















Specification/

# S-7780A-503

S-7780A	-503
Lubrication type	Minimum lubrication
Application	Medium materials
Max. sewing speed	4,500sti/min
Max. stitch length	4mm
Feed system	Bottom-feed
Presser foot height	Presser bar lifter: 5mm, Knee lifter: 13mm
Needle bar stroke	31mm
Needle(DBx1)	#11-#18(Nm75-110)
Standard cutting width	3.2mm(1/8) or 6.4mm(1/4)
Max. thickness of the material to be cut	4mm
Quick back device	Standard equipment
Thread presser	Standard equipment
Weight	37kg
Power	Single phase, 3-phase : 200V-230V / Max. electric power consumption 550VA

Gauge parts list/

Name of parts	mm(inch)	2.5mm(3/32)	3.2mm(1/8)	4.0mm(5/32)	4.8mm(3/16)	6.4mm(1/4)	9.5mm(3/8)
Material guide		 SC0332201				 SC0333201	
Feed dog		 S10583001				 S10584001	
Needle plate		 S10569101 2.5mm	 S10570101 3.2mm	 S10571101 4mm	 S10572101 4.8mm	 S10573101 6.4mm	 S10574101 9.5mm
Presser foot Assy		 S10576101		 S36895001		 113280121  S36899021	



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**RoHS Compliant**

S-7780A is compliant with the RoHS Directive which came into effect in the EU.



Brother has established voluntary environmental standards for products and created the "Brother Green Label". S-7780A 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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# S-7780A

## Single Needle Direct Drive Lock Stitcher with Side Cutter, Electronic Feeding System and Thread Trimmer

Sewing and cutting of fabric can be performed simultaneously, and the thread trimming function at the end of sewing contributes to improved productivity. Equipped with "DigiFlex Feed", an electronic digital feed mechanism that has a reputation for high quality in the market.

- "DigiFlex Feed" simplifies feeding adjustments that resolve sewing issues
- Good response, providing ease when sewing by the direct drive motor
- Oil staining prevention
- Changes between normal sewing and cutting while sewing with a single touch



# NEXIO

# Greater Quality with DigiFlex Feed

Sewing and cutting of fabric can be performed simultaneously, and the thread trimming function at the end of sewing contributes to improved productivity.

Equipped with "DigiFlex Feed", an electronic digital feed mechanism that has a reputation for high quality in the market.

## DigiFlex Feed Direct Electronic Feed Control

DigiFlex Feed, which is world's first equipped on S-7300A and widely recognized in the market, digitalizes the feeding system and simplifies the feeding adjustments that resolves sewing issues.

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

	Feed motion image	Main features
Standard Oval feed		Reduced material slippage
DigiFlex Feed No.1 Front rise feed		Improved thread tightening
DigiFlex Feed No.2 Back rise feed		Reduced puckering
DigiFlex Feed No.3 Rectangular feed		Less needle breakages



### 1 Good response, comfortable sewing by the direct drive motor

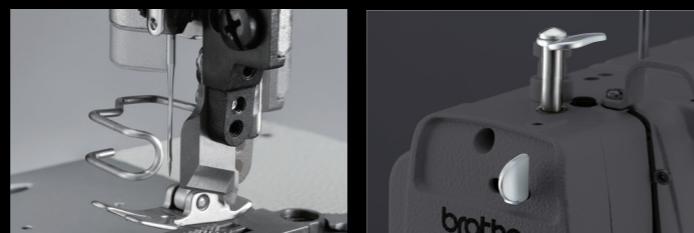
Compared to conventional under-table servo motor control, the pulse motor control makes starting and stopping of sewing quicker.

The direct drive mechanism provides reliability with the unique built-in direct drive motor developed by Brother.



### 3 Changes between normal sewing and cutting while sewing at a single touch

The side cutter can be raised and lowered at a single touch using an easy-to-operate lever. This lets you change easily between normal sewing and cutting while sewing.



### 5 Wide waste opening

Scraps cut from the material are conveyed smoothly through the wide opening of the waste chute. This keeps the top of the work table clean at all times and lets the next operation proceed without concern. In addition, when not using the side cutter feature, the sewing machine can be used as a common, straight, lock stitcher by attaching a needle plate cover.



### 2 Oil staining prevention

The closed oil tank provides clean sewing capability.

The minimum lubrication system prevents problems such as oil leakage and oil scattering while sewing.



### 4 Equipped with highly reliable thread trimer mechanism

Equipped with an automatic rotary thread trimming mechanism with a proven design of robust performance and reliability. This enables stable thread trimming.

### 6 Productivity Improvement with IoT

This model is IoT applicable.\* The visualization by connecting sewing machine and computer technology enables the customer to analyze, manage processes remotely that allow for a faster response to improving productivity, process improvement and addressing maintenance concerns.



\*It is applicable for Brother's IoT system. For more information, please refer to the catalog of "Brother Industrial Sewing Machine Network System".

### 7 Examples of suitable processes

