Preventative Ongoing Maintenance

In This Chapter...

Routine Maintenance

A routine maintenance schedule should be developed for every IronHorse motor installation based on the individual application. Motors installed in a harsh running environment should be serviced more frequently than those installed in a clean, climate controlled area. The following list should be used as a basis for creating the routine maintenance schedule.

1. Clean the motor housing using a brush, soft cloth or compressed air. Pay special attention to the cooling ribs on cast iron motors. Remove any dirt and dust from the fan and fan cover vents.
2. Frequently monitor the bearing temperature on the motor. It should not exceed 60°C (140°F).
2. Lubricate the bearings using the schedule shown below.
3. Have the insulation checked periodically by and authorized motor specialist.
4. Purge the bearing grease at least every six months on all motors with serviceable bearings. Replace both the drive end and opposite drive end bearings at the end of their recommended running hour life. Motors used in belt drive applications have a bearing life expectancy of 50,000 hours. Direct coupled application motors have a bearing life expectancy of 100,000 hours.

Bearing Lubrication Schedule

HP(1)	Drive End Bearing Lubrication(2)	Grease Amount(3)	Opposite Drive End Bearing Lubrication(2)	Grease Amount(3)
15	9000	0.46 oz	9000	0.29 oz
20				
25	7500	0.64 oz		0.46 oz
30				
40	7000	0.75 oz	7500	0.64 oz
50				
60	6500	0.86 oz	7000	0.75 oz
75				
100	3000	1.22 oz	6500	0.86 oz
125	2500	1.47 oz	6500	
150				
200	2300	1.61 oz		
250	2100	1.82 oz	2300	1.61 oz
300				

Notes:
1) Motors from 1/3 hp to 10 hp have sealed bearings.
2) Running time in hours.
3) Use only Exxon POLYREX® EM Polyurea grease.

Bearing Size Information

All IronHorse motors use premium SKF brand bearings. Below is a bearing size chart listing the type of SKF bearings used in each frame size of IronHorse motors. The bearing types are also listed on the motor nameplate.

Bearing Size Chart		
Frame Size	**Drive End Bearing SKF Type**	**Opposite Drive End Bearing SKF Type**
56C	203	203
143T	6205-ZZ	6205-ZZ
145T		
182T	6306-ZZ	6205-ZZ
184T		
213T	6308-ZZ	6308-ZZ
215T		
254T	6309	6209
256T		
284T	6311	6309
286T		
324T	6312	6311
326T		
364T	6313	6312
365T		
404T	NU316	6313
405T		
444T	NU318	
445T		
445/7T	NU319	
449T	NU320	6320