

# 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			250~1,800sti / min		
End backtacking speed			1,000sti / min		
Height of feed dog			1mm		
Arm pocket size			120mm × 264mm		
Arm bed size			517.5mm × 178mm		
Bobbin winder			Included in machine arm		
Quick back device			Standard equipment		
Thread wiper	None		Standard equipment		
Thread trimmer type	None		Straight		
Machine head drive			Direct drive mechanism		
Mortor			AC servo motor(550W)		
Weight	Machine head	47kg	50kg		50.5kg
	Control box			7.7kg	
Power	Single-phase : 110V <sup>1</sup> , three-phase : 200V-230V Max. electric power consumption 500VA				

\*1 The transformers is required.



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**RoHS Compliant**

T-8421D, T-8422D, T-8722D, T-8452D, T-8752D 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". T-8421D, T-8422D, T-8722D, T-8452D, T-8752D 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.

CHINA	BROTHER MACHINERY SHANGHAI LTD.	<a href="https://www.brother.cn/">https://www.brother.cn/</a>	+86-21-3135-3355
ASIA	BROTHER MACHINERY (ASIA) LTD.	<a href="https://www.brother.com.hk/">https://www.brother.com.hk/</a>	+852-2777-0010
EUROPE AFRICA, MIDDLE EAST	BROTHER INTERNATIONALE INDUSTRIEMASCHINEN GmbH	<a href="https://www.brother-ism.com/">https://www.brother-ism.com/</a>	+49-2822-6090
AMERICAS	BROTHER INTERNATIONAL CORPORATION	<a href="https://www.brother-usa.com/">https://www.brother-usa.com/</a>	+1-908-704-1700

**BROTHER INDUSTRIES, LTD.**

1-5, Kitajizoyama, Noda-cho, Kariya-shi, Aichi 448-0803, Japan.  
Phone: 81-566-95-0088 Fax: 81-566-25-3721 <https://industrialsewingmachine.global.brother/>

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## T-8421D

Twin needle direct drive  
lock stitcher

## T-8722D

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

## T-8422D

Twin needle direct drive  
lock stitcher with thread trimmer

## T-8752D

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

## T-8452D

Twin needle direct drive  
split needle bar lock stitcher  
with 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



# NEXIO

# 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.



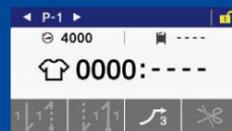
There are three types of operator panel display. All the detailed home screen, quick home screen and easy home screen are easy to use without concern for panel operation.



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)

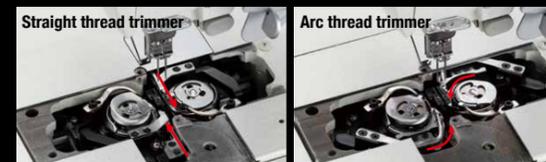
## 5 In-house development improves control board reliability furthermore

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.



## 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.



# 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	○	○
T-8452D	○	○	○	○	○	—	Straight	○	○
T-8722D	○	—	○*	○	—	○	Straight	○	○
T-8752D	○	○	○*	○	—	○	Straight	○	○

\*Max. stitch length is limited

## T-8452D-0

Additional functions  
Quick back device  
Thread wiper  
Straight thread trimmer

Lubrication type  
Minimum lubrication

Applications  
Light and Medium materials  
Heavy materials

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

T-8452D	-S03	-S05
Lubrication type	Minimum lubrication	
Applications	Light and Medium materials	Heavy materials
Max. sewing speed	3,000sti / min	
Thread trimmer type	Straight	
Needle	DP × 5 (#14)	DP × 5 (#22)
Max. stitch length	5mm	
Presser foot height	7mm	



T-8452D

## T-8421D-T

Additional functions  
Quick back device

Lubrication type  
Minimum lubrication  
Semi-dry

Applications  
Foundation  
Light and Medium materials

### Twin needle direct drive lock stitcher

T-8421D	-T0F	-T03	-T3F
Lubrication type	Minimum lubrication		Semi-dry
Applications	Foundation	Light and Medium materials	Foundation
Max. sewing speed	4,000sti / min		
Needle	DP × 5 (#11)	DP × 5 (#14)	DP × 5 (#11)
Max. stitch length	4mm		
Presser foot height	7mm		



T-8421D

## T-8722D-0

Additional functions  
Quick back device  
Thread wiper  
Straight thread trimmer

Lubrication type  
Minimum lubrication

Applications  
Heavy materials  
Heavy materials (For extra thick thread)

### Twin needle direct drive lock stitcher with large fook and thread trimmer

T-8722D	-S05	-S07
Lubrication type	Minimum lubrication	
Applications	Heavy materials	Heavy materials (For extra thick thread)
Max. sewing speed	3,000sti / min	
Thread trimmer type	Straight	
Needle	DP × 5 (#22)	
Max. stitch length	7mm	
Presser foot height	7mm	



T-8722D

## T-8422D-0

Additional functions  
Quick back device  
Thread wiper  
Straight thread trimmer

Lubrication type  
Minimum lubrication

Applications  
Light and Medium materials  
Heavy materials

### Twin needle direct drive lock stitcher with thread trimmer

T-8422D	-S03	-S05
Lubrication type	Minimum lubrication	
Applications	Light and Medium materials	Heavy materials
Max. sewing speed	4,000sti / min	3,000sti / min
Thread trimmer type	Straight	
Needle	DP × 5 (#14)	DP × 5 (#22)
Max. stitch length	4mm	5mm
Presser foot height	7mm	



T-8422D

## T-8752D-0

Additional functions  
Quick back device  
Thread wiper  
Straight thread trimmer

Lubrication type  
Minimum lubrication

Applications  
Heavy materials  
Heavy materials (For extra thick thread)

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

T-8752D	-S05	-S07
Lubrication type	Minimum lubrication	
Applications	Heavy materials	Heavy materials (For extra thick thread)
Max. sewing speed	3,000sti / min	
Thread trimmer type	Straight	
Needle	DP × 5 (#22)	
Max. stitch length	7mm	
Presser foot height	7mm	



T-8752D

# 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	-S07
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
			Light materials		
6.4mm(1/4)		○	○		

## 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	-405	-407	-403	-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.