

Specification/

T-8421D / T-8422D / T-8452D T-8722D / T-8752D

	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
Stitch			Twin needle lock stitch		
Start backtacking and continuous backtacking speed			250~1,800stf / min		
End backtacking speed			1,000stf / min		
Height of feed dog			1mm		
Arm pocket size			120mm x 264mm		
Arm bed size			517.5mm x 178mm		
Bobbin winder			Included in machine arm		
Quick back device			Standard equipment		
Thread wiper	None	Standard equipment			
Thread trimmer type	None	Straight / Arc			
Machine head drive		Direct drive mechanism			
Motor		AC servo motor(550W)			
Weight		47kg	50kg	50.3kg	
Power		Single-phase: 110V ¹⁾ , three-phase: 200V-230V Max. electric power consumption 500VA			
		7.7kg			

¹⁾ The transformers is required.

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T-8421D

Twin needle direct drive lock stitcher

T-8422D

Twin needle direct drive lock stitcher with thread trimmer

T-8452D

Twin needle direct drive split needle bar lock stitcher with thread trimmer

T-8722D

Twin needle direct drive lock stitcher with large hook and thread trimmer

T-8752D

Twin needle direct drive split needle bar lock stitcher with large hook and thread trimmer

Equipped with the Color LCD touch panel, the functionality becomes easier to use.

The needle breakage prevention function which prevents the needle breakage when reverse stitching is carried out with the quick back switch.

This contributes to the improvement of the operator's work efficiency.

- User- intuitive Color LCD Display Touch Panel
- Productivity improvement with IoT capabilities
- Straight type thread trimmer is newly launched



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**RoHS
Compliant**

T-8421D-T-8422D-T-8422D-T-8452D-T-8752D is compliant with the RoHS Directive with the restriction of the use of certain hazardous substances in electrical and electronic equipment which came into effect in the EU in July 2006.

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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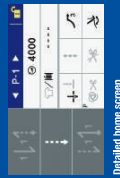
Further Progress Based on Reliability

Equipped with the Color LCD touch panel, the functionality becomes easier to use. The needle breakage prevention function which prevents the needle breakage when reverse stitching is carried out with the quick back switch. This contributes to the improvement of the operator's work efficiency.

1 User-intuitive Color LCD Display Touch Panel

The Color LCD display touch panel display items with illustration icons, offering easy user-intuitive operation.

There are three types of operator panel display. All the detailed home screen, quick home screen and easy home screen are easy to use without concern for panel operation.



Detailed home screen



Quick home screen



Easy home screen

2 Productivity improvement with IoT capabilities

This model is IoT applicable. The visualization by connecting sewing machine and computer technology enables the customer to analyze, manage processes and speed up productivity improvement and maintenance work.

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

3 Equipped with needle breakage prevention function while reverse sewing

We thoroughly investigated the cause of the needle breakage and needle point crushing problem that frequently occur in thick fabric backstitching and equipped this model with the function to prevent needle breakage. In addition, the quick back switch is located at a position where the operator can easily press, contributing to improved productivity.



4 Reliable sewing with strong needle penetration

Powerful 550W motor outputs large amounts of torque even at slow speeds so that strong needle penetration force can be obtained. This allows accurate sewing of heavy materials and joints. If the needle penetration resistance increases when sewing heavy materials and materials with joints, vibration control (intermittent impact) automatically increases the penetration force. (Patent pending)

5 In-house development improves control board reliability furthermore

We adopted the control circuit board design which has been proven effective in other models and strengthened the ability to cope with the voltage fluctuations. In addition, vibration resistance is improved, and you can use it safely in various environments.

6 Select thread trimming type according to your application*

We have newly launched our twin needle version with straight motion thread trimmer system in addition to the well-established arc motion thread trimmer. In this straight motion specification, the fixed knife is attached to the rotary hook base, so thread trimming adjustment is easy when replacing the needle gauge. It is easy to adjust the knife pressure, especially when using thick thread.

*Depends on the model, thread trimming type is not selectable.



Straight thread trimmer

Arc thread trimmer

7 Improve sewing quality by feeding method according to the process

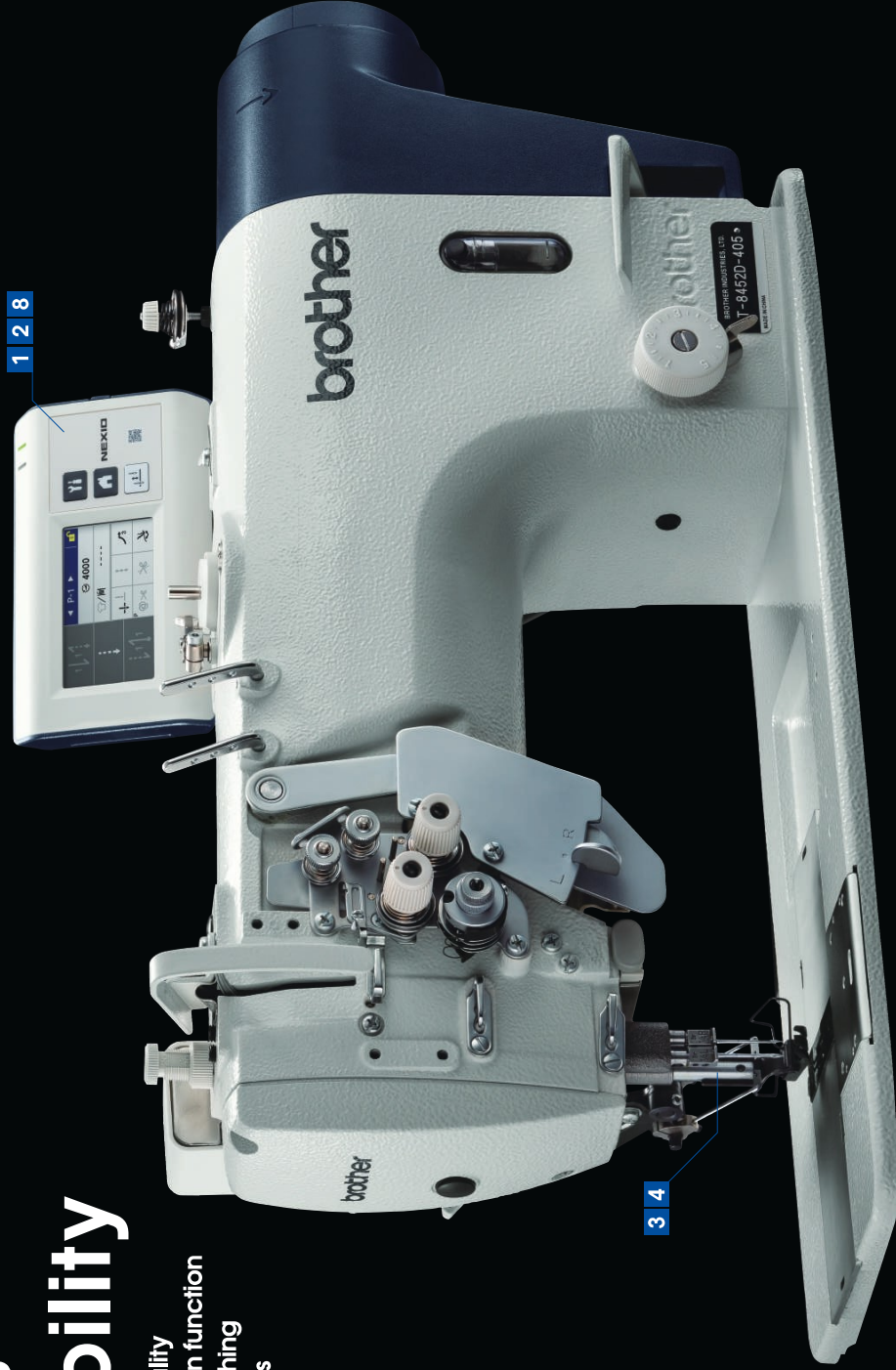
A function to switch between needle feed and lower feed is equipped as a standard function. Needle feed is effective in preventing uneven material feeding, and lower feed prevents puckering and is ideal for making quick and frequent turns. The operator can select the optimum feed method according to the material and the process, so that sewing quality can be increased.

8 USB port on operation panel

The Display panel is equipped with a USB port so sewing patterns and various environmental settings can be copied and shared easily with other sewing machines of the same function. This also permits software upgrades to be performed using the USB media.



1 2 8



3 4

Twin needle lock stitcher series

Models	DD Direct Drive	Split needle bar	Bottom feed	Needle feed	Standard hook	Double hook	Thread trimmer type	Thread wiper	Quick back device
T-8421D	○	—	○	○	○	—	—	—	○
T-8422D	○	—	○	○	○	—	Straight / Arc	○	○
T-8452D	○	○	○	○	○	—	Straight / Arc	○	○
T-8722D	○	○	○*	○	○	—	Straight / Arc	○	○
T-8752D	○	○	○*	○	○	○	Straight / Arc	○	○

*Max. stitch length is limited

T-8421D-T

Additional functions	Lubrication type	Applications
Quick back device	Minimum Lubrication	Foundation
	Semi-dry	Light and Medium materials

Twin needle direct drive lock stitcher



T-8421D

Models	-TOF	-T03	-T0E
Lubrication type	Minimum Lubrication	Foundation	Semi-dry
Applications	Light and Medium materials	Foundation	Light and Medium materials
Max. sewing speed	4,000st / min	3,000st / min	3,000st / min
Needle	DP × 5 (#11)	DP × 5 (#14)	DP × 5 (#11)
Max. stitch length	4mm	4mm	7mm
Presser foot height	7mm	7mm	7mm

T-8422D-0

Additional functions	Lubrication type	Applications
Quick back device	Minimum Lubrication	Light and Medium materials
Arc thread trimmer		Heavy materials

Twin needle direct drive lock stitcher with thread trimmer



T-8422D

Models	-S03	-S05	-S06	-S07	-S08
Lubrication type	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication
Applications	Light and Medium materials	Light and Medium materials	Light and Medium materials	Heavy materials	Heavy materials
Max. sewing speed	4,000st / min	3,000st / min	3,000st / min	3,000st / min	3,000st / min
Thread trimmer type	Straight	Arc	Straight	Arc	Arc
Needle	DP × 5 (#14)	DP × 5 (#22)	DP × 5 (#14)	DP × 5 (#22)	DP × 5 (#22)
Max. stitch length	4mm	4mm	4mm	5mm	5mm
Presser foot height	7mm	7mm	7mm	7mm	7mm

T-8452D-0

Additional functions	Lubrication type	Applications
Quick back device	Minimum Lubrication	Light and Medium materials
Arc thread trimmer		Heavy materials

Twin needle direct drive split needle bar lock stitcher with thread trimmer



T-8452D

Models	-S03	-S05	-S06	-S07	-S08
Lubrication type	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication
Applications	Light and Medium materials	Light and Medium materials	Light and Medium materials	Heavy materials	Heavy materials
Max. sewing speed	3,000st / min	3,000st / min	3,000st / min	3,000st / min	3,000st / min
Thread trimmer type	Straight	Arc	Straight	Arc	Arc
Needle	DP × 5 (#14)	DP × 5 (#22)	DP × 5 (#14)	DP × 5 (#22)	DP × 5 (#22)
Max. stitch length	5mm	5mm	5mm	7mm	7mm
Presser foot height	7mm	7mm	7mm	7mm	7mm

T-8722D-0

Additional functions	Lubrication type	Applications
Quick back device	Minimum Lubrication	Heavy materials
Arc thread trimmer		Heavy materials
Quick back device		(For extra thick thread)

Twin needle direct drive lock stitcher with large foot and thread trimmer



T-8722D

Models	-S05	-S05	-S07	-S07
Lubrication type	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication
Applications	Heavy materials	Heavy materials	Heavy materials	Heavy materials
Max. sewing speed	3,000st / min	3,000st / min	3,000st / min	3,000st / min
Thread trimmer type	Straight	Arc	Straight	Arc
Needle	DP × 5 (#22)	DP × 5 (#22)	DP × 5 (#22)	DP × 5 (#22)
Max. stitch length	7mm	7mm	7mm	7mm
Presser foot height	7mm	7mm	7mm	7mm

T-8752D-0

Additional functions	Lubrication type	Applications
Quick back device	Minimum Lubrication	Heavy materials
Arc thread trimmer		Heavy materials
Quick back device		(For extra thick thread)

Twin needle direct drive split needle bar lock stitcher with large foot and thread trimmer



T-8752D

Models	-S05	-S05	-S07	-S07
Lubrication type	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication	Minimum Lubrication
Applications	Heavy materials	Heavy materials	Heavy materials	Heavy materials
Max. sewing speed	3,000st / min	3,000st / min	3,000st / min	3,000st / min
Thread trimmer type	Straight	Arc	Straight	Arc
Needle	DP × 5 (#22)	DP × 5 (#22)	DP × 5 (#22)	DP × 5 (#22)
Max. stitch length	7mm	7mm	7mm	7mm
Presser foot height	7mm	7mm	7mm	7mm

Twin needle lock stitcher series

Straight thread trimmer standard gauge for needle feed

Needle gauge	T-8422D		T-8452D			T-8722D		T-8752D	
	-S03	-S05	-S07	-S03	-S05	-S07	-S05	-S07	-S05
3.2mm (1/8)		○			○		○		○
4.0mm (5/32)							○		○
4.8mm (3/16)					○		○		○
6.4mm (1/4)	⊗	○	○	⊗	○	⊗	⊗	⊗	⊗
7.9mm (5/16)		○		○	○		○		○
9.5mm (3/8)		○		○	○		○		○
11.1mm (7/16)									
12.7mm (1/2)		○		○	○		○		○
15.9mm (5/8)		○		○	○		○		○
19.1mm (3/4)		○							
22.2mm (7/8)		○							
25.4mm (1)									

⊗ Included as a standard gauge at the time of shipment from Brother.

Arc thread trimmer standard gauge for bottom feed

Needle gauge	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
	6.4mm (1/4)		Light materials ○	○	

Needle feed gauge for chaining off

Needle gauge	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
4.8mm (3/16)	○				

Needle feed gauge for heavy materials (Feed dog only)

Needle gauge	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
4.8mm (3/16)		○	○	○	○
6.4mm (1/4)		○	○	○	○

Arc thread trimmer standard gauge for needle feed

Needle gauge	T-8421D		T-8422D			T-8452D			T-8722D		T-8752D	
	-T0F	-T03 -T3F	-403	-405	-403	-405	-403	-405	-407	-405	-407	
3.2mm (1/8)		○	○	○	○	○	○	○	○	○	○	
4.0mm (5/32)												
4.8mm (3/16)	⊗	○	○	○	○	○	○	○	○	○	○	
6.4mm (1/4)		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
7.9mm (5/16)		○		○	○	○	○	○	○	○	○	
9.5mm (3/8)		○	○	○	○	○	○	○	○	○	○	
11.1mm (7/16)		○										
12.7mm (1/2)			○		○		○		○		○	
15.9mm (5/8)		○	○	○	○	○	○	○	○	○	○	
19.1mm (3/4)			○									
22.2mm (7/8)			○									
25.4mm (1)		○							○			

⊗ Included as a standard gauge at the time of shipment from Brother.

Option hooks

	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
Hook with cap	○	○	⊗	○	⊗
Extra lubrication hook	○				
Hook with reinforced hook point	○	○		○	○

⊗ Included as a standard gauge at the time of shipment from Brother.



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