Bearings (Lubrication)

Lubricating the Linear Bearings

Check the quality of the lubrication on the guide rails every week to determine when more grease is needed. The frequency of greasing depends on many factors including amount of use and dust. After enough time has passed to determine a pattern, document how often the bearings should be greased, but continue to inspect the rails every week.

NOTICE

Overgreasing will cause premature failure of bearing seals and excessive saw dust and dirt to stick to the guide rails, negating the benefits of the grease. Undergreasing may cause damage to components and affect the accuracy of the saw. A thin film of grease should be visible on the guide rails at all times

Because the linear bearings require frequent lubrication and can be damaged by overgreasing, MiTek recommends the following grease and grease gun be used.

Grease Recommended

***Mobilux*™ EP 2**

This is a general purpose, lithium-based Grade 2 grease that provides excellent protection against rust and corrosion and resists water wash-out, corrosion protection, low temperature pumpability, and high temperature service life.

Grease Gun Recommended

It is recommended to use the following grease gun to ensure the proper amount of grease is applied. If you do not have this grease gun available, it is recommended that you purchase one for future use. Understanding the number of pumps to use (the output of grease) will extend the life of the bearings and the accuracy of the saw.

Hiwin GN-80M

Output: 0.5-0.6 cm^3 per stroke

If you choose to use a different grease gun, document which gun is to be used for this procedure and ensure employees know the output per stroke. The output per stroke should be equal to or less than 0.5 cm^3 per stroke.

Lubrication Amount

Use a grease gun to apply the volume of grease listed in Table 7-6 to the matching bearing size.

Manual grease gun

No.2 lithium-based grease

Table 7-6: Grease Volume Per Bearing Size

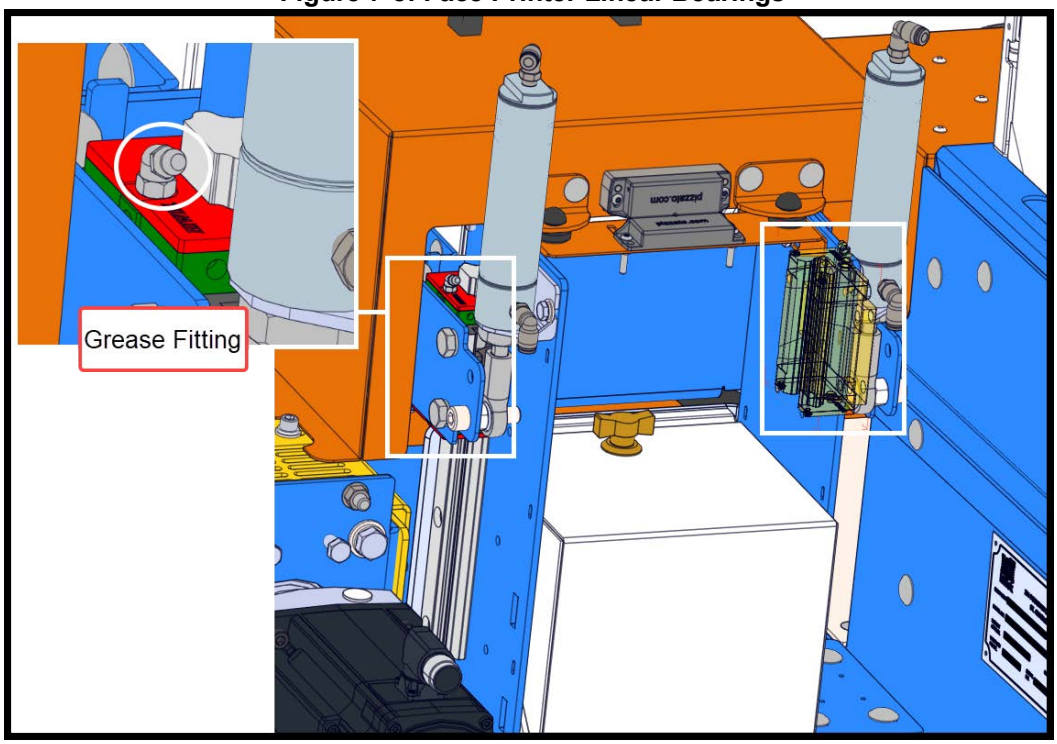
Linear Bearing Size	Amount
Face Printer (size 20)	0.5 cm^3

Location and Number

Table 7-7: Assemblies Lubricated by Linear Guide Bearings

Lubricated Assembly	Qty.	Graphic
Face Printer	2	Figure 7-8

Figure 7-8: Face Printer Linear Bearings



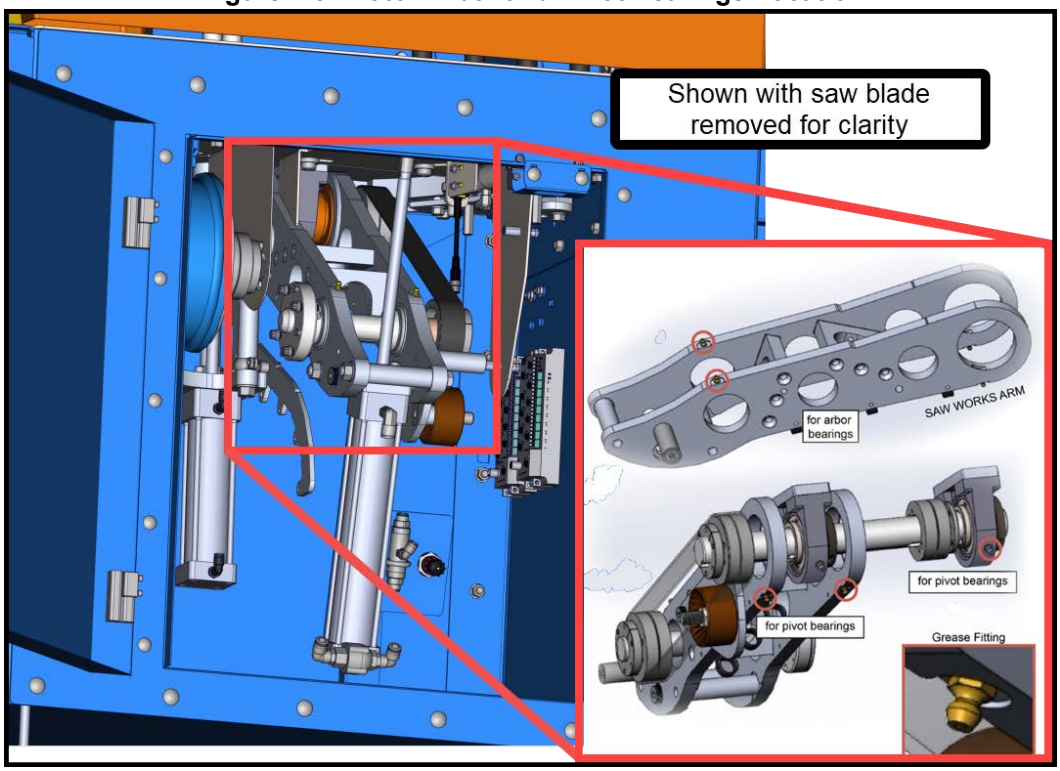
Motor Arbor and Pivot Bearings

The motor arbor and pivot bearings should be lubricated every month (one shift). Use a grease gun to apply 1.5 cm^3 of grease to the fittings shown in Figure 7-9.

Table 7-8: Grease Volume Per Bearing

Bearings	Amount
Motor Arbor and Pivot	1.5 cm^3

Figure 7-9: Motor Arbor and Pivot Bearings Location



Auto Loading Live Deck (if equipped)

Manual grease gun

No.2 lithium-based grease

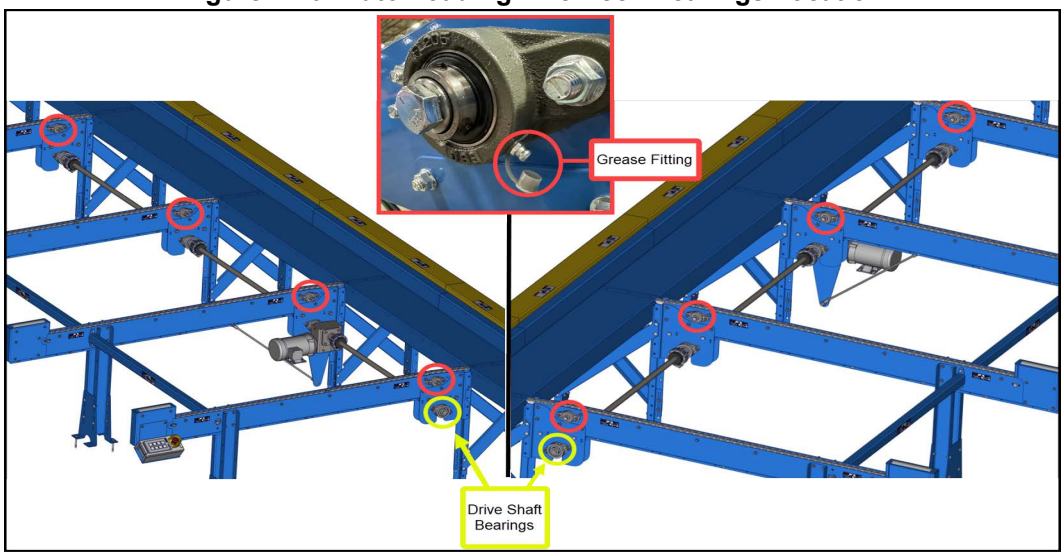
The auto loading live deck bearings should be lubricated every month (one shift). Use a grease gun to apply grease to the fittings shown in Figure 7-10.

Table 7-9: Grease Volume Per Bearing (Auto Loading Live Deck)

Bearings	Amount
Auto Loading Live Deck Bearings	0.5 cm^3

See Auto Loading Live Deck Drive Shaft (if equipped) on page 126 for information regarding the drive shaft bearings.

Figure 7-10: Auto Loading Live Deck Bearings Location



Auto Loading Live Deck Drive Shaft (if equipped)

Manual grease gun

No.2 lithium-based grease

Lubricate the auto loading live deck drive shaft bearings with #2 Lithium-based grease once a year. There is 1 grease fitting on each end of the drive shaft. See Figure 7-10 for the drive shaft bearing location.

Table 7-10: Grease Volume Per Bearing (Auto Loading Live Deck Drive Shaft)

Bearings	Amount
Auto Loading Live Deck Drive Shaft	0.5 cm^3

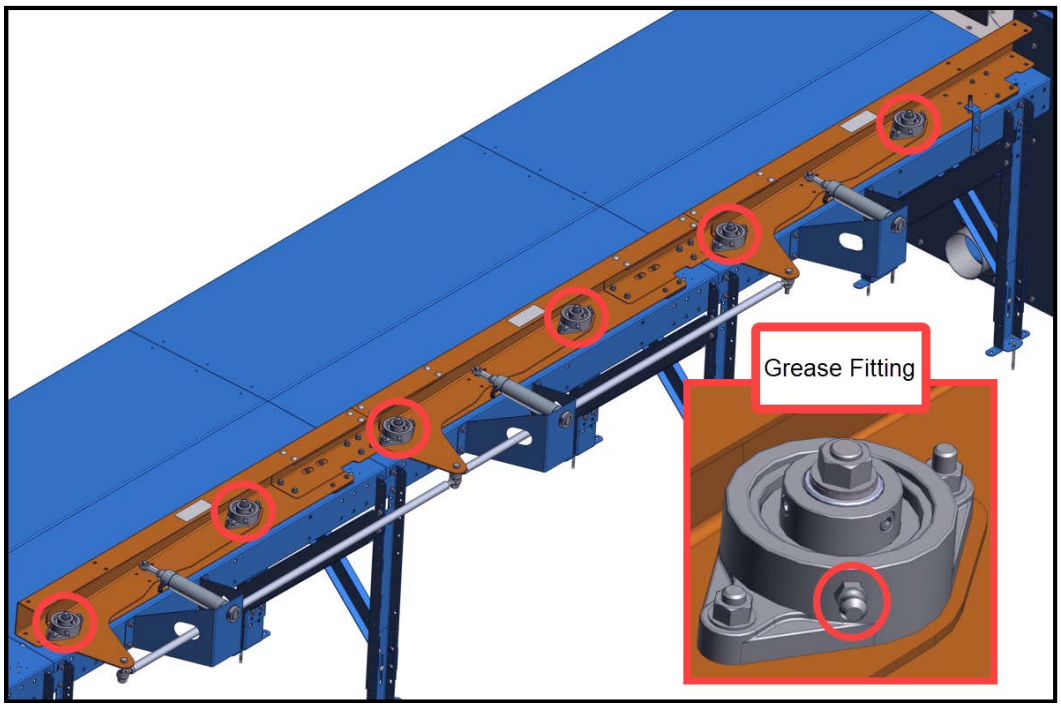
Outfeed Sweeper

The outfeed sweeper bearings should be lubricated every month (one shift). Use a grease gun to apply grease to the fittings shown in Figure 7-11.

Table 7-11: Grease Volume Per Bearing (Outfeed Sweeper)

Bearings	Amount
Outfeed Sweeper	0.5 cm^3

Figure 7-11: Outfeed Sweeper Bearings Location



Squeezer Arm

Manual grease gun

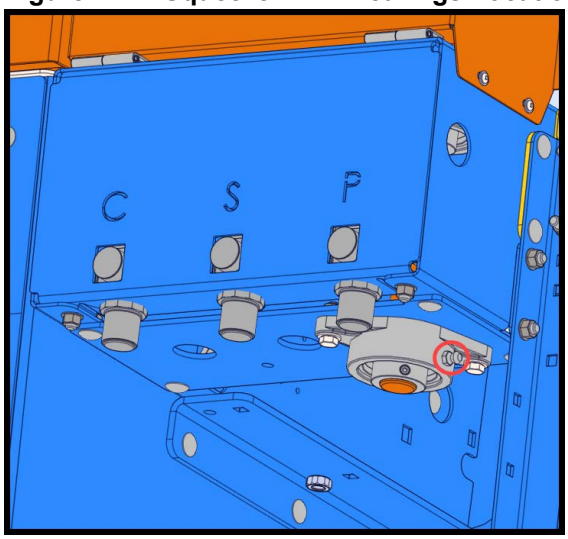
No.2 lithium-based grease

The squeezer arm bearing should be lubricated every month (one shift). The bearing is located under the gatekeep assembly. Use a grease gun to apply grease to the fitting shown in Figure 7-12.

Table 7-12: Grease Volume Per Bearing (Squeezer Arm)

Bearings	Amount
Squeezer Arm	0.5 cm^3

Figure 7-12: Squeezer Arm Bearings Location



Wheels

Lubricating Wheels

Support and Tracking Rollers

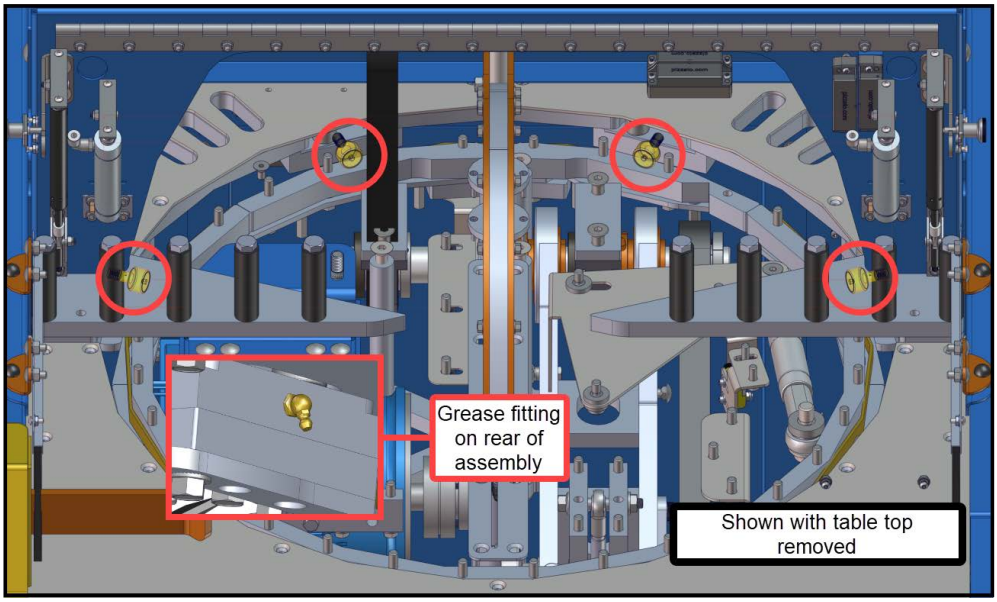
There are 4 support and tracking rollers that support the rotating saw table. The rollers should be lubricated every month (one shift). Use a grease gun to apply of grease to the fittings shown in Figure 7-13.

Table 7-13: Grease Volume Per Wheel

Wheels	Amount
Support and Tracking Rollers	0.5 cm^3

The stainless table top must be removed to access the support and tracking rollers.

Figure 7-13: Support and Tracking Rollers Location



Belts/Infeed Pusher

Blade Belt Replacement

1. Lockout/tagout.
2. Remove the guard between the motor and saw blade by removing the bolts indicated in Figure 7-14. Note that the guard has sensors that need to be removed before the guard can be removed. See Figure 7-35 on page 148.