

8.2 Maintaining Motion System - Lubrication of the X & Y Rails

In order to keep the motion system running smoothly, the X and Y axis of the motion system will need lubrication on weekly base. Apply 0.1ml of lubrication syringe in accessory box to the X liner rail of S400 mode on bi-week base, while apply a small amount of light grade machine oil or PS2 grease to a paper or cotton towel and apply to the X rail of S400 model, and Y axis of S400. You can purchase PS2 grease from NSK dealers worldwide. Please visit <http://www.nsk.com/eng/company/network/index.html> for additional information

NOTE

- Clean and lubricate the X linear rail of S400 with 0.1ml grease from syringe every month to properly maintain the motion system.
- The lubrication oil for the X linear rail on S400 must to be ordered from GCC LaserPro and its authorized dealers. Other unknown grease may damage the rail's life time and performance.
- Always clean and lubricate the X and Y of S400, after working with material that produce lots of debris (such as wood).
- Too much oil or PS2 grease applied to the Y axis will accelerate the debris building up.

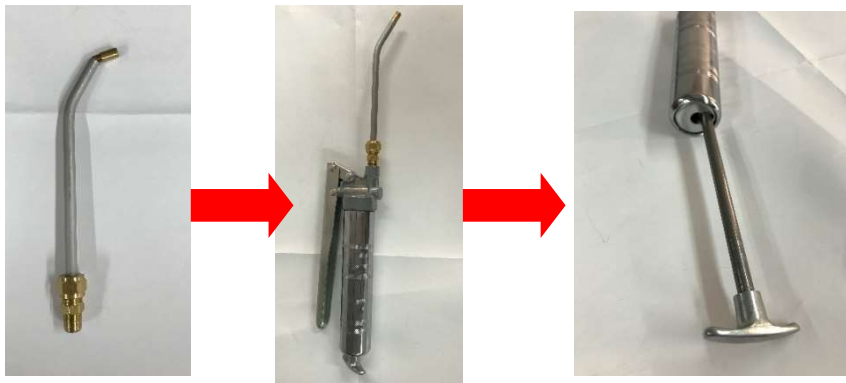
The X rail of S400 has linear bearing design which needs lubrication regularly depending on the job loading, recommend on bi-weekly base. Follow below procedures.

1. Take out the Grease Syringe from accessory box

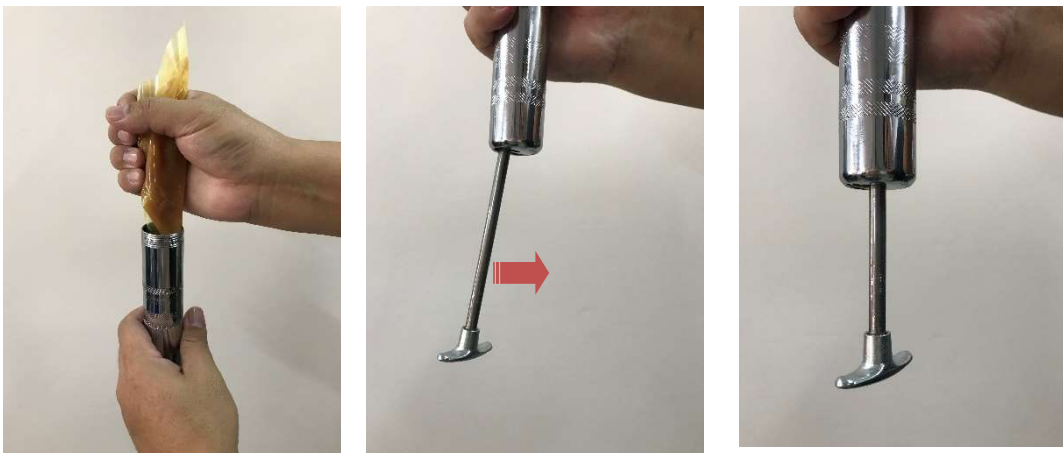


2. Select the following parts and compose the grease syringe as below pictures

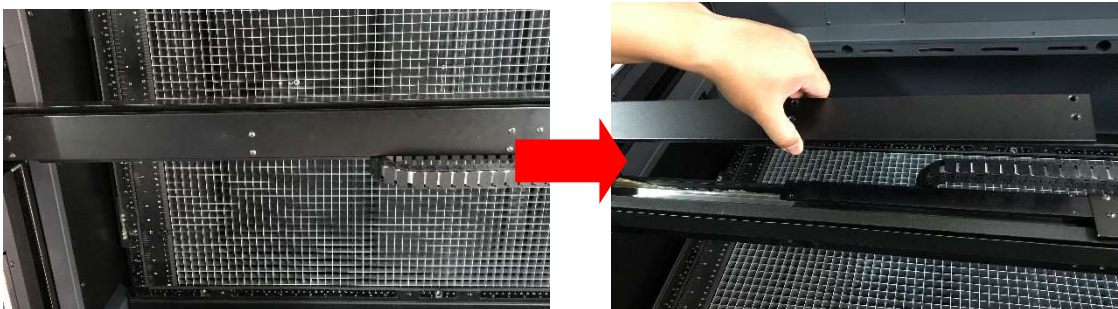




3. Inject 0.1ml of grease to the injection opening inside the linear bearing



4. Remove the protected cover from the carriage



5. Inject small amount of grease to this injection opening inside the linear bearing



6. Seal the lubrication slot plate back to the X rail