

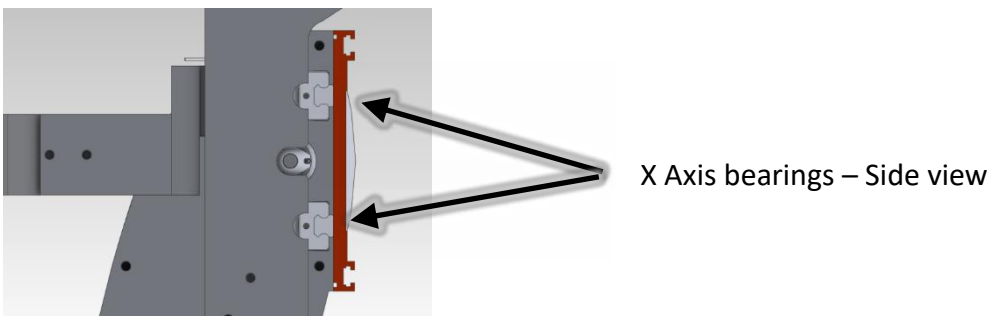
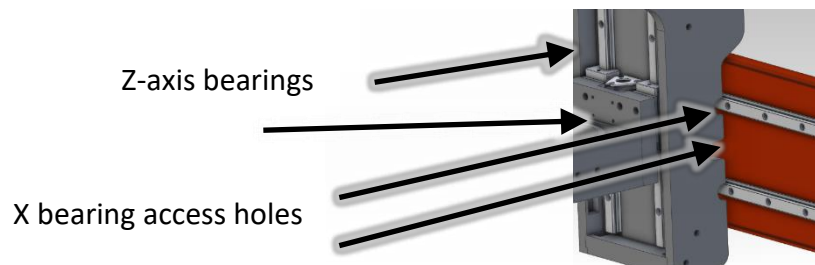
SHARK CNC HD500 SERIES GUIDE RAIL AND BEARING MAINTENANCE KIT

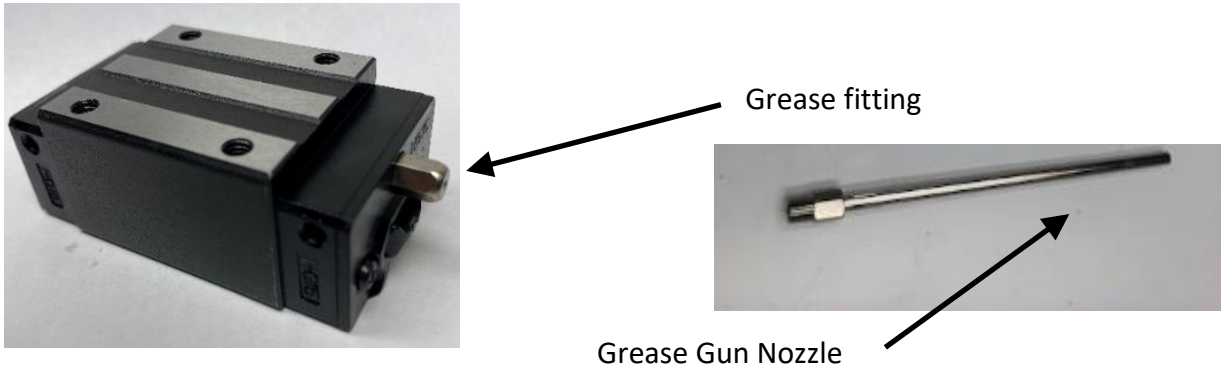
X and Z Rails – Dust and debris build-up on the guide rails can have a negative impact on the performance of your machine, so it is important to keep them clean and lubricated. To maintain optimum performance, clean and lube the X and Z rails at least once every 8 hours of operation. While the machine is stopped, wipe off the rails with a clean cloth or soft brush. After cleaning the rails, lube the bearings per the instructions below and on the next page.

Y Rails (under the machine) – Clean the round Y rails under the machine in the same manner as the X and Z rails. After cleaning the Y rails, spray-on a "DRY" lube such as **DuPont Non-Stick Dry Film Lubricant**. After applying the dry lube, run the machine Y axis back and forth a few times to distribute the lubricant evenly along the rails. You can find similar products at hardware stores and home centers. Make sure it is the dry type, so it does not attract dust and buildup.

Y Bearings (under the machine)– The round linear Y bearings under the machine do not require greasing. Applying the dry lubricant to the round rails is sufficient.

Z and X Bearings – The two Z axis bearings are located behind the router/spindle mount. The two X axis bearings are located behind the Z carriage. (see pictures below). These four bearings require periodic greasing (see next page for details).





Applying lithium grease to linear ball-bearing carriages

1. Attach the 6mm nozzle to any standard grease gun.
2. Place the grease gun's nozzle over the grease fitting located on the bearings. Slightly push the nozzle against the carriage's grease fitting and use the trigger to apply the grease. (It only takes a couple pulls for each application)
3. Move the machine to its travel limits to properly disperse lubricant