

# 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

Machine is equipped with Color LCD touch panel, which improves the usability.

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 Touch Panel
- Productivity improvement with IoT capabilities



# NEXIO

# Further Progress Based on Reliability

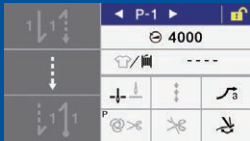
Equipped with the Color LCD touch panel, the machine becomes easier to use. The needle breakage prevention function which prevents the needle breakage when reverse stitching is carried out with the quick back switch. This contributes to the improvement of the operator's work efficiency.

## 1 User-intuitive Color LCD Touch Panel

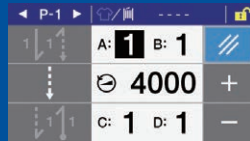
The Color LCD touch panel display items with illustrated icons, offering easy user-intuitive operation.



Three different homescreens are available, by pressing and holding the homekey.



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 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. That's why we equipped this model with the needle breakage prevention function. In addition, the quick back switch is located at a position where the operator can easily press, what contributes 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.

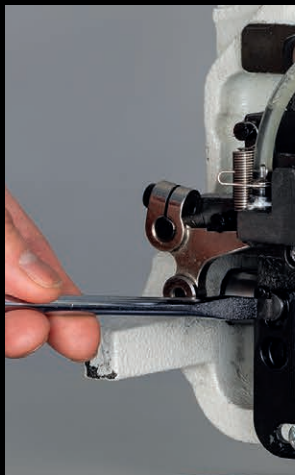




1 2 8

**6 Reduce downtime with easy gauge replacement**

Cam adopted in the lateral position adjustment mechanism for the rotary hook base allows easy fine adjustments for clearance between the needle and rotary hook point can easily be made. This greatly increases the efficiency of replacing gauge parts. Furthermore, a needle drop correction function (sideways) is provided, so that the needle drop position can still be adjusted to the center of the needle hole even if using commercially-available gauge parts. The gauge parts for previous models can still be used without any changes.



**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**

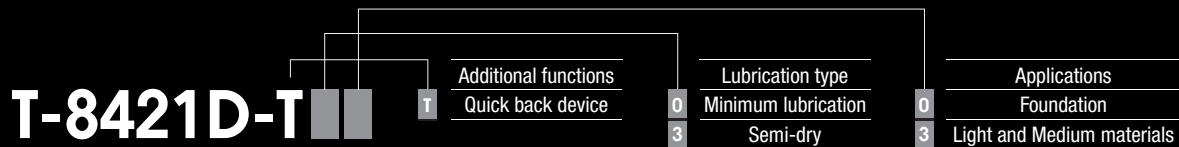
The Display panel is equipped with a USB port so sewing patterns and other settings can be copied and shared easily with other sewing machines of the same function. This also permits software upgrades to be performed using the USB media.



# Twin needle lock stitcher series

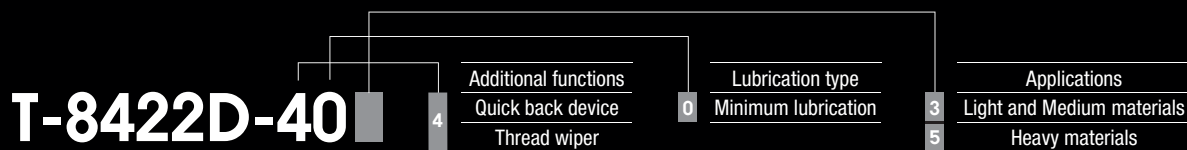
Models	DD Direct Drive	Split needle bar	Bottom feed	Needle feed	Standard hook	Double hook	Thread Trimmer	Thread wiper	Quick back device
T-8421D	○	—	○	○	○	—	—	—	○
T-8422D	○	—	○	○	○	—	○	○	○
T-8452D	○	○	○	○	○	—	○	○	○
T-8722D	○	—	○*	○	—	○	○	○	○
T-8752D	○	○	○*	○	—	○	○	○	○

\*Max. stitch length is limited



## 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	4,000sti / min	3,000sti / min
Needle	DP × 5 (#11)	DP × 5 (#14)	DP × 5 (#11)
Max. stitch length	4mm	4mm	4mm
Presser foot height	7mm	7mm	7mm

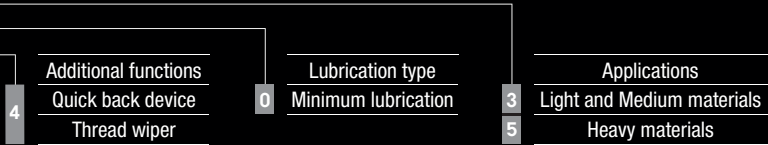


## Twin needle direct drive lock stitcher with thread trimmer

T-8422D	-403	-405
Lubrication type	Minimum lubrication	
Applications	Light and Medium materials	Heavy materials
Max. sewing speed	4,000sti / min	3,000sti / min
Needle	DP × 5 (#14)	DP × 5 (#22)
Max. stitch length	4mm	5mm
Presser foot height	7mm	7mm



# T-8452D-40



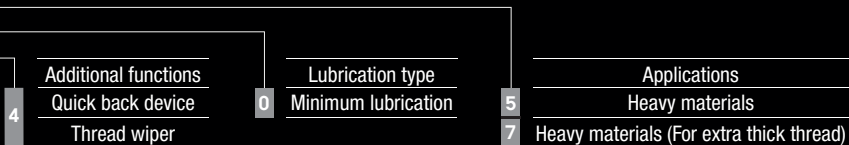
**Twin needle direct drive split needle bar lock stitcher with thread trimmer**

T-8452D	-403	-405
Lubrication type	Minimum lubrication	
Applications	Light and Medium materials	Heavy materials
Max. sewing speed	3,000sti / min	
Needle	DP × 5 (#14)	DP × 5 (#22)
Max. stitch length	5mm	
Presser foot height	7mm	



T-8452D

# T-8722D-40



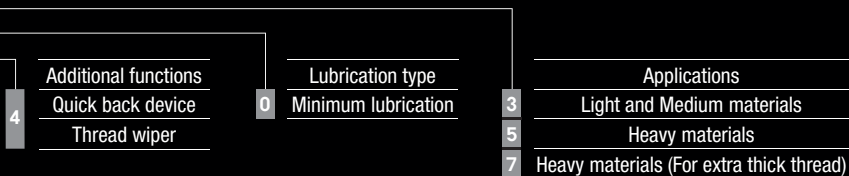
**Twin needle direct drive lock stitcher with large fook and thread trimmer**

T-8722D	-405	-407
Lubrication type	Minimum lubrication	
Applications	Heavy materials	
Max. sewing speed	3,000sti / min	
Needle	DP × 5 (#22)	
Max. stitch length	7mm	
Presser foot height	7mm	



T-8722D

# T-8752D-40



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

T-8752D	-403	-405	-407
Lubrication type	Minimum lubrication		
Applications	Light and Medium materials	Heavy materials	
Max. sewing speed	3,000sti / min		
Needle	DP × 5 (#14)	DP × 5 (#22)	
Max. stitch length	7mm		
Presser foot height	7mm		



T-8752D

# Twin needle lock stitcher series

## 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.

## 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

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

## Needle feed gauge for extra heavy materials

Needle gauge	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
3.2mm(1/8)	○				
4.8mm(3/16)	○				
6.4mm(1/4)	○				

## Standard gauge for bottom feed

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

## Bottom feed gauge for placket

Needle gauge	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
	Light Materials				
22mm	○				

## Option hooks

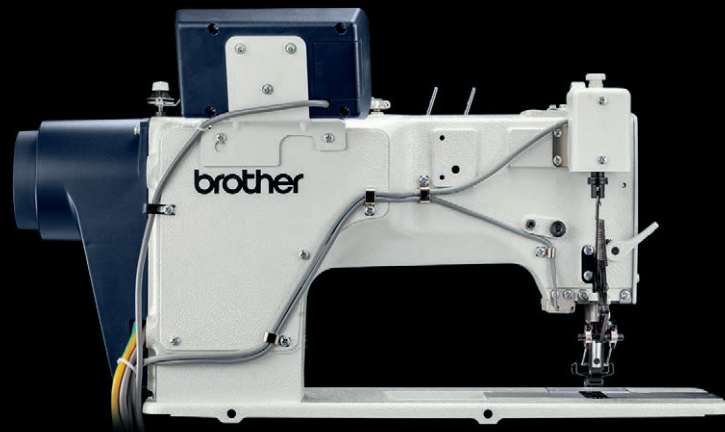
	T-8421D	T-8422D	T-8452D	T-8722D	T-8752D
Hook with cap	○	○	◎	○	◎
Extra lubrication hook	○	○			
Hook with reinforced hook point	○	○		○	

◎ Included as a standard hook at the time of shipment from Brother.

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		250~1,800sti / 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				
Machine head drive		Direct drive mechanism				
Mortor		AC servo motor(550W)				
Weight	Machine head	47kg	50kg	50.5kg	50kg	50.5kg
	Control box	7.7kg				
Power		Single-phase, 3-phase: 200V-230V / Max. electric power consumption 400VA				



Facebook

## 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.

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.



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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