Low noise and low vibration for stress-free operation

The sewing machine frame is highly rigid, and computer analysis has been used for designing everything down to the smallest detail, to create a shape which produces less noise and vibration. This reduces operator fatigue and greatly eliminates stress.

Easy to maintain

• Machine head can be tilted back easily
  Maintenance tasks that require the machine head to be tilted back have also been made safer. A safety sensor is provided to stop the motor from operating while the head is tilted, even if the treadle is depressed.
  No lubrication required (1 - 4)
  The complete dry-type head uses a lubrication-free rotary hook, and no oil is used around the needle bar, thread take-up or rotary hook mechanism. As a result, no lubrication is required at all.

• Automatic greasing notification
  The running time for the sewing machine is recorded, and when it is time for the greasing maintenance that is indispensable for dry head sewing machines to be carried out, a notification appears automatically on the panel. (Use only Brother grease to ensure excellent durability.)

• Gearbox oil level can be checked at a glance
  The oil level inside the gearbox can be checked visually. In addition, the gearbox has a heat-discharging construction with fin.

Premier energy-saving design in the industry

The brand new built-in direct-drive motor has an optimized design that utilizes magnetic field analysis, and is the most compact motor of its type in the industry. And instead of using a V-belt, the drive power is transmitted directly to the machine head with no losses, so that any losses in energy are reduced to an absolute minimum. This new motor has an energy-saving performance that is a further improvement on previous direct-drive motors. Compared to V-belt driven systems (AC servo motors), losses in efficiency are reduced by approximately 40% (compared to the previous Brother model), meaning that this model tops the industry in energy saving.

Specifications

<table>
<thead>
<tr>
<th>S-7200A-</th>
<th>Quick back</th>
<th>Thread winder</th>
<th>Sewing speed range</th>
</tr>
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<tbody>
<tr>
<td>(rpm)</td>
<td>(rpm)</td>
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<td>(rpm)</td>
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<tr>
<td>Max. seam width</td>
<td>220 - 3,000</td>
<td>220 - 3,000</td>
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<table>
<thead>
<tr>
<th>Lubrication type</th>
<th>For medium materials</th>
<th>Lubricated for heavy materials</th>
<th>Lubricated for lightweight materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease type</td>
<td>Special Brother grease</td>
<td>Special Brother grease</td>
<td>Special Brother grease</td>
</tr>
</tbody>
</table>

In operation, the needle bar speed is automatically controlled to suit sewing speed and stitch length, ensuring the machine operates smoothly.

Brother was the first in the industry to release direct-drive plain lockstitchers. The S-7200A is our leading DD lockstitcher which has been developed from many years of research and success in the market.

Smooth sewing with direct drive system

The direct-drive system optimizes the plain lockstitching processes that require operator control. The direct-drive mechanism provides superb levels of reliability through the use of a unique built-in direct-drive motor developed by Brother. The S-7200A provides greater responsiveness to the operator’s intentions. Minute speed adjustments can be made as required when sewing curves to make sewing even smoother.

• Good response and smooth sewing performance
• No staining of the product
• Easy-to-understand and easy-to-use operation panel
• Comfortable operation with low noise and low vibration
• Easy to maintain
• Economical to use with low power consumption

Product specifications are subject to change in response to machine improvement. Please read instruction manual before using the machine for safety operation.
Easy for operators to use

- Unobstructed view of needle area
  The height of the arm jaw is raised to 71mm. Plenty of space is provided around the needle so that the sewing area can be easily checked visually.
- Extra space makes working more comfortable
  Adoption of the direct-drive system means that there is no motor underneath the table. The extra space thus provided underneath the table can be effectively utilized to make working more comfortable.
- Quickback device
  This is located in a place where it can be pressed easily in order to increase working efficiency.

Wide arm pocket makes handling sewing articles easy

The S-7200A has an arm pocket width of 300 mm and an arm height of 136 mm. These wide arm pockets dimensions make it much easier to move and position the sewing article.

Friendly to the environment

Brother has created its own "Brother Green Label" classification for products that conform to the ISO 14021 international industrial standard and the JIS Q14021 Japanese industrial standard. The S-7200A complete dry-type head conforms to this classification. The premier energy-saving design in the industry*, zero consumption of sewing machine oil and a 35% or more reduction in vibration makes this a very environmentally friendly sewing machine.

*Compared to other products, January-February 2003.
**Compared to previous S7200A.

Designing provides ease of use down to the finest detail!

The S-7200A is easy to understand and operate, and has an ergonomic design that eliminates operator fatigue. It has been designed from the point of view of the operator to emphasize ease of use.

Easy for operators to use

- Unobstructed view of needle area
  The height of the arm jaw is raised to 71mm. Plenty of space is provided around the needle so that the sewing area can be easily checked visually.
- Extra space makes working more comfortable
  Adoption of the direct-drive system means that there is no motor underneath the table. The extra space thus provided underneath the table can be effectively utilized to make working more comfortable.
- Quickback device
  This is located in a place where it can be pressed easily in order to increase working efficiency.

Easy to access and easy-to-understand operation panel

- Easy access to the required functions
  The most commonly-used functions are located at the front of the L-shaped panel. A symmetrical layout has been adopted so that the user interface to make the function locations easy to remember. Plus, they are grouped and color-coded by type of function so that you can easily find what you are looking for.
- Easy-to-understand two-color graphic display
  A two-color LCD panel has been adopted. The display details can be identified by color, and easy-to-understand icons are also used.
- Digital setting of maximum sewing speed
  The maximum sewing speed can be easily set using the digital operation panel.
- Sewing speeds are displayed in a sewing speed control display
  The sewing speed can be changed easily at the control display, which allows the operator to check the sewing speed visually.
- The number of stitches is counted
  The number of stitches you have sewn is counted and a graphic display lights and buzzer sounds when a certain number is reached. The stitch counter lets you know how many lower thread you have used and gives you an indication of sewing length. It can be used as a production counter as well.
- Easy to view with no eye fatigue
  Because the panel uses a backlit LCD, the displays are easy to see. The glare from the operation panel surface has been eliminated, so that it is much less reflective and does not cause eye fatigue.
- Examples of sewing using operation panel

Excellent material compatibility

- Attractive sewing finishes for a wide range of materials
  The S-7200A has an optimized needle bar, thread take-up loci and feed loci. In addition, the adjustment range for the feed dog has been increased, allowing a greater range of different types of material to be sewn. Attractive finishes can be obtained with no puckering or slippage, even with materials that slip easily and stretch materials.
- A penetration force boosting function lets you sew even heavy materials.
  If the needle penetration resistance increases, such as when sewing heavy materials and joint materials, vibration control automatically increases the penetration force. (Patent pending)

Higher sewing quality

- Optimized floating presser foot for long pile materials
  A micro-adjustable floating presser foot is equipped as standard. This device is ideal for controlling presser foot floating in materials that stretch easily or materials with long pile. It prevents seam slippage and also prevents damage to the material. In addition, these three-dimensional arcs with regular curves can be handled with ease.
- Adjustable tension release operation
  You can set whether or not the tension release operates when the presser foot is raised. Uniform thread tension can be obtained even while the presser foot is raised when sewing around corners, thus maintaining attractive finishes.
- Condemned stitching is possible
  It is useful to sew with thin materials that can easily pull when reverse stitches are sewn. Condensed stitches have a smaller sewing pitch and they help prevent pulling.
- Because no 1/4" is used built shankings will not stain the material

Easy for operators to use

- Smooth sewing with no hings in the way
  The position of the machine head hinge has been shifted from the center to the right, on the other side of the needle bar from the operator. This makes it much easier to insert and remove heavy materials without getting caught on the needle.
- Easy-to-operate bobbin winder
  The bobbin winder is located at the top of the sewing machine arm. This makes it easier to load the bobbin winding amount and to replace the bobbin.
- Various commercially available attachments can be installed quickly and easily
  A variety of attachment toppers are provided on the top of the bed.

Options

Material edge sensor
When this sensor detects the edge of the material, the cloth is automatically adjusted so that sewing is accomplished in the specified position. This feature contributes to more even finishes and increases working efficiency.

Solenoid type presser foot lifter (Built-in head)

Option switch
This can be set for use such as a bobbin thread counter reset or as a specified position. It can be set in a location in a position where it can be easily pressed.

Premier energy saving design in the industry*: Zero consumption of sewing machine oil and 35% or more reduction in vibration.
Low noise and low vibration for stress-free operation

The sewing machine frame is highly rigid, and computer analysis has been used for designing everything down to the smallest detail, to create a shape which produces less noise and vibration. This reduces operator fatigue and greatly eliminates stress.

Easy to maintain

• Machine head can be tilted back easily
  Maintenance tasks that require the machine head to be tilted back have also been made safer. A safety sensor is provided to stop the motor from operating while the head is tilted, even if the treadle is depressed.
• No lubrication required (1.44)
  The complete dry-type head uses a lubrication-free rotary hook, and no oil is used around the needle bar, thread take-up or rotary hook mechanism. As a result, no lubrication is required at all.

• Automatic greasing notification
  The running time for the sewing machine is recorded, and when it is time for the greasing maintenance that is indispensable for dry head sewing machines to be carried out, a notification appears automatically on the panel. (Use only special Brother grease to ensure excellent operation)

• Gearbox oil level can be checked at a glance
  The oil level inside the gearbox can be checked visually. In addition, the gearbox has a heat-discharging construction with fin.

Premier energy-saving design in the industry

The brand new built-in direct-drive motor has an optimized design that utilizes magnetic field analysis, and is the most compact motor of its type in the industry. And instead of using a V-belt, the drive power is transmitted directly to the mechanisms with no losses, so that any losses in energy are reduced to an absolute minimum. This new motor has an energy-saving performance that is a further improvement on previous direct-drive motors. Compared to V-belt driven systems (AC servo motors), losses in efficiency are reduced by approximately 40% (compared to the previous Brother model), meaning that this model tops the industry in energy saving.

Specifications

Brother was the first in the industry to release direct-drive plain lockstitches. The S-7200A is our leading DD lockstitcher which has been developed from many years of research and success in the market.

Smooth sewing with direct drive system

The direct-drive system optimizes the plain lockstitching processes that require operator control. The direct-drive mechanism provides superb levels of reliability through the use of a unique built-in direct-drive motor developed by Brother. The S-7200A provides greater responsiveness to the operator’s intentions. Minute speed adjustments can be made as required when sewing curves to make sewing even smoother.

Single needle direct drive straight lock stitcher with thread trimmer
Clean sewing with no staining

This model utilizes Brother’s advanced lubrication-free technology. Sewing operations are freed from the problem of staining associated with the sewing workplace. The following three sub-classes are available.

- **Complete dry type** (−DC) Max. sewing speed 6,000rpm
  A lubrication-free rotary hook is used, and no oil is used around the needle bar, thread take-up or rotary hook mechanism.

- **Semi dry type** (−DS) Max. sewing speed 6,000rpm
  A sealed oil tank is used. The oil is kept clean at all times, and only the rotary hook is lubricated. A lubrication-free system is optimally fitted to the use of the 3,000 rpm machine.

- **Minimum lubrication type** (−MC) Max. sewing speed 5,000rpm
  A sealed oil tank is used. The oil is kept clean at all times, and it is supplied at the minimum quantity required to enable high-speed sewing to be carried out.

**Easy-to-access two-color graphic display**

The S-7200A has an optimized needle bar, thread take-up loci and material edge sensor. The S-7200A has an arm pocket width of 300 mm and an arm height of 136 mm. These wide arm pocket dimensions make it much easier to move and position the sewing article.

**High sewing quality**

The most commonly-used functions are located at the front of the L-shaped panel. A symmetrical layout has been adopted so that the user interface to make the functions easy to remember. Plus, they are grouped and color-coded by the type of function so that you can easily find what you are looking for. The S-7200A features a needle bar, thread take-up, and materials with long pile. It prevents seam slippage and also prevents damage to the material. In addition, three-dimensional articles with irregular curves can also be handled with ease.

- **Continuous Stitch counter**
  The S-7200A has an optimized needle bar, thread take-up loci and material edge sensor. The S-7200A has an arm pocket width of 300 mm and an arm height of 136 mm. These wide arm pocket dimensions make it much easier to move and position the sewing article.

**Easy for operators to use**

- **Semi dry type presser foot lifter** (Built-in head)
  The knee lifter and the needle up stop (reverse rotation) depression amount. You can set in accordance with the treadle preferences of the operator.

- **Easy-to-operate bobbin winder**
  The bobbin winder is located at the top of the sewing machine arm. This makes it easy to adjust the bobbin winding amount and to replace the bobbin.

**Excellent material compatibility**

- **Attractive sewing finishes for a wide range of materials**
  The S-7200A has an optimized needle bar, thread take-up loci and material edge sensor. The S-7200A has an arm pocket width of 300 mm and an arm height of 136 mm. These wide arm pocket dimensions make it much easier to move and position the sewing article.

- **Higher sewing quality**
  The bobbin winder is located at the top of the sewing machine arm. This makes it easy to adjust the bobbin winding amount and to replace the bobbin.

**Easy for operators to use**

- **Unobstructed view of needle area**
  The height of the arm jaw is raised to 71mm. Plenty of space is provided around the needle so that the sewing area can be easily checked visually.

- **Extra space makes working more comfortable**
  The extra space has provided under the control panel to be effectively utilized to make sewing more comfortable.

- **Quick backlash**
  This is located in a place where it can be pressed easily in order to increase working efficiency.

**Friendly to the environment**

Brother has created its own “Brother Green Label” classification for products that conform to the ISO 14021 international industrial standard and the JIS Q14021 Japanese industrial standard. The S-7200A complete dry-type head conforms to this classification. The premier energy-saving design in the industry*, zero consumption of sewing machine oil and a 35% or more reduction in vibration makes this a very environmentally friendly sewing machine.

- **Max. sewing speed 5,000rpm**
  The S-7200A complete dry-type head conforms to this classification. The premier energy-saving design in the industry*, zero consumption of sewing machine oil and a 35% or more reduction in vibration makes this a very environmentally friendly sewing machine.

**Select a starting anger**

The sewing speed at the start will be selected in accordance with the treadle depression amount. You can select the speed according to the preferences of the operator.

**Wide arm pocket makes handling sewing articles easy**

The S-7200A has an arm pocket width of 300 mm and an arm height of 136 mm. These wide arm pocket dimensions make it much easier to move and position the sewing article.

**Easy to set up**

The S-7200A is easy to set up and operate and has an ergonomically designed operator fatigue. It has been designed from the point of view of the operator to emphasize ease of use.

**Select a starting anger**

This is located in a place where it can be pressed easily in order to increase working efficiency.

**Options**

Material edge sensor

- **Material edge sensor**
  When this sensor detects the edge of the material, the cloth is automatically stopped in the specified position. This feature contributes to more even sewing finishes and increases working efficiency.

- **Solenoid type presser foot lifter** (Built-in head)
  This can be set for use such as a bobbin thread counter reset or as a specified position. It is located in a position where it can be easily pressed.

**Sewing provides ease of use down to the finest detail!**

The S-7200A is easy to set up and operate and has an ergonomic design that eliminates operator fatigue. It has been designed from the point of view of the operator to emphasize ease of use.

**Select a starting anger**

This is located in a place where it can be pressed easily in order to increase working efficiency.
Easy for operators to use

- Smoothening with no hinging in the way
- Easy-to-operate bobbin winder
- Various commercially available attachments can be installed quickly and easily

Easy for operators to use

- Unobstructed view of needle area
- Complete dry type
- Easy-to-understand graphic display
- Digital setting of maximum sewing speed
- Material edge sensor

Easy-to-understand and easy-to-use operation panel

- Easy access to the required functions
- Stable thread trimming
- Easy to view with no eye fatigue
- Easy to set using function key
- Smooth sewing with no hinging in the way
- Simple operation

Excellent material compatibility

- Attractive sewing finishes for a wide range of materials
- Sewing speeds are displayed in a digital setting of maximum sewing speed
- Adjustable tension release operation
- Condomed stitching is possible
- Because no 4-belt is used belt alloctions will not stain the material

Sewing needs are easily met

- Presser foot pressure can be adjusted
- Needle bar from the operator
- Quickback device
- Options
- Fixing provides ease of use down to the finest detail

High-speed sewing

- The maximum sewing speed can be easily set
- Full range of sewing speeds can be displayed
- Digital setting of maximum sewing speed
- Sewing speed control display

For enjoyable sewing

- Adjustable tension release
- Smooth sewing with no hinging
- Various commercially available attachments can be installed quickly and easily

For practicality

- Feed dog height adjustment
- No heavy burden during sewing
- No need for replacement
- Screened oil tank

For high-quality sewing

- Optimum floating presser foot
- Zero consumption of sewing machine oil
- 35% or more reduction in vibration*
Easy to maintain

- Machine head can be tilted back easily
  Maintenance tasks that require the machine head to be tilted back have also been made safer. A safety sensor is provided to stop the motor from operating while the head is tilted, even if the treadle is depressed.
- No lubrication required (1) •
  The complete dry-type head uses a lubrication-free rotary hook, and no oil is used around the needle bar, thread take-up or rotary hook mechanism. As a result, no lubrication is required at all.
- Automatic greasing notification
  The running time for the sewing machine is recorded, and when it is time for the greasing maintenance that is indispensable for dry head sewing machines to be carried out, a notification appears automatically on the panel. (Use only special Brother grease to ensure excellent durability.)
- Gearbox oil level can be checked at a glance
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Premier energy-saving design in the industry

The brand new built-in direct-drive motor has an optimized design that utilizes magnetic field analysis, and is the most compact motor of its type in the industry. And instead of using a V-belt, the drive power is transmitted directly to the needle bar, thread take-up or rotary hook mechanism by a direct-drive system. Compared to V-belt driven systems (AC servo motors), losses in efficiency are reduced by approximately 40% (compared to the previous Brother model), meaning that this model tops the industry in energy saving.

Low noise and low vibration for stress-free operation

The sewing machine frame is highly rigid, and computer analysis has been used for designing everything down to the smallest detail, to create a shape which produces less noise and vibration. This reduces operator fatigue and greatly eliminates stress.

Specifications

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