



HD5 Linear Guide Rail Maintenance

Preventative Maintenance of Guide Rails

- It is important to keep your guide rails free of debris. Fine particulate build-up over time will have a negative impact on the performance of your machine. This is most important on the X axis, since the rail is horizontal and can collect fine dust.
- If you see build-up of dust or debris on your rails, you will want to pause your machine to wipe them down. While the unit is stopped, wipe down the rails with a clean rag. This is also a good time to spray the rails with a dry silicone lube.

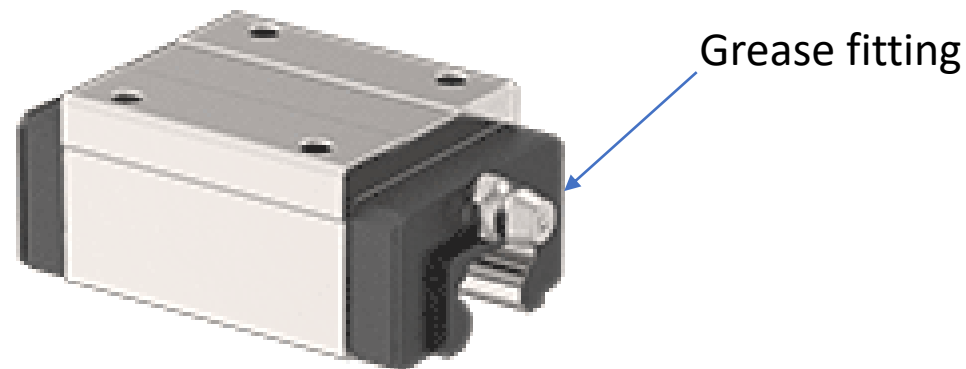
Items Required

- Mini Grease Gun
- Example
 - Pittsburgh Automotive Mini Grease Gun with Cartridge
 - <https://www.harborfreight.com/grease-gun-with-3-oz-grease-95575.html>
- 12" Flex extention - Advance Auto Parts
- Example
 - <https://shop.advanceautoparts.com/p/toughone-engine-12-grease-gun-flex-hose-w54221/7070179-P>
- Grease-Dispensing Tip - McMaster-Carr
- Example
 - <https://www.mcmaster.com/2906K92>
- Any NLGI #0 or #1 Lithium grease will work for this application
- Example
 - 13.7 oz. Extreme Pressure Grease Cartridge
 - <https://www.zoro.com/mobil-mobilux-ep-1-ep-grease-nlgi-1-137-oz-121093/i/G2182966/>



Applying lithium grease to linear ball-bearing carriages

- Bulk-load the recommended lithium grease into the tube that comes with your grease gun
- 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.
- Move the machine to it's travel limits to properly disperse lubricant



Linear Carriage Location

