MEB-3810 Series
Computer-controlled, Eyelet Buttonholing Machine (for jeans and cotton pants)

The machine is a newly developed highly-durable eyelet buttonholing machine for jeans/cotton pants.

The machine achieves a maximum sewing speed as high as 2,500 sti/min and is provided with a cloth cutting knife which operates at an increased speed, thereby promising increased productivity.
The machine achieves not only a maximum sewing speed as high as 2,500 sti/min, but also reduced vibration and noise. The machine is a newly developed highly-durable simple-design eyelet buttonholing machine for jeans/cotton pants.

Increased productivity

Machine time is substantially reduced

The MEB-3810 reduces the machine time by approximately 22% due to its maximum sewing speed of 2,500 sti/min and its speed-up cloth cutting knife, thereby demonstrating increased productivity.

Then newly adopted direct-driven main shaft by means of a compact AC servomotor not only achieves enhanced responsiveness, but also achieves both reduced noise and reduced vibration. In addition, the machine has adopted an air-driven cloth cutting knife which promises excellent responsiveness and operates faster than the conventional knife.

Improved workability and operability

Projected arm frame of the needle entry has been reduced. In addition, the cloth cutting knife is located closer to the operator side as compared with the conventional model. Viewability, when placing the material on the sewing machine, is improved, thereby contributing to improved workability. In addition, the thread clamp mechanism of the needle thread clamp (optional) has been improved for better viewability.

Ease of placement of the material on the machine is increased

The surface onto which the material is placed is flattened (for the machine with an overall thread trimmer). The material can, therefore, be placed on the machine with ease to improve workability.

Achievement of lower vibration and lower noise

Adoption of a direct-driven main shaft and a revamping of the curve sections of the thread take-up cam and looper cam contribute to remarkably reduced vibration and noise. Vibration has been reduced by 7.7dB and noise has been reduced by 1.5dB as compared with the conventional model to produce this operator-friendly machine.

Retractable bottom cover

A retractable bottom cover is adopted. Daily maintenance (threading, adjustment of the looper thread, cleaning, etc.) can be carried out without raising the machine head.

Quality improvement

JUKI’s unique active tension

For the needle thread tension control, JUKI’s unique active tension mechanism is adopted to electronically control the needle thread tension during the stitching cycle. As a result, improved seam quality is achieved. In addition, the sewing capabilities have been improved to prevent stitch skipping, as well as to produce well-tensed seams.

Two different thread trimmers are prepared, i.e., the overall thread trimmer and the needle thread trimmer

Two different thread trimmers are prepared. One of them can be selected according to the customer’s needs. The overall thread trimmer has been newly designed putting importance on productivity. It promises thread trimming without fail and trims the thread in a short time. The operator is no longer required to carry out fine adjustments of the thread trimmer when changing the sewing length. A sewing machine with a needle thread trimmer has been newly added to the MEB Series in response to customer needs.

LIST OF THE REPLACEMENT GAUGES

**Cloth cutting knife (for eyetlet buttonhole)**

<table>
<thead>
<tr>
<th>Part name</th>
<th>Part No.</th>
<th>Application</th>
<th>Overeding width</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00 (for narrow stitch bite)</td>
<td>40115403</td>
<td>–</td>
<td>–</td>
<td>2.0<del>3.2mm Nm90</del>Nm110</td>
</tr>
<tr>
<td>B00 (for wide stitch bite)</td>
<td>40115405</td>
<td>–</td>
<td>–</td>
<td>2.0<del>4.0mm Nm90</del>Nm110</td>
</tr>
<tr>
<td>A01 (for narrow stitch bite)</td>
<td>40115404</td>
<td>–</td>
<td>–</td>
<td>2.0<del>3.2mm Nm90</del>Nm110</td>
</tr>
<tr>
<td>B01 (for wide stitch bite)</td>
<td>40115406</td>
<td>–</td>
<td>–</td>
<td>2.0<del>4.0mm Nm90</del>Nm110</td>
</tr>
</tbody>
</table>

**Cloth cutting knife (for straight buttonhole)**

<table>
<thead>
<tr>
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<th>Application</th>
<th>Overeding width</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edging work clamp (left)</td>
<td>40035238</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
<tr>
<td>Edging work clamp (right)</td>
<td>40115238</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
<tr>
<td>Edging work clamp (left)</td>
<td>40035239</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
<tr>
<td>Edging work clamp (right)</td>
<td>40115239</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
<tr>
<td>Compensating work clamp (left)</td>
<td>40035240</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
<tr>
<td>Compensating work clamp (right)</td>
<td>40115240</td>
<td>–</td>
<td>–</td>
<td>38mm</td>
</tr>
</tbody>
</table>

**Knife guard (for eyetlet buttonhole)**

<table>
<thead>
<tr>
<th>Size (mm)</th>
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<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>40115610</td>
<td>–</td>
</tr>
<tr>
<td>26</td>
<td>40115669</td>
<td>–</td>
</tr>
<tr>
<td>22</td>
<td>40115668</td>
<td>–</td>
</tr>
<tr>
<td>20</td>
<td>40115667</td>
<td>–</td>
</tr>
<tr>
<td>16</td>
<td>40115666</td>
<td>–</td>
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<tr>
<td>14</td>
<td>40115665</td>
<td>–</td>
</tr>
<tr>
<td>12</td>
<td>40115664</td>
<td>–</td>
</tr>
</tbody>
</table>

**Knife guard (for straight buttonhole)**

<table>
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<tbody>
<tr>
<td>14</td>
<td>40115610</td>
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<tr>
<td>12</td>
<td>40115609</td>
<td>–</td>
</tr>
<tr>
<td>10</td>
<td>40115608</td>
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<th>Pattern (mm)</th>
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</thead>
<tbody>
<tr>
<td>40115664</td>
<td>X Y</td>
<td>2.8 4.3</td>
<td>38</td>
<td>J00 J01 C00 C01</td>
</tr>
<tr>
<td>40115665</td>
<td>X Y</td>
<td>2.8 4.3</td>
<td>38</td>
<td>J00 J01 C00 C01</td>
</tr>
<tr>
<td>32063603</td>
<td>X Y</td>
<td>2.9 4.4</td>
<td>24</td>
<td>J00 J01 C00 C01</td>
</tr>
<tr>
<td>32063702</td>
<td>X Y</td>
<td>2.9 4.4</td>
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<td>J00 J01 C00 C01</td>
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<tr>
<td>32063802</td>
<td>X Y</td>
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<td>38</td>
<td>J00 J01 C00 C01</td>
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<td>32063901</td>
<td>X Y</td>
<td>2.1 3.2</td>
<td>24</td>
<td>J00 J01 C00 C01</td>
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<tr>
<td>32064008</td>
<td>X Y</td>
<td>2.1 3.2</td>
<td>32</td>
<td>J00 J01 C00 C01</td>
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<tr>
<td>32064107</td>
<td>X Y</td>
<td>5.2 5.4</td>
<td>32</td>
<td>–</td>
</tr>
<tr>
<td>32064206</td>
<td>X Y</td>
<td>5.2 5.4</td>
<td>32</td>
<td>–</td>
</tr>
<tr>
<td>32064305</td>
<td>X Y</td>
<td>5.2 5.4</td>
<td>32</td>
<td>–</td>
</tr>
<tr>
<td>32064504</td>
<td>X Y</td>
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<td>X Y</td>
<td>0 0</td>
<td>32</td>
</tr>
</tbody>
</table>

Photo: Provided with the needle thread clamp (optional)
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model name</th>
<th>MEB-3810J</th>
<th>MEB-3810C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>Jeans</td>
<td>Cotton pants and working wear</td>
</tr>
</tbody>
</table>

- **Stitching shape patterns**
  - Buttonhole without a bartack
  - Buttonhole with a taper bar
  - Buttonhole with a straight bartack
  - Buttonhole with a round bartack
  - Buttonhole with a taper bar.
  - The machine is provided as standard with 10 different stitching shape patterns of eyelet buttonhole. As many as 89 different patterns can be stored in memory and selected.

- **Stitch system**
  - 1-needle, double chainstitch (with gimp)
  - 2-needle, double chainstitch (with gimp)

- **Sewing speed**
  - 400~2,500 sti/min

- **Sewing length**
  - 10~38mm (Needle thread trimming type)
  - 10~34mm (Overall thread trimming type)

- **Needle throwing width**
  - Mechanical adjustment of the needle throwing width: 2.0~4.0mm
  - Compensated of the needle throwing width (by the lower feed dog): 1.5~5.0mm

- **Taper bar length**
  - 3~15mm

- **Work clamp height**
  - 13mm

- **Method for changing stitch shape**
  - By selecting a program

- **Buttonhole cutting method**
  - By cut-before knife or cut-after or without buttonhole cutting

- **Cloth cutting knife drive system**
  - Pneumatic

- **Needle (at the time of delivery)**
  - D0×558 (NM90~NM120) (NM110)

- **Lubricating oil**
  - JUKI MACHINE OIL No.18 (equivalent to ISO VG18)

- **Compressed air**
  - Main regulator: 0.5 MPa
  - Hammer pressure regulator: 0.35 MPa (standard), 0.4 MPa (Max)

- **Air consumption**
  - 49.5 l/min (11.6 cycle/min)

- **Power requirement and power consumption**
  - Single-/3-phase 200-240V, 250VA

- **Weight**
  - Machine head: 110Kg, Operation panel: 0.3Kg, Control Box: 5Kg

- **Dimensions**
  - Machine head: 382mm (W) × 656mm (D) × 584mm (H)
  - Completed product: 1,050mm (W) × 700mm (D) × 1,248mm (H) (Thread stand is not included)

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**WHEN YOU PLACE ORDERS**

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

- **Machine head**
  - MEB 3810
  - Options: A
  - Power supply: E

- **Control box**
  - MCB 3210

- **Table stand**
  - Code: A

- **Thread trimming style**
  - Needle thread trimming type: 00
  - Overall thread trimming type: 01

- **Options**
  - Needle thread clamp device: A1

- **Power supply**
  - 3-phase: 200~240V (for General Export)
  - Single-phase: 200~240V (for General Export)

**Options**

- **2-pedal switch**
  - [Part No. 40033831 (Pedal switch, asm.)]
  - The work clamp can be lifted/lowered and the machine can be started using the pedal switch.
  - To use the 2-pedal unit, pedal switch cable asm. (Part No. 4014433) is required.

- **Sub table asm.**
  - (for sunken head setup)
  - [Part No. 4015994]

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To order, please contact your nearest JUKI distributor.

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