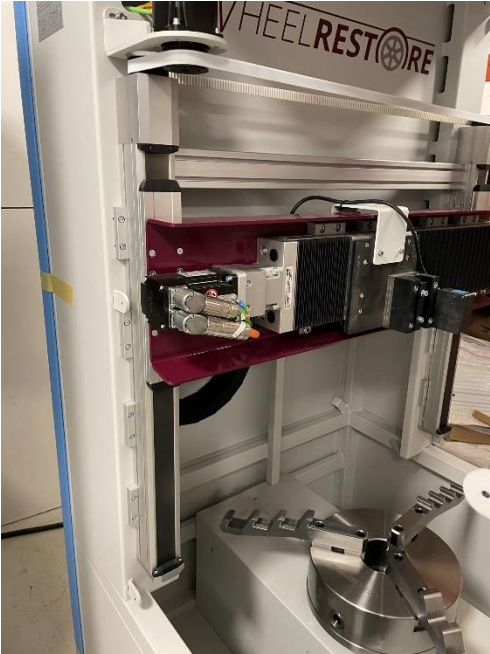


Maintenance Manual



We strongly recommend that the machine has a yearly service interval performed by a manufacturer approved service technician.

Axis



Cleaning

The product must be inspected and cleaned at regular intervals.

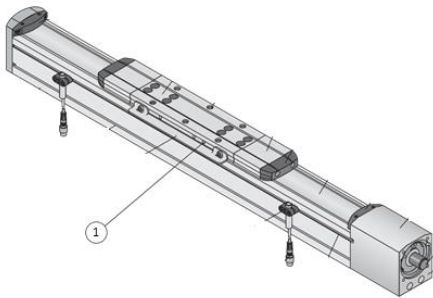
- ▶ Do not use compressed air for cleaning. But instead use a brush or vacuum cleaner.
- ▶ Remove large particles and dirt from the surface at regular intervals.
- ▶ Use only neutral cleaning agents for cleaning.
- ▶ Use only damp, soft and lint-free cleaning cloths to wipe the surface.

Cover strip

The cover strip is Teflon-coated. The friction causes abrasion on the cover strip.

- ▶ Remove abrasion products at regular intervals.

Lubricating the linear guide and the drive elements



The ball screw axis is lubricated with grease from an internal reservoir. The reservoir is factory-prefilled. The carriage features 3 grease nipples at each side for relubrication.

- The outer grease nipples are used to lubricate the linear guide.
- The inner grease nipples are used to fill the drive element (ball screw drive).

Linear guide

Size	Lubricant ¹⁾	Relubrication volume	Strokes
PAS42	Microlube GL 261	0.25 cm ³ (0.02 in ³)	1/2

1) Alternative grease K1N-30 as per DIN 51825

Ball screw drive

Size	Lubricant ¹⁾	Relubrication volume	Strokes
PAS42	Microlube GL 261	1.5 cm ³ (0.09 in ³)	3

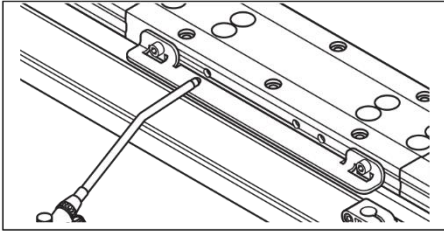
1) Alternative grease K1N-30 as per DIN 51825

Notes on greasing

When applying the lubricant, you must not exceed a maximum flow rate. Therefore, the minimum injection time of 3 seconds per grease gun stroke must be adhered to.

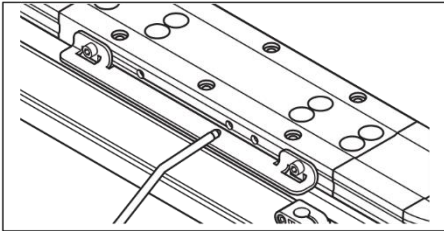
The carriage must be moved between strokes of the grease gun to allow the grease to distribute evenly in the lubricant reservoirs.

Procedure



Lubricating the linear guide

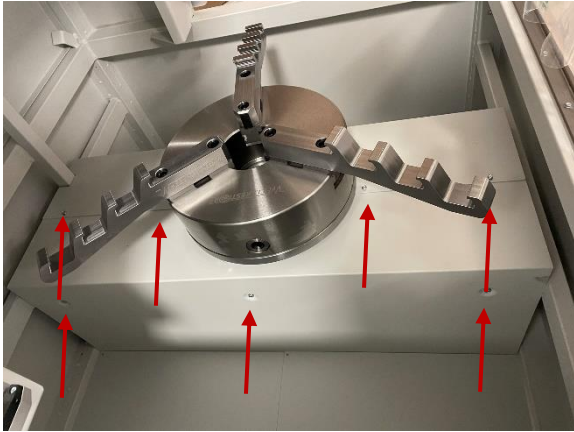
- ▶ Position the nozzle at a right angle. Press the nozzle against the grease nipple.
- ▶ Inject the correct type and volume of grease into the two outer grease nipples at one side of the carriage.



Lubricating the drive elements

- ▶ Position the nozzle at a right angle. Press the nozzle against the grease nipple.
- ▶ Inject the correct type and volume of grease into the center grease nipple at one side of the carriage.

Lubricating bearings in chuck



Remove screws and protection cover under the chuck.



Remove the red cover to inject the lubrication.

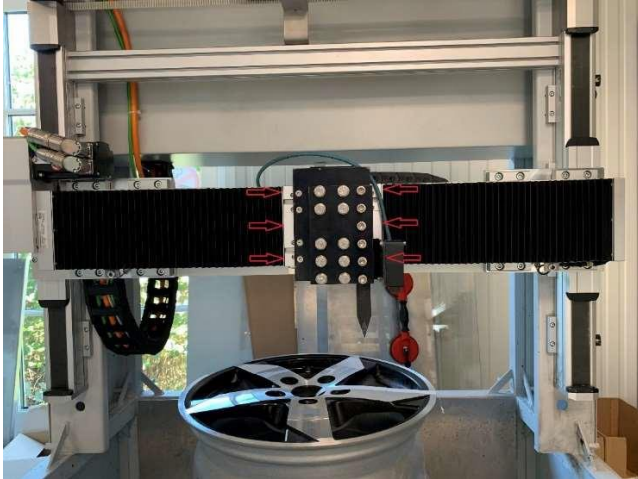
After the lubrication, reassemble the protection cover.

Axis cleaning

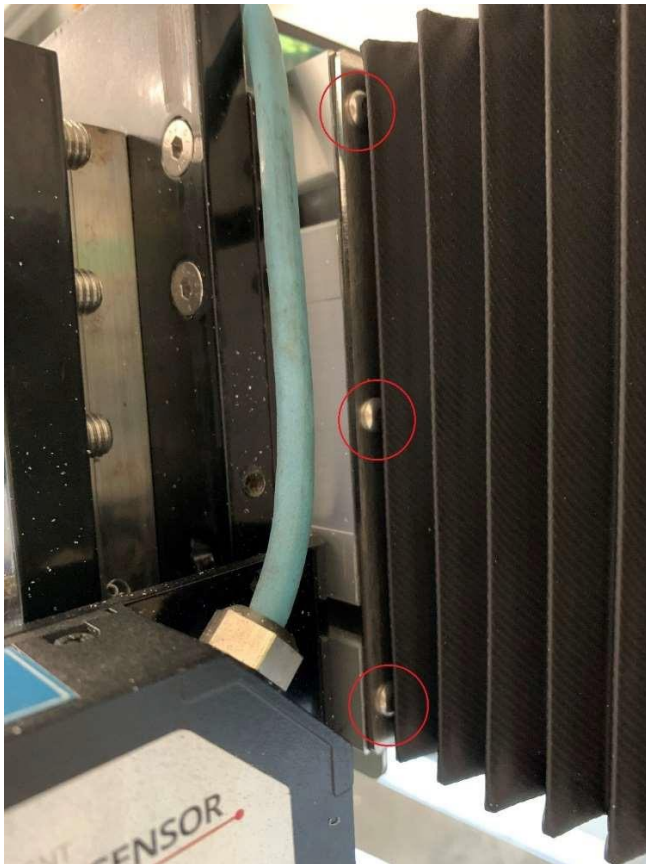
We recommend cleaning the X-Axis behind the tool holder frequently.

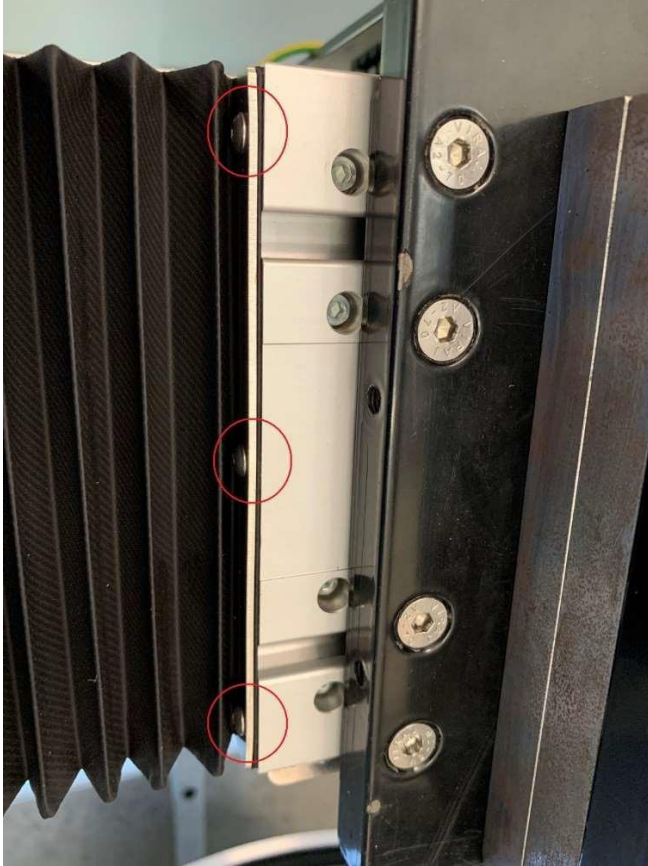
Please follow the following steps:

1. Put the axis in loading position
2. Open the door
3. Switch off the power by removing the plug from the socket
4. Wait for 5 min to be sure the power is completely down
5. Locate the screws in the middle of the axis, see picture (red arrows)



6. Use a screwdriver TX10 to remove the screws





7. Carefully remove the plastic cover from the axis



8. Use a vacuum cleaner to remove all chips from the spindle and axis
9. Put the plastic cover back on the axis
10. Mount the screws using a screwdriver TX10
11. Switch on the machine by plugging in the plug into the socket
12. Close the door
13. Follow the steps as mentioned on the screen

Axis belt inspection and adjustment

We recommend check and adjust the X-belt frequently. Please follow the following steps:

1. Put the axis in loading position
2. Open the door
3. Switch off the power by removing the plug from the socket
4. Wait for 5 min to be sure the power is completely down
5. Locate the white belt (See below RED arrow)



6. Place a cutting tip case where the WHEEL"R"ESTORE and made sure that it is thing to the touch like show below:



7. If the belt is loose, the belt can be adjusted by unscrewing the 4 bolts located on the left, where the motor is located – See below picture:



8. If the belt is still not tight enough even after the adjustments, the belt needs to be replaced. New belts can be purchased from the same place as you have purchased your machine.