programmed pattern









| Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|-------------|---|-----------------|-------------|
| 1           |   | 21              | 10x0.3      |
| 2           |  | 28              | 10x0.3      |
| 3           |  | 28              | 20x0.3      |

| Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|-------------|---|-----------------|-------------|
| 4           |   | 35              | 25x0.3      |
| 5           |  | 42              | 25x0.3      |
| 6           |  | 45              | 25x0.3      |




## KE-432C Electronic lockstitch eyelet buttonhole end bar tacker

- This electronic bar tacker is specially designed for bar tacking of eyelet buttonholes on men's and ladies' clothing and overcoats. It has 3 types of programs already built-in.
- The presser foot guide mechanism picks up the material to the left and right before sewing starts, so that a strong finish with stable and secure eyelet buttonhole seams can be obtained.
- The timing for picking up the material can be switched between a mode in which the materials is picked up before sewing and another mode in which the material is picked up at the same time as the presser foot is lowered.



|         |  |  |  |  |  |  |  |  |
|---------|---|---|---|---|---|---|---|---|
|         | Lock stitch   | Bar tacking   | Standard hook   | Medium materials  | Stitch length   | Thread trimmer  | Thread wiper  | Max. sewing speed   |
| KE-432C | ★   | 12×3 mm   | ★   | ★   | 0.1–10.0 mm   | ★   | ★   | 2,700 rpm   |

### List of pre-programmed pattern

| Program No. | Sewing pattern  | No. of stitches | Size X-Y mm |
|-------------|---|-----------------|-------------|
| 1           |  | 21              | 6x2         |
| 2           |  | 28              | 6x2         |
| 3           |  | 35              | 6x2         |

## KE-434C Electronic lockstitch pattern tacker

- This is ideal for plain stitching of small articles and for attaching curtain darts.
- Any pattern desired can be sewn within the 100 x 60 mm sewing area.
- The machine comes in both solenoid type and pneumatic type specifications. The pneumatic type machine lets you change the operation of the work clamp by changing the mode setting, so that the work clamp operation that best suits the particular application can be selected.

Simultaneous LR work clamp mode (left and right work clamp are raised and lowered at the same time)

Separate LR work clamp mode (left and right work clamp are raised and lowered separately)

Light work clamp mode (before sewing begins the article is pressed lightly, allowing more accurate positioning)

- An inner clamping device is provided in order to guarantee beautiful finishes when carrying out closed pattern sewing operations such as the attaching of labels.

### KE-434C-X










|   | Material         |
|---|------------------|
| 1 | Medium materials |
| 2 | Heavy materials  |

At the time of shipment, the P-ROM for the KE-434C-X will be blank and the presser foot and feed plate will be unmodified. The presser foot, feed plate and P-ROM specifications can be specified in detail to suit your requirements when ordering.



Pneumatic type



|         |  |  |  |  |  |  |  |  |  |
|---------|---|---|---|---|---|--|---|---|---|
| KE-434C | ★   | ★   | ★   | ★   | 100×60 mm   | 0.1–10.0 mm  | ★   | ★   | 2,500 rpm   |

### Pattern example

#### Solenoid type specifications (one step work clamping)

Tongue tacking stitch  
Safety belt attaching stitch  
Curtain darts stitch



#### Pneumatic specifications with separate LR work clamp mode (double step work clamping)

It is best suited when sewing is carried out while positioning to the body and while pressing the body in advance.  
Label attaching, Front hook attaching stitch



#### Pneumatic specifications with inner clamping device

It is best if you can minimize the seam allowance.

Name attaching  
Magic tape attaching  
Label attaching stitch



## Options (for KE-434C)










### Three-pedal foot switch (for pneumatic specifications)

The presser (left) switch, the presser (right) switch and the start switch have been separated, giving the operator more flexibility to select the best method of working.







# BE-438C Electronic lockstitch button sewer

- This electronic bar tacker is specially designed for attaching buttons. It has 49 different built-in programs available, including patterns for 2-hole, 3-hole and 4-hole buttons with or without linking stitches.
- As the sewing patterns can be enlarged or reduced centering on the sewing start point, adjustments for different buttonhole sizes can be carried out easily.
- The adoption of Brothers unique backtack sewing method ensures that the thread will not unravel.



|         |  |  |  |  |  |  |  |  |  |
|---------|---|---|---|---|---|---|---|---|---|
| BE-438C | ★   | 6.4×6.4 mm  | ★   | ★   | ★   | 0.1–10.0 mm   | ★   | ★   | 2,500 rpm   |

## List of pre-programmed pattern

| Program No.      | No. of button holes | Sewing pattern  | No. of threads | No. of crossover stitches | No. of stitches | Size X-Y mm |
|------------------|---------------------|---|----------------|---------------------------|-----------------|-------------|
| 1                | 2                   |  | 6              | —                         | 13              | 3.4x0       |
| 2                |                     |   | 8              | —                         | 15              |             |
| 3                |                     |   | 10             | —                         | 17              |             |
| 4                |                     |   | 12             | —                         | 19              |             |
| 5 <sup>*1</sup>  |                     |   | 16             | —                         | 23              |             |
| 6 <sup>*1</sup>  |                     |   | 20             | —                         | 27              |             |
| 7 <sup>*2</sup>  | 3                   |  | 6              | —                         | 13              | 0x3.4       |
| 23 <sup>*2</sup> |                     |   | 10             | —                         | 17              |             |
| 8 <sup>*2</sup>  |                     |   | 12             | —                         | 19              |             |
| 9 <sup>*2</sup>  | 3                   |  | 5-5-5          | —                         | 22              | 2.6x2.4     |
| 24 <sup>*2</sup> |                     |   | 7-7-7          | —                         | 28              |             |
| 25 <sup>*2</sup> |                     |   | 5-5-5          | —                         | 22              |             |
| 26 <sup>*2</sup> |                     |   | 7-7-7          | —                         | 28              |             |
| 10               | 4                   |  | 6-6            | 1                         | 20              | 3.4x3.4     |
| 11               |                     |   | 8-8            | 1                         | 24              |             |
| 12               |                     |   | 8-8            | 3                         | 26              |             |
| 13               |                     |   | 10-10          | 1                         | 28              |             |
| 27               | 4                   |  | 12-12          | 1                         | 32              |             |
| 14 <sup>*3</sup> |                     |   | 6-6            | 0                         | 26              |             |
| 28 <sup>*3</sup> |                     |   | 8-8            | 0                         | 30              |             |
| 15 <sup>*3</sup> |                     |   | 10-10          | 0                         | 34              |             |
| 29 <sup>*3</sup> |                     |   | 12-12          | 0                         | 38              |             |
| 16               |                     |  | 6-5            | 1                         | 19              |             |
| 17               |                     |   | 8-7            | 1                         | 23              |             |
| 30               |                     |   | 10-9           | 1                         | 27              |             |

\*1 Check that the button hole diameter is 2 mm or greater before using the programs.

\*2 Do not use the button lifter spring.

\*3 Thread is trimmed after sewing of one side is completed, because there is no crossover thread to be sewn. To continue sewing to the end, keep the foot switch depressed until sewing of the other side starts, or press the foot switch once more after sewing of the first side is completed.

Dimensions of buttons that can be sewn





Outer diameter of button 8–30mm (Use the optional button clamp B for diameters of 20–30mm.)

Space between the button holes




0–6.4mm.

Thread knot

Knot tied by sewing pattern (start and end sewing)

| Program No.        | No. of button holes | Sewing pattern  | No. of threads | No. of crossover stitches | No. of stitches | Size X-Y mm |
|--------------------|---------------------|---|----------------|---------------------------|-----------------|-------------|
| 18                 | 4                   |  | 6-6            | 1                         | 20              | 3.4x3.4     |
| 19                 |                     |   | 8-8            | 1                         | 24              |             |
| 31                 |                     |   | 10-10          | 1                         | 28              |             |
| 45                 |                     |   | 12-12          | 1                         | 32              |             |
| 20 <sup>*3</sup>   |                     |  | 6-6            | 0                         | 26              | 2.4x3.4     |
| 32 <sup>*3</sup>   |                     |   | 8-8            | 0                         | 30              |             |
| 33 <sup>*3</sup>   |                     |   | 10-10          | 0                         | 34              |             |
| 21 <sup>*2</sup>   |                     |   | 6-6            | 1                         | 20              |             |
| 34 <sup>*2</sup>   |                     |  | 10-10          | 1                         | 28              | 3.4x3.4     |
| 22 <sup>*2*3</sup> |                     |   | 6-6            | 0                         | 26              |             |
| 35 <sup>*2*3</sup> |                     |   | 10-10          | 0                         | 34              |             |
| 46                 |                     |   | 6-6            | 1                         | 20              |             |
| 47                 | 4                   |  | 8-8            | 1                         | 24              | 3.4x3.4     |
| 48                 |                     |   | 10-10          | 1                         | 28              |             |
| 49                 |                     |   | 12-12          | 1                         | 32              |             |

The following programs require the solenoid thread wiper (Optional).

| Program No.      | No. of button holes | Sewing pattern  | No. of threads | No. of crossover stitches | No. of stitches | Size X-Y mm |
|------------------|---------------------|---|----------------|---------------------------|-----------------|-------------|
| 36               | 4                   |  | 6-6            | 0                         | 26              | 3.4x3.4     |
| 37               |                     |   | 8-8            | 0                         | 30              |             |
| 38               |                     |   | 10-10          | 0                         | 34              |             |
| 39               |                     |   | 12-12          | 0                         | 38              |             |
| 40               |                     |  | 6-6            | 0                         | 26              | 2.4x3.4     |
| 41               |                     |   | 8-8            | 0                         | 30              |             |
| 42               |                     |   | 10-10          | 0                         | 34              |             |
| 43 <sup>*2</sup> |                     |   | 6-6            | 0                         | 26              |             |
| 44 <sup>*2</sup> |                     |  | 10-10          | 0                         | 34              | 3.4x3.4     |

## Options (for BE-438C)

### Button clamp

The button clamp which is provided as a standard part can hold buttons between 8-20mm in diameter. Button clamps for large buttons (8-30mm) and snaps are also available as options

### Button spacer assembly

This device is used to ensure that the buttons attached at uniform intervals.

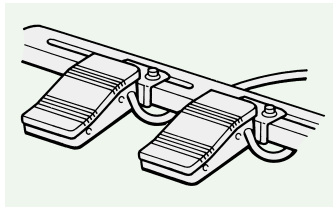
### Shank button attachment



## Options (for KE-430C series)

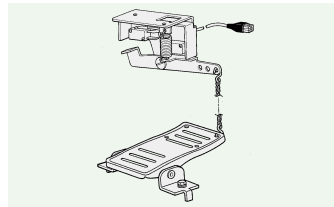
### Two-pedal foot switch\*

The presser switch and the start switch have been separated, giving the operator more flexibility to select the best method of working.



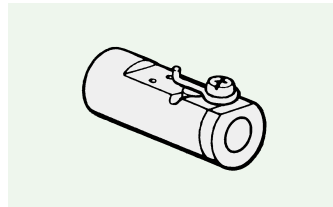
### Two-step foot switch

This is a pedal-type foot switch. (Solenoid type only)



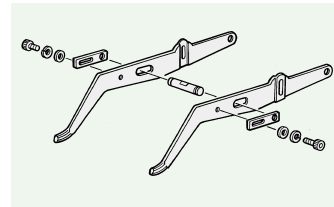
### Liquid cooling tank

This helps to prevent thread breakage caused by friction when using synthetic threads. Fill the tank with silicone oil.



### Work clamp set QC (430C/433C)

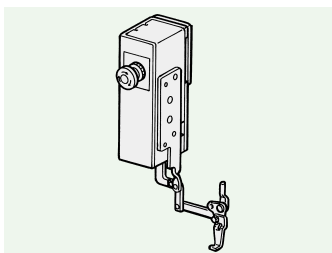
The work clamp can be easily replaced by loosening the bolt and moving work clamp arm levers.



\*KE-434B pneumatic specification: standard equipment

### Solenoid thread wiper\*

This wipes the thread independently of the work clamp operation.



### Peripheral equipment PS-3000

#### Programming software for electronic pattern sewer

The KE-430C Series can be used to sew any patterns other than those patterns which have been pre-programmed. The PS-3000 is a software package which lets you create new patterns using a personal computer. (A ROM writer is required.)



## Specifications

|                                 | KE-430C   | KE-431C                           | KE-432C                           | KE-434C   | BE-438C   |
|---------------------------------|---|-----------------------------------|-----------------------------------|---|---|
| Feed mechanism                  | R-θ intermittent feed mechanism (pulse-motor driven mechanism)  |                                   |                                   |   |   |
| No. of stitches                 | Variable  |                                   |                                   |   |   |
| Max. stitch number              | 20,000 stitches (including 10,000 stitches which can be added)  |                                   |                                   |   |   |
| Work clamp lifter               | Solenoid type   |                                   |                                   | Solenoid type, Pneumatic type   | Solenoid type   |
| Work clamp height               | 17 mm max.  |                                   |                                   | Solenoid type: 17 mm max.<br>Pneumatic type: 25 mm max. (inner clamping device: 17 mm max.)   | 13 mm max. (Button clamp height)  |
| Thread take-up device           | Standard equipment  |                                   |                                   |   |   |
| Data storage method             | P-ROM (Any sewing pattern can be added using PS-3000.)  |                                   |                                   |   |   |
| No. of user programs            | 16  |                                   |                                   |   |   |
| No. of cycle programs           | 4   |                                   |                                   |   |   |
| No. of stored data              | 61 sewing patterns are set already  | 6 sewing patterns are set already | 3 sewing patterns are set already | —   | 49 sewing patterns are set already  |
|                                 | Up to 100 patterns can be added. Total number of stitches of stored data which can be added is within 10,000.   |                                   |                                   |   |   |
| Enlarging and reducing patterns | 20 – 200 %  |                                   |                                   |   |   |
| Motor                           | Three-phase 400 W induction motor   |                                   |                                   |   |   |
| Weights                         | 113.6 kg (Single-phase)<br>108.6 kg (3-phase 400 V)<br>103.6 kg (3-phase 220 V, 380 V)<br>Machine head: 47 kg<br>Operation panel: 0.6 kg<br>Control box: 19 kg (Single-phase)<br>14 kg (3-phase 400 V)<br>9 kg (3-phase 220 V, 380 V) |                                   |                                   | 115.6 kg (Single-phase)<br>110.6 kg (3-phase 400 V)<br>105.6 kg (3-phase 220 V, 380 V)<br>Machine head: 49 kg<br>Operation panel: 0.6 kg<br>Control box: 19 kg (Single-phase)<br>14 kg (3-phase 400 V)<br>9 kg (3-phase 220 V, 380 V) | 113.6 kg (Single-phase)<br>108.6 kg (3-phase 400 V)<br>103.6 kg (3-phase 220 V, 380 V)<br>Machine head: 47 kg<br>Operation panel: 0.6 kg<br>Control box: 19 kg (Single-phase)<br>14 kg (3-phase 400 V)<br>9 kg (3-phase 220 V, 380 V) |
|                                 |   |                                   |                                   |   |   |
| Power source                    | Single-phase 110 V, 220-230 V, 240 V Three-phase 220 V, 380 V, 400 V, Maximum electric power consumption 600 VA   |                                   |                                   |   |   |
| Safety device                   | —   | —                                 | —                                 | Intermediate stop function  | —   |

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

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