SOROTEC

Basic Line Maintenance Manual

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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.

i 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

- Drive the portal to the front stop of the X-axis. The lubricating nipples of the carriages are now easily accessible from the front.
- Lubricate on the left and right as shown in Fig. 44.
- On a machine with a performance kit, repeat the process from the rear for the rear guide carriages.



Fig. 44: Lubricating front carriages X-axis

Spindle nut X axis

• Carry out the lubrication as shown in Fig. 45.

i 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.



Fig. 45: Lubricating the X-spindle nut with the machine tilted forward

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Guide carriages Y-axis

- Drive the Y-axis to the right stop. The grease nipples of the upper and lower carriage are now easily accessible from the left side.
- Lubricate the Y-axis carriages as shown in Fig. 46.



Fig. 46: Lubricating guide carriages Y-axis

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 Fig. 47.



Fig. 47: Lubricating the Y spindle nut

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Guide carriage 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 lower guide carriage as shown in Fig. 48.
- For machines with the Performance Kit, repeat the process for the upper carriage.



Fig. 48: Lubricating guide carriages Z-axis

Spindle nut Z axis

The grease nipple on the Z-axis spindle nut is easily accessible from behind and above.

• Lubricate the Z-spindle nut as shown in Fig. 49.



Fig. 49: Lubricating the Z-axis spindle nut