

# 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 materials.

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



**Speed & Clean**

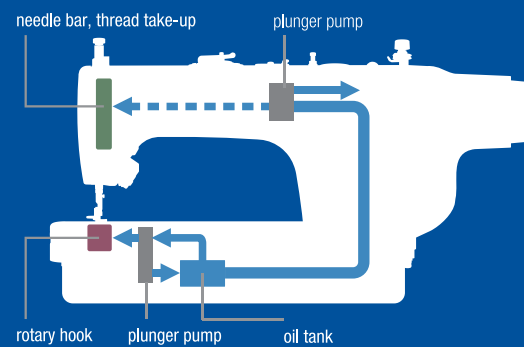
# Speed & Clean

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 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 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.



### No oil necessary in the oil pan

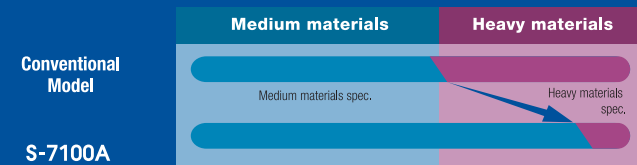
Oil tank system has been adopted so it is not required to keep oil in the oil pan.



## 2 The new hook enhances sewing capability

Same as S-7300A

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.



## 6 Stable rotary-type thread trimmer

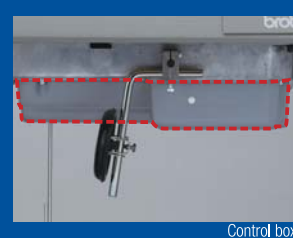
The rotary-type thread trimmer performs constant and stable thread trimming regardless of materials of threads with easy adjustment.



## 3 Achieved 5,000 sti/min with high reliability

Same as S-7300A

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 areas where the power situation is unstable.



## 7 LED handy light equipped as standard

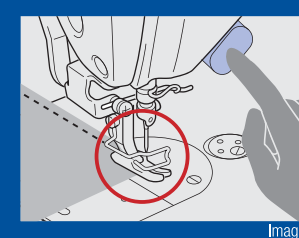
LED handy light is equipped as standard which integrated with the actuator switch. The brightness can be adjusted on the operation panel.



## 4 Needle breakage prevention function

Same as S-7300A

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.



## 8 High energy saving

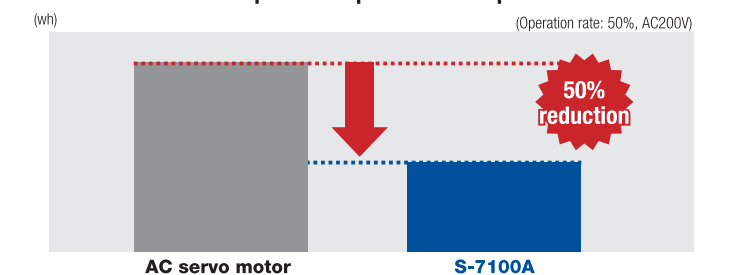
The power consumption of the machine is approximately 50% less than that with the V-belt driven system (with an AC motor). This direct drive sewing machine offers the best energy saving in the industry.

## 5 Great needle penetration force

Same as S-7300A

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.

### <Comparison of power consumption>



Specifications/

# S-7100A-0

|   |                       |                       |   |                                      |
|---|-----------------------|-----------------------|---|--------------------------------------|
|   | Quick reverse         | Thread wiper          |   | Application                          |
| 3 | <input type="radio"/> | -                     | 3 | Light materials and Medium materials |
| 4 | <input type="radio"/> | <input type="radio"/> | 5 | Heavy materials                      |

| S-7100A-              | -303, -403                           | -305, -405      |
|-----------------------|--------------------------------------|-----------------|
| Application           | Light materials and Medium materials | Heavy materials |
| Max. sewing speed     | 5,000sti/min*1                       | 4,000sti/min    |
| Max. stitch length    | 4.2mm                                | 5mm             |
| Thread take-up stroke | 57.9mm                               | 62mm            |
| Needle bar stroke     | 31mm                                 | 35mm            |
| Height of feed dog    | 0.8mm                                | 1.2mm           |
| Height of knee lifter | 6mm(lifting lever) 13mm(knee lifter) |                 |
| Bed size              | 570 x 350 x 285mm                    |                 |
| Weight(Machine head)  | 37kg                                 |                 |
| Arm pocket size       | Width: 266.5mm, Height: 127mm        |                 |
| Needle(DBx1, DPx5)    | #11~#18                              | #19~#22         |
| Lubrication oil       | High-speed spindle oil               |                 |
| Motor                 | AC servo motor(450W)                 |                 |
| Power*2               | 100V-110V, 200V-230V, 380V-400V      |                 |

\*1 The stitch length is 2.0mm or below.

\*2 Transformer box is necessary for except 200V.

**Optional parts/** Thread wiper device <SB4310001>



**RoHS Compliant**

S-7100A is compliant with the RoHS Directive(the restriction of the use of certain hazardous substances in electrical and electronic equipment) which came into effect in the EU in July 2006.



Brother has established voluntary environmental standards for products and created the "Brother Green Label". S-7100A is certified as an environment-conscious sewing machine according to the "Brother Green Label" standard.



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Please read instruction manual before using the machine for safety operation.  
-Product specifications are subject to change for improvement without notice.  
-Photographs are for illustration purpose. They may not represent actual operating conditions and may display optional parts.

|                                   |   |   |                  |
|-----------------------------------|---|---|------------------|
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