

# S-7200C

Single needle direct drive straight lock stitcher  
with thread trimmer

**The best energy-saving machine in the industry has been realized with a new original motor developed in-house.**

**The cutting-edge dry head technology significantly increases the grease duration.**

- Excellent responsiveness for comfortable sewing
- Clean sewing without oil staining
- User-friendly operation panel
- Comfortable operation with low noise and vibration
- Easy maintenance
- Economical sewing machine with low power consumption
- Large arm pocket enabling easy material handling

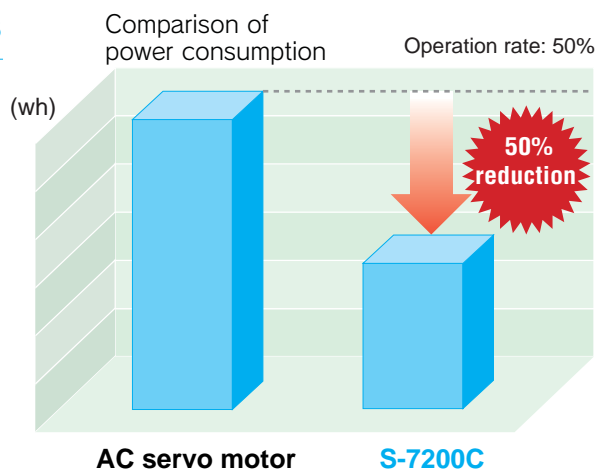


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Single needle direct drive straight lock stitcher with thread trimmer

## The industry's most efficient energy savings

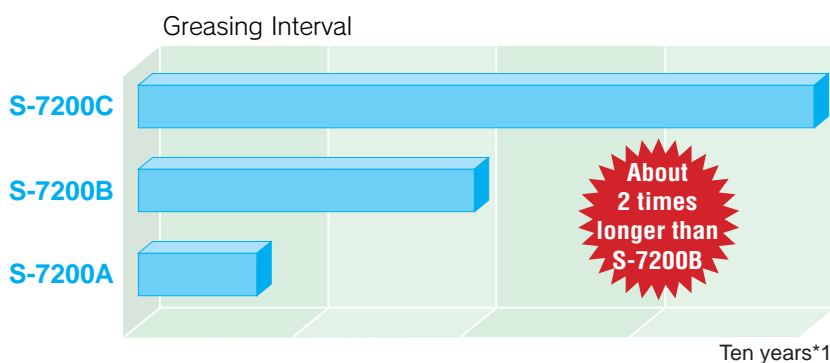
A new motor has been developed specifically for the S-7200C. The power consumption of the machine is approximately 50% less than that with the V-belt driven system (with an AC servo motor) and approximately 12% less than that of the S-7200B. This direct drive sewing machine offers the best energy saving in the industry.



## Further increased duration of the grease

The duration of the grease that is necessary for the dry head has been extended to about double that of the S-7200B and about six times that of the S-7200A. The integrated cutting-edge dry head technology significantly increases the grease duration.

\*1. Greasing maintenance will only be required once in about ten years under the following condition: operating days per year: 300 days, operating time per day: 10 hours, operation rate: 16%, sewing speed: 4,000 rpm.

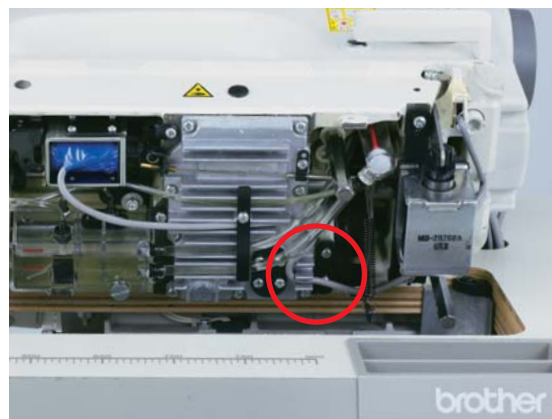


## Considerate of safe maintenance

With the safety sensor detecting, the motor does not start while the machine head is tilted back, even when the treadle is depressed.

## The gearbox oil amount can be checked at one view

The amount of oil in the gearbox can be checked visually. The gearbox has a heat-discharging structure with a fin.



## Environment-conscious

Brother has established its original "Brother Green Label" for the products, in conformity with ISO 14021 and JIS Q14021. The S-7200C is certified as an environment-conscious sewing machine according to the "Brother Green Label" standard. The machine is compliant with the RoHS Directive \*2 and the WEEE Directive \*3. The use of the restricted substances such as lead, cadmium, hexavalent chromium is absolutely within the regulation values. Brother has been providing all its products in accordance with the RoHS Directive for all market areas (excluding machine tools).

\*2. The RoHS Directive (the restriction of the use of certain hazardous substances in electrical and electronic equipment) came into effect in the EU in July 2006.

\*3. The WEEE Directive (imposing the responsibility to collect and recycle waste electrical and electronic equipment on the manufacturers) came into effect in the EU in August 2005.



**The industry's most efficient energy savings**  
**A significant reduction of lubrication oil consumption**

## Further improved ease of operation

### A new off-white color for the machine body

The new, whiter body color gives an impression of cleanliness. It is comfortable to the eyes of operators and fits clean factories.

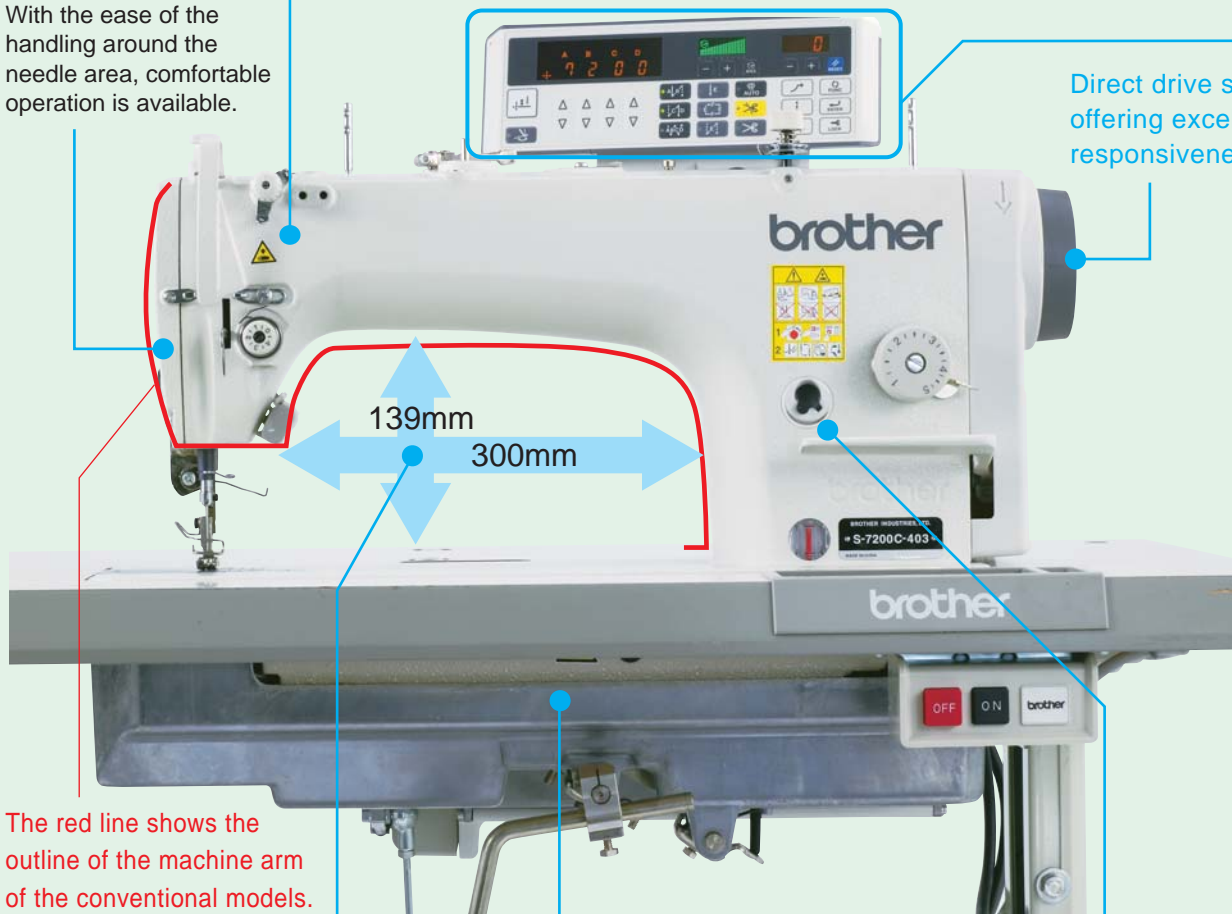
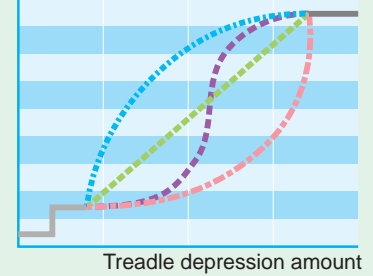
### Good view with a slim arm jaw

With the ease of the handling around the needle area, comfortable operation is available.

### According to the operator's preference

The curve of the acceleration at sewing start can be selected on the operation panel. The machine provides more options for customizing operations by the operator's preference than the S-7200B.

Sewing speed



Direct drive system offering excellent responsiveness

The red line shows the outline of the machine arm of the conventional models.

A large arm pocket enabling easy material handling

A downsized, flat control box providing a far larger leg space to be utilized

Reducing trouble of maintenance work  
Oil can be supplied at the front of the machine, without tilting back the machine head. The trouble of the maintenance work is reduced.

### Low noise and vibration allow stress-free operation

The operation noise of the solenoids of reverse feed changeover, thread trimming and thread wiping has been reduced. The sound during sewing has been improved in sound pressure and sound quality. Offensive sound and vibration are reduced to a minimum, helping reduce stress and fatigue of operators.



### Easy-to-see antireflective display

The operation panel is easy to see and use. The sizes of the panel keys and pictograms are double those of the conventional models.



G10panel



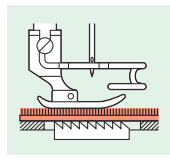
G50panel

	Start backtack	End backtack	Continuous backtack	Fixed stitch	Name label	Pleat presser sewing	Lower thread counter
G10	○	○	○	-	-	-	-
G50	○	○	○	○	○	○	○

### Enhanced sewing quality

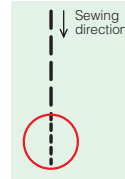
#### Presser foot with minute-adjustable pressing level

Material slippage with stretch materials and raised fabrics can be prevented, and damage to the fabrics can be reduced. Handling in sewing three-dimensional articles with different curves can be made easier.



#### Condensed stitching

It is suitable for light materials which tend to have puckering at reverse stitching.



### Options

- Solenoid-type presser foot lifter set (SA9664-001) (SA9664-0E1)\*  
\*for Europe only



- Thread wiper set (SA9777-001)



- Triple pedal for standing operation (J80380040)(J80380-0E0)\*  
\*for Europe only



- Foot plug assy (J04099-101)





Regular stroke

Longer stroke

## Excellent sewing capability for a wide range of materials

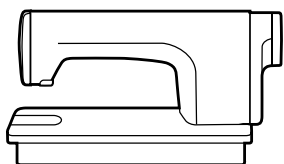
Medium materials spec.  
(S-7200C-□□3)

By changing the thread take-up stroke to the longer one, the range of sewing capability can be expanded for heavy materials.

## Preventing needle breakage at reverse stitching (with G50 operation panel)

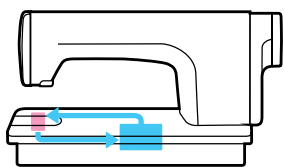
When reverse stitching is performed with thick materials (with the quick back switch), needle breakage tends to occur. With the thorough analysis of its cause, the function preventing the needle breakage has been introduced. (Patent applied for)

## Clean sewing without oil staining



Complete dry type (S-7200C-□5□)  
Max. sewing speed 4,000rpm

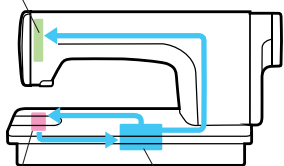
A lubrication-free rotary hook is used and no oil is supplied to the areas of the needle bar, thread take-up or hook.



Semi-dry type (S-7200C-□3□)  
Max. sewing speed 5,000rpm

This type is equipped with a sealed oil tank, supplying constant clean oil only to the rotary hook. It is also possible to stop the lubrication to the rotary hook and use a lubrication-free rotary hook.

needle bar, thread take-up



rotary hook oil tank

Minimum lubrication type (S-7200C-□0□)  
Max. sewing speed 5,000rpm

This type is equipped with a sealed oil tank, supplying constant clean oil only to the minimum parts requiring lubrication.

# Specifications

**S-7200C-**    Single needle direct drive straight lock stitcher with thread trimmer

Control box  
**X-7200C**

	Quick back	Thread wiper
3	<input type="radio"/>	—
4	<input type="radio"/>	<input type="radio"/>

	Lubrication type
0	Minimum lubrication
3	Semi dry
5	Complete dry

	Use
S	Light-weight and difficult-to sew materials
3	Medium materials
5	Heavy materials



	S-7200C						
	-303, -403	-305, -405	-33S, -43S	-333, -433	-45S	-453	
Lubrication type	Minimum lubrication		Semi dry		Complete dry		
Application	Medium materials	Heavy materials	Light materials and difficult-to sew materials	Medium materials	Light materials and difficult-to sew materials	Medium materials	
Max. sewing speed	5,000 rpm*1	4,500 rpm*1	4,000 rpm	5,000 rpm*1	4,000 rpm		
Max. stitch length	5mm		4.2mm	5mm	4.2mm	5mm	
Presser foot height	Presser bar lifter: 6mm, knee lifter: 16mm(Solenoid-type presser foot lifter: 10 mm)						
Needle bar stroke	31mm	35mm	29mm	31mm	29mm	31mm	
Needle (DBx1·DPx5)	#11~#18 (Nm75~110)	#19~#22 (Nm120~140)	NS#9~#11 (Nm65~75)	#11~#18	NS#9~#11	#11~#18	
Rotary hook*2	Lubricated/ For medium materials	Lubricated/ For Heavy materials	Lubricated/ For light materials	Lubricated/ For medium materials	Lubrication-free RP hook		
Feed dog	4 rows						
Height of feed dog	0.8mm	1.2mm	0.8mm				
Weight	Machine head 45 kg, Control box 3.1 kg, Operation panel 0.4 kg (G10), 0.6kg (G50)						
Arm pocket size	Width: 300mm, Height: 139mm						
Bed size	517.5mm x 178mm						
Bobbin winder	Built-in on the machine arm						
Machine head driving system	Direct drive						
Motor	AC servo motor (4-pole, 450W)						
Power supply	Single phase 100-120V,200-240V,3-phase 200-240V,380-415V,350VA						
Lubrication oil	Rotary hook	High-speed spindle oil				—	
	Needle bar	High-speed spindle oil		Brother's special grease			

\*1 When sewing at a sewing speed of 4,000rpm and above, set the stitch length to 4.2mm and under.

\*2 When using a lubrication-free rotary hook, operate the machine at a sewing speed of 4,000rpm and under.

Product specifications are subject to change for improvement without notice. Photographs are for illustration purposes. They may not represent actual operating conditions and may display optional parts.

Please read instruction manual before using the machine for safety operation.

**brother**®

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Brother Industries, Ltd. Machinery & Solution Company  
Mizuho, Minato and Kariya plants acquired ISO 9001 and 14001 certifications.

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