

After Service Instruction

Model Name

Common

Task Name

Manual Greasing Method

Management No. ASI-050

This task should be carried out only by those who meet the following requirements.

Also, please understand the contents of "Precautions for Use" in advance before performing the work.

"Trained maintenance personnel"

- Persons who have knowledge of the electrical circuits of this machine and have received electrical safety education
- Persons who have received maintenance work education
- Persons who have been trained in the handling of high-pressure air and understand the piping of this machine

Precautions for Use

- Use of information, etc.

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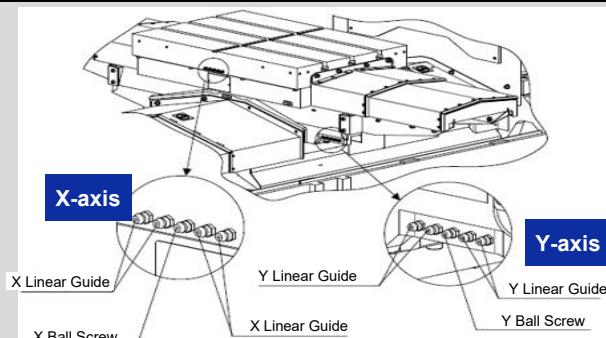
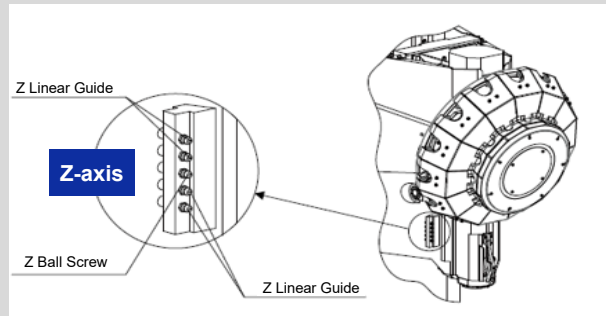
Public Document

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Work Procedure (Key Points of Work, Reasons for Key Points, Safety, Tips)		Detailed Diagram (Photos, Illustrations, Balloon Diagrams, etc.)											
1	Purpose of Machine Lubricant Inspection and Greasing By properly supplying lubricant/grease, machine wear caused by friction is reduced, and machining accuracy and machine life are maintained. *This procedure explains manual greasing. For more details, please also refer to Chapter 9, Inspection, in the Installation Manual.	9.2.3 Compatible Grease 1. Use one of the following 4 greases designated by Brother on the linear guide and ball screw. <table><tr><th>Product name</th><th>Manufacturer</th></tr><tr><td>Multemp LRL3</td><td>Kyodo Yushi</td></tr><tr><td>Unirex N2</td><td>Exxon Mobil</td></tr><tr><td>Alvania grease S No.2</td><td>Showa Shell Sekiyu</td></tr><tr><td>Multinoc grease</td><td>JX Nippon Oil & Energy</td></tr></table> Do not use other greases not designated here, otherwise it can cause failure or malfunction. We recommend using Kyodo Yushi Multitemp LRL3 grease for the ball screw when machining accuracy is a specific requirement. The machine is lubricated with the same grease at the factory before shipment. Refer to Installation Manual, Chapter 9		Product name	Manufacturer	Multemp LRL3	Kyodo Yushi	Unirex N2	Exxon Mobil	Alvania grease S No.2	Showa Shell Sekiyu	Multinoc grease	JX Nippon Oil & Energy
	Product name	Manufacturer											
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2	Guideline for Manual Greasing After machine installation, replenish grease every 100 km (every 3 months or 500 operating hours, whichever comes first). After greasing, operate each axis through its full breadth to ensure the grease is well distributed. When performing greasing, always wear protective gear such as helmets and gloves to avoid injury from tools or chips inside the machine.	9.2.4 Greasing Locations 1. Replenishing grease on the X-, Y- and Z-axes Open the front door and inject grease. Replenishing amount Linear guide: 1 to 2 g Ball screw: 5 to 6 g Recommended: Wear protective gear											
	XY-axis Grease Supply Points Inject grease using a grease gun at the grease nipples on the X, Y, and Z axes. Each axis has 4 linear guide points and 1 ball screw point, for a total of 5 points. *The right figure shows the S500X2 XY-axis. For other models, refer to the Installation Manual for grease nipple locations.												
4	Z-axis Grease Supply Points *The right figure shows the S500X2 Z-axis. For other models, refer to the Installation Manual for grease nipple locations.												
	Grease Nipple Tip Shape A grease nipple is a grease injection port attached to the machine. Use a grease gun to inject grease. Our machines use type A hydraulic nipples. Please use a compatible grease gun.	Grease nipple tip shape ■ HYDRAULIC NIPPLE JIS B 1575  Type A											

Total Work Estimated
Time (minutes)

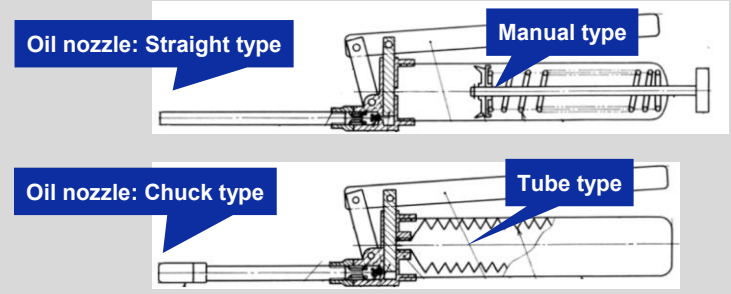
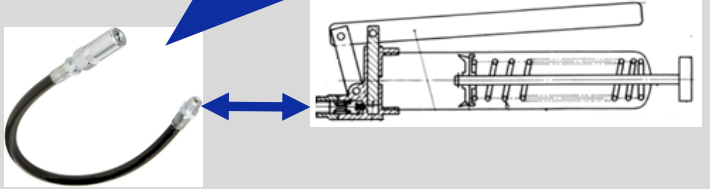
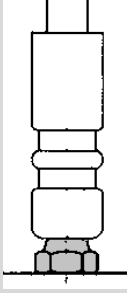
Tools and Equipment Used

1	2	3
4	5	6

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Work Procedure (Key Points of Work, Reasons for Key Points, Safety, Tips)		Detailed Diagram (Photos, Illustrations, Balloon Diagrams, etc.)	
6	Preparing the Grease Gun There are several types of commercially available grease guns. Oil nozzle: Straight type – press against the nipple to use Chuck type – locks when inserted into the nipple Hose type – can be used in tight areas (with chuck) Grease filling: Manual type – fill grease directly Tube type – use a grease tube cartridge	Types of Grease Guns 	
	Preparing the Grease Gun Hose Type The hose type is useful for reaching tight or complex areas where the straight type cannot reach. Be careful, as you may not notice if the tip chuck comes off in places you cannot see.	Oil nozzle: Hose type (with chuck) 	
8	Injecting Grease Using a Grease Gun Press the grease gun's oil nozzle against the grease nipple and inject grease. As shown in the right figure, insert the tip of the grease gun straight into the nipple. If it is not straight, grease may not be injected properly. The task is complete once the proper amount of grease has been supplied.	 9.2.4 Greasing Locations 1. Replenishing grease on the X-, Y- and Z-axes Open the front door and inject grease. Replenishing amount Linear guide: 1 to 2 g Ball screw: 5 to 6 g	
	*Note Do not use air-driven or electric grease guns whenever possible. Some products may have excessive discharge pressure or supply volume, which can damage the ball screw, guide, or grease tube.		
10			

Total Work Estimated Time (minutes)

Tools and Equipment Used

1 _____ 2 _____ 3 _____
 4 _____ 5 _____ 6 _____