

T-8421D / T-8422D / T-8722D

T-8452D / T-8752D

| | T-8421D | T-8422D | T-8722D | T-8452D | 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 | | | | |
| Motor | AC servo motor(550W) | | | | |
| Weight | Machine head | 47kg | 50kg | 50kg | 50.5kg |
| | Control box | 7.7kg | | | |
| Power | Single-phase: 200V-230V / Max. electric power consumption 400VA | | | | |

T-8421D

Twin needle direct drive
lock stitcher

T-8422D

Twin needle direct drive
lock stitcher with thread trimmer

T-8722D

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

T-8452D

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

T-8752D

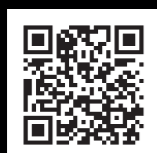
Twin needle direct drive
split needle bar lock stitcher
with large hook and thread trimmer

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



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.



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

brother

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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NEXIO

Further Progress Based on Reliability

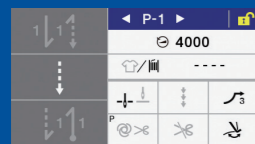
Equipped with the Color LCD touch panel, the functionality becomes easier to use. The needle breakage prevention function which prevents the needle breakage when reverse stitching is carried out with the quick back switch. This contributes to the improvement of the operator's work efficiency.

1 User-intuitive Color LCD Display Touch Panel

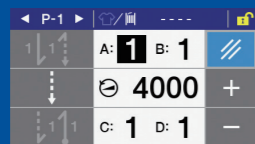
The Color LCD display touch panel display items with illustration icons, offering easy user-intuitive operation.



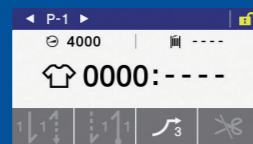
There are three types of operator panel display. All the detailed home screen, quick home screen and easy home screen are easy to use without concern for panel operation.



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 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 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

Features

| 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

T-8452D-40

Additional functions
Quick back device
Thread wiper

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 | -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-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 | 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 |



T-8421D

T-8722D-40

Additional functions
Quick back device
Thread wiper

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 | -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-8422D-40

Additional functions
Quick back device
Thread wiper

Lubrication type
Minimum lubrication

Applications
Light and Medium materials
Heavy materials

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-8422D

T-8752D-40

Additional functions
Quick back device
Thread wiper

Lubrication type
Minimum lubrication

Applications
Light and Medium materials
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 | -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.