

## 8.2.2 Cleaning the Work Table and Motion System

Clean the working table and the motion system on a frequent basis through the following steps:

- 1) Turn the power off and unplug the machine before cleaning.
- 2) Use a vacuum cleaner with a flexible nozzle to remove dust and debris from the work table and motion system.
- 3) Apply small amounts of all-purpose cleaner, alcohol, or acetone to a paper or cotton towel to clean the working table.
- 4) Apply a soap solution, all-purpose cleaner, or alcohol to a paper or cotton towel to wipe down the rails of the motion system.
- 5) Wait for all cleaning residue to dry completely before plugging in and operating the Spirit PRO Series.

### CAUTION!

- Never pour or spray alcohol or acetone directly to the work table.
- Oil, alcohol and acetone can cause fires or smoke build-up if improperly used.

### Tip

Please clean the AutoFocus pin each time after completing the engraved job to make sure the AutoFocus pin is free to move.

## 8.2.3 Lubrication of the X & Y Rails

In order to keep the motion system running smoothly, the X and Y rails 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 Spirit LS PRO and Spirit GLS Hybrid PRO models 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 Spirit PRO model, and Y rails of Spirit LS PRO and Spirit GLS Hybrid PRO models weekly. You can purchase PS2 grease from NSK dealers worldwide. Please visit <http://www.nsk.com/eng/company/network/index.html> for additional information.

## NOTE

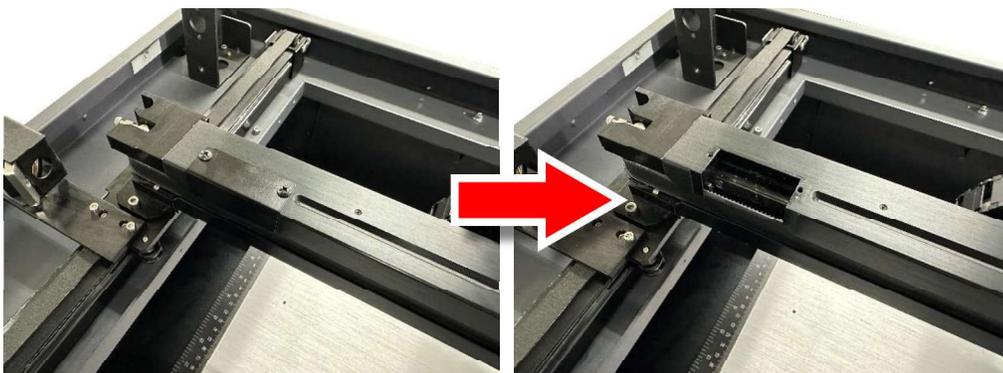
- Clean and lubricate the X linear rail of Spirit LS PRO and GLS Hybrid PRO models with 0.1ml grease from syringe every two weeks to properly maintain the motion system.
- The lubrication oil for the X linear rail on Spirit LS PRO and Spirit GLS Hybrid PRO must to be ordered from GCC LaserPro and its authorized dealers. Other unknown grease may damage the rail's life time and performance.
- Always clean and lubricate the X and Y rails of Spirit, and Y rails of Spirit LS PRO & GLS Hybrid PRO models after working with materials that produce lots of debris (such as wood).

The X rail of Spirit LS PRO and Spirit GLS PRO models has linear bearing design which needs lubrication regularly depending on the job loading, recommend on bi-weekly base. Follow below procedures.

1. Open the SmartLID
2. Take out the Grease Syringe from accessory box.



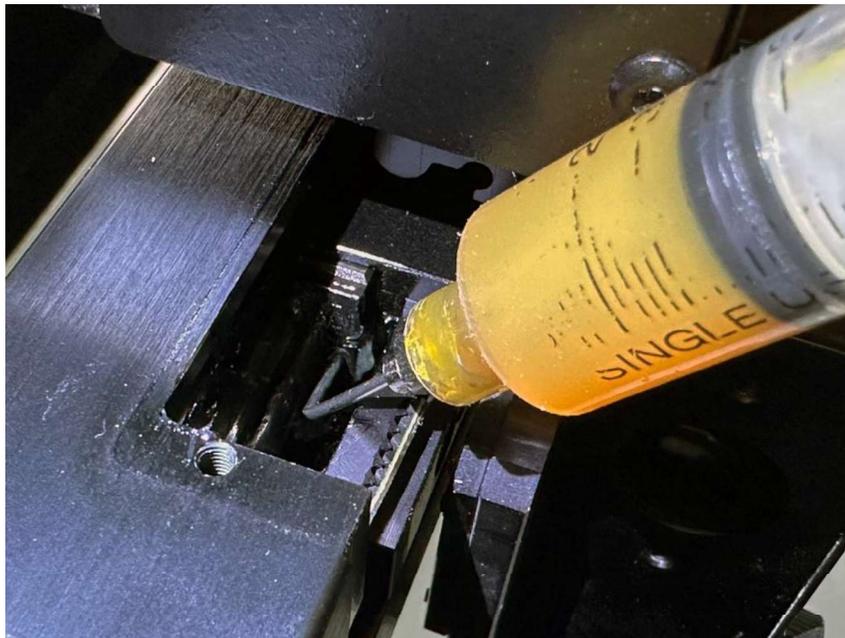
3. Remove the lubrication slot plate on the X rails.



4. Move the lens carriage to the left side and make the injection opening can be shown from the lubrication slot



5. Insert the Grease Syringe into the injection opening, then Inject 0.1ml of grease to the injection opening inside the linear bearing, and move the lens carriage to smooth the grease and movement



6. Repeat the step 5 till the grease is full out of the linear bearing
7. Repeat the step 5 and 6 to the injection opening in opposite side of the linear bearing
8. Seal the lubrication slot plate back to the X rail.

9. Open the belt by hand and use cotton swab to clean the linear guide (make sure to clean top, bottom and surface of linear guide).



10. Use clean oil on cotton swab and then grease on linear guide (including top, bottom and surface of linear guide).

