# S-7250A

**Single Needle Direct Drive Lock Stitcher with Electronic Feeding System and Thread Trimmer**

**Best Productivity is DigiFlex Feed**
- Equipped with the innovative DigiFlexFeed System for high productivity
- Simple and easy-to-use standard lock stitch machine with selected functions
  - Reduces needle breakage, puckering and materials slippage with DFF
  - Elimination of oil stains due to the adoption of the sealed type oil pan.
  - Productivity improvement management by utilizing IoT

## Application
- For medium-weight materials
- For heavy-weight materials

## Specification
- Minimum lubrication

<table>
<thead>
<tr>
<th>S-7250A</th>
<th>...-400</th>
<th>...-401S</th>
<th>...-402P</th>
<th>...-403P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lubrication type</strong></td>
<td>Minimum lubrication</td>
<td>Minimum lubrication</td>
<td>Minimum lubrication</td>
<td>Minimum lubrication</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Medium materials</td>
<td>Heavy materials</td>
<td>Medium materials</td>
<td>Heavy materials</td>
</tr>
<tr>
<td><strong>Max. sewing speed</strong></td>
<td>5000st/min</td>
<td>4000st/min</td>
<td>5000st/min</td>
<td>4000st/min</td>
</tr>
<tr>
<td><strong>Max. back tacking speed</strong></td>
<td>3000st/min</td>
<td>4000st/min</td>
<td>3000st/min</td>
<td>4000st/min</td>
</tr>
<tr>
<td><strong>Max. feed length</strong></td>
<td>5mm</td>
<td>5mm</td>
<td>5mm</td>
<td>5mm</td>
</tr>
<tr>
<td><strong>Thread trimming mechanism</strong></td>
<td>Single action trimming mechanism (Ordinary speed)</td>
<td>Double action trimming mechanism</td>
<td>Double action trimming mechanism</td>
<td>Double action trimming mechanism</td>
</tr>
<tr>
<td><strong>Presser foot height</strong></td>
<td>Presser bar lifter: 6mm, Knee lifter: 13mm</td>
<td>Presser bar lifter: 6mm, Knee lifter: 13mm</td>
<td>Presser bar lifter: 6mm, Knee lifter: 13mm</td>
<td>Presser bar lifter: 6mm, Knee lifter: 13mm</td>
</tr>
<tr>
<td><strong>Needle bar stroke</strong></td>
<td>31mm</td>
<td>35mm</td>
<td>31mm</td>
<td>35mm</td>
</tr>
<tr>
<td><strong>Needle (DBX1-DPX5)</strong></td>
<td>#11-#18 (No.75-110)</td>
<td>#19-#22 (No.135-140)</td>
<td>#11-#18 (No.75-110)</td>
<td>#19-#22 (No.135-140)</td>
</tr>
<tr>
<td><strong>Height of feed dog</strong></td>
<td>0.8mm</td>
<td>1.2mm</td>
<td>0.8mm</td>
<td>1.2mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>35kg</td>
<td>35kg</td>
<td>35kg</td>
<td>35kg</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>AC serve motor</td>
<td>AC serve motor</td>
<td>AC serve motor</td>
<td>AC serve motor</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>100-110V/50-60Hz, 200V/10-12A</td>
<td>100-110V/50-60Hz, 200V/10-12A</td>
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<td>100-110V/50-60Hz, 200V/10-12A</td>
</tr>
</tbody>
</table>

*1 Stitch length 2.9mm and under
*2 The transformer is required.

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**RoHS**

Brother has met RoHS2 regulations, ensuring products are free of hazardous substances. This model is a RoHS2 compliant product. Please refer to the manufacturer’s manual for warranty and support information.

**BROTHER INDUSTRIES, LTD.**

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Best Productivity is DigiFlex Feed

DigiFlex Feed
Direct Electronic Feed Control

DigiFlex Feed, which is world’s first equipped on S-7300A and highly evaluated in the market, digitalizes feeding system and resolves various sewing troubles without adjustment work.

- Improvement in the reduction of needle breakage and productivity.
- Simple select and smooth sewing without material slippage.
- Excellent sewing quality that’s easy to get proper thread tension in accordance with several materials.

<table>
<thead>
<tr>
<th>Feed motion image</th>
<th>Main features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Ovat feed</td>
<td>Reduced material slippage</td>
</tr>
<tr>
<td>DigiFlex Feed No.1 Front-rise feed</td>
<td>Improved thread tightening</td>
</tr>
<tr>
<td>DigiFlex Feed No.2 Back-rise feed</td>
<td>Reduced bucking</td>
</tr>
<tr>
<td>DigiFlex Feed No.3 Rectangular feed</td>
<td>Less needle breakages</td>
</tr>
</tbody>
</table>

Needle Breakage Prevention with Brother Own 3 Functions

1. Optimization of fabric feed timing by changing feed motion of DFF
   Fabric can be feed at an appropriate timing so that needle won’t break even during thick material sewing.

2. Change from mechanical control to stepping motor control by equipped DFF
   Compared to conventional mechanical control, the stepping motor control makes the response of reverse sewing quicker and reduces needle breakage.

3. Equipped with needle prevent breakage function while reverse sewing
   Sensing needle position and controlling proper feed timing that prevent from unreasonable reverse sewing as needle breaks automatically.

A Variety of Functions Realize Ease of Use and Ideal Sewing Quality

4. Beautiful stitching without puckering
   DFF realizes appropriate thread tightening in relation with the fabric and reduces puckering.

5. Short remaining thread, (3mm) doesn’t require after cutting process
   The new double action thread trimming mechanism cut’s the thread right under the needle hole, realizing the short remaining thread at minimum of 3mm. The disposition of thread ends after sewing can be reduced thanks to the new system. (Premier Epic)

6. Oil staining prevention
   The closed oil tank enables clean sewing more than conventional models that does stain sewing material. The minimum lubrication system prevents problems such as oil leakage and oil scattering drastically.

7. Easy operation with a simple panel
   You can change the stitch length and sewing speed easily. In addition, it is possible to set the stitch length as a numerical value, and the reproducibility of sewing is improved.

8. Stress relief at reverse sewing
   Because the reverse sewing is changed to motor control, vibration and noise are suppressed. It contributes a stress relief.

9. Reduction of hanging fabric
   By arranging rubber on the back side which had been installed at the four corners of the bed of the sewing machine on the surface, it becomes easier to handle the fabric.

Productivity Improvement by Improving Production Management with IoT

10. Productivity improvement with IoT
    NEXIO series are IoT applicable models. The visualization by connecting sewing machine and computer technology enables the customer to analyze, manage processes and speed up productivity improvement and maintenance work.

11. Easy and secure data management with USB
    Data transfer to other sewing machines and software upgrade can be done with USB memory easily.