### Specifications:

#### S-7100A

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Thread wiper</td>
<td>No</td>
</tr>
<tr>
<td>Application</td>
<td>Light materials and Medium materials, Heavy materials</td>
</tr>
<tr>
<td>Max. sewing speed</td>
<td>5,000rpm/4,000rpm</td>
</tr>
<tr>
<td>Max. stitch length</td>
<td>5.2mm</td>
</tr>
<tr>
<td>Thread take-up stroke</td>
<td>6.2mm</td>
</tr>
<tr>
<td>Needle bar stroke</td>
<td>31mm</td>
</tr>
<tr>
<td>Height of feed dog</td>
<td>7.5mm</td>
</tr>
<tr>
<td>Length of knee (front)</td>
<td>510 x 360 x 288 (mm)</td>
</tr>
<tr>
<td>Weight/Machine head</td>
<td>45Kg</td>
</tr>
<tr>
<td>Arm pocket size</td>
<td>Width: 206.5mm, Height: 127mm</td>
</tr>
<tr>
<td>Needle (S027, ST60)</td>
<td>#11-#18, #19-#22</td>
</tr>
<tr>
<td>Lubrication oil</td>
<td>High-speed special oil</td>
</tr>
<tr>
<td>Motor</td>
<td>AC servo motor (410W)</td>
</tr>
</tbody>
</table>

**Power**

100V~110V, 200V~230V, 380V~400V

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### Optional parts

- Thread wiper device (S83101001)

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### S-7100A

**Single needle direct drive straight lock stitcher with thread trimmer**

With Brother-developed direct drive motor and cutting-edge technology, S-7100A offers user-friendly operation and high speed sewing without oil staining. The new hook enhances sewing capability for a wide range of materials.

- Comfortable and high speed sewing
- New hook enhances sewing capability
- High reliable electrical equipment
- Needle breakage prevention function
- Environment conscious

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**RoHS Compliance**

S-7100A is compliant with the RoHS directive evaluation criteria in all countries/regions where the model is sold.

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Phone 0-359-338-1600 Fax 0-359-337-2347 http://www.brother.com/
Speed & Clean

With Brother-developed direct drive motor and cutting-edge technology, S-7100A offers user-friendly operation and high speed sewing without oil staining. The new hook enhances sewing capability for a wide range of materials.

1. **Clean sewing without oil staining**

   Resolved oil staining with a minimum lubrication system to the needle bar
   
   Minimum lubrication system is used for oil supply around the needle bar where it is said to occupy approximately over 90% of all oil stain issues. It supplies limited oil only to the needle bar and thread take-up and prevents oil from being dispersed, realizing clean sewing for your valued products.

   ![Diagram of needle bar oil supply](image)

   No oil necessary in the oil pan
   
   Oil tank system has been adopted so it is not required to keep oil in the oil pan.

2. **The new hook enhances sewing capability**

   The new hook is improved the thread cast off enables to expand sewing range for medium materials. It also enhances the sewing capability for heavy materials.

   ![Diagram of new hook](image)

3. **Achieved 5,000 sti/min with high reliability**

   The max. sewing speed achieved 5,000 sti/min, increasing the productivity. Brother-developed direct drive motor and control box maximize the sewing performance while operating at the high speed. The machine can be used even in areas where the power situation is unstable.

   ![Diagram of high speed operation](image)

4. **Needle breakage prevention function**

   When reverse stitching is carried out with the actuator switch, needle breakage may occur. With thorough analysis of its cause, the function preventing the needle breakage has been introduced.

   ![Diagram of needle breakage prevention](image)

5. **Great needle penetration force**

   Powerful motor 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.

   ![Diagram of needle penetration force](image)

6. **Stable rotary-type thread trimmer**

   The rotary-type thread trimmer performs constant and stable thread trimming regardless of materials of threads with easy adjustment.

   ![Diagram of thread trimmer](image)

7. **LED handy light equipped as standard**

   LED handy light is equipped as standard which integrated with the actuator switch. The brightness can be adjusted on the operation panel.

   ![Diagram of LED handy light](image)

8. **High energy saving**

   The power consumption of the machine is approximately 50% less than that with the V-belt driven system (with an AC motor).

   This direct drive sewing machine offers the best energy saving in the industry.