

LUBRICATION

PreLubricated

Turner bearing units come standard with an approximate 1/3rd grease fill. The bearings contain Shell Gadus S2 V220 (Lithium 12 Hydroxy-based grease). Because the bearings come from the factory prelubricated, you should not typically need to add grease to the unit before placing it into service.

Relubrication

Depending on the application, relubrication may be necessary to maximize bearing life. In these instances it is important to add only the amount of grease listed in Table 14A. The purpose of this relubrication is to ensure that your bearing is not running dry, but take care not to overfill your bearing. Ideally, a 1/3rd grease fill should be maintained.

See Table 14B for information on the frequency of relubrication intervals. Please note that relubricating a bearing may cause the operating temperature of the bearing to increase. This increase is temporary and the bearing should return to normal operating temperature after a short period of time.

Before Relubrication

- Ensure that the grease you intend to install is compatible with previously installed lubricant.
- Clean the grease fitting and surrounding area.
- Clean nozzle or tip of greasing equipment.
- For best results, the bearing should be in rotation during relubrication.
- Filling a stationary bearing then quickly firing up equipment will often lead to bearing seal damage.

Over-Lubrication Warning

In most environments, completely filling a bearing with grease may significantly decrease bearing life. Do not relubricate a bearing with more lubricant than listed in Table 14A. Unless your bearing is in a very dirty or wet environment, avoid the practice of pumping grease until you feel resistance, or until lubrication is emitted from bearing seals.

TABLE 14B RELUBRICATION INTERVAL (HOURS OF SERVICE)

Shaft Size (in.)	100 RPM		250 RPM		500 RPM		1000 RPM		2000 RPM		3000 RPM	
	<160°	>160°	<160°	>160°	<160°	>160°	<160°	>160°	<160°	>160°	<160°	>160°
1 15/16 - 2	1600	800	1000	500	640	320	240	120	120	60	60	30
2 3/16 - 2 1/4	1200	600	800	400	440	220	160	80	100	50		
2 7/16 - 2 1/2	1120	560	720	360	360	180	120	60	80	40		
2 11/16 - 3	1040	520	680	340	340	170	100	50	60	30		
3 3/16 - 3 1/2	960	480	600	300	300	150	80	40	40	20		
3 15/16 - 4	840	420	520	260	240	120	60	30				

Grease Fittings

Turner spherical bearings come with a grease fitting installed. All fittings are straight. All fittings are 1/8" NPT.

**TABLE 14A
RELUBRICATION AMOUNTS**

Bearing Shaft Dia. (in.)	Fill Amount (oz.)
1 15/16 - 2	0.20
2 3/16 - 2 1/4	0.30
2 7/16 - 2 1/2	0.40
2 11/16 - 3	0.70
3 7/16	0.90
3 15/16	1.60

**ILLUSTRATION OF A TURNER
STRAIGHT GREASE FITTING**

