



Compact-Line Maintenance Manual

Maintenance

With normal use, the portal milling machine should be lubricated every six months, but at the latest after twelve months. To do this, proceed as follows:

All greasing points

After lubricating, remove excess grease with a rag.

Note:

As a grease gun, we recommend the HIWIN grease gun set from the Sorotec online shop (item no. SM.0014).

Common multi-purpose grease is sufficient for lubricating the spindle nuts and carriages.

Guide carriages X axis

- The lubricating nipples of the guide carriages are easily accessible in every position of the portal.
- Apply the lubrication on the left and right as shown in figure 1.



Fig. 1: Lubricating guide carriage X-axis

Spindle nut X axis

Note

The lubricating nipple of the X spindle nut can only be reached from below. You can simplify the greasing process with a maintenance opening in the base of the machine.

Otherwise, the portal milling machine must be laid on its side or lifted at the rear to lubricate the X-spindle nut.

- Carry out the lubrication as shown in figure 2.



Fig. 2: Lubricating the X spindle nut

Guide carriages Y axis

- The grease nipples of the upper carriages are accessible from the side in every position of the Y axis.
- Lubricate the Y axis upper carriages as shown in figure 3.

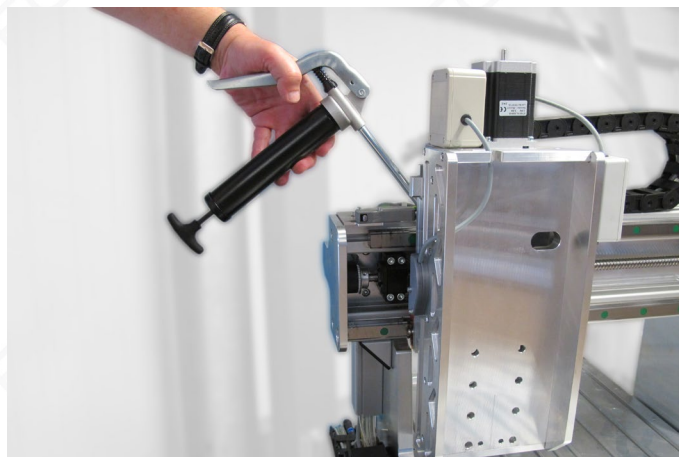


Fig. 3: Lubricating the Y guide

- Drive the Y axis all the way to the left. The grease nipple of the lower left guide carriage can now be reached through the hole in the left end plate of the portal beam.
- Lubricate the lower left carriage as shown in figure 4.



Fig. 4: Lubricating the Y guide

- Drive the Y axis all the way to the right. The grease nipple of the lower right guide carriage can now be reached through the hole in the right end plate of the portal beam.
- Lubricate the lower right guide carriage as shown in figure 5.



Fig. 5: Lubricating the Y guide

Spindle nut Y axis

- Center the Y axis. The lubricating nipple of the Y-spindle nut is now easily accessible through the opening in the middle of the portal beam.
- Lubricate the Y-spindle nut as shown in figure 8.

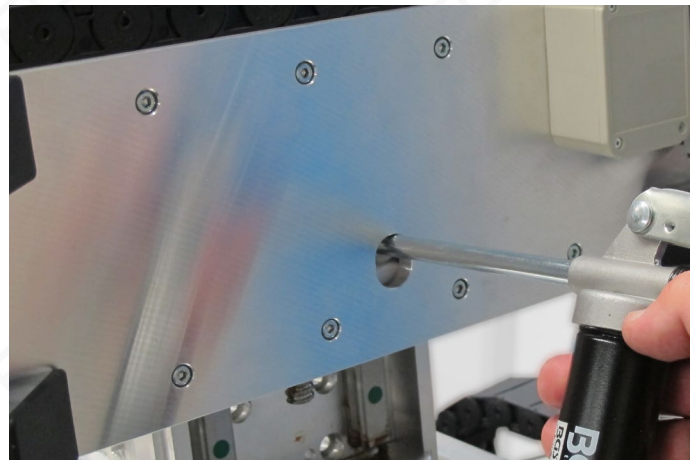


Fig. 8: Lubricating the Y spindle nut

Guide carriages Z axis

- Drive the Y-axis to the right stop.
- Remove the left Z-axis bracing plate. It is not necessary to remove the reference switch beforehand. The lubricating nipples of the guide carriage are now easily accessible from the left side.
- Carry out the lubrication of the guide carriages as shown in figure 9.



Fig. 9: Lubricating the left Z guides

Spindle nut Z axis

- A hole is provided in the rear plate to lubricate the Z spindle nut. Traverse the Z axis until the spindle nut grease fitting is visible through this opening.
- Lubricate the Z-Spindle nut as shown in figure. 10.



Fig. 10: Lubricating the Z spindle nut