

TECHNICAL MANUAL

Lubrication of Pneumatic Hoists

Air Line Lubrication

Airline filter-lubricators are a necessity for long life of your tools and hoists. Oil injected in the tool and reconnecting to the airline lasts from 3 to 10 minutes of the tool running; the higher the tool speed the faster the blades heat, evaporate the oil, and run dry. Most blades travel a distance equal to 1.2 miles in one minute (*over 100 feet per second*) and centrifugal force gives even a small blade a weight equal to 5 or 6 pounds. The heat that is generated without oil will cause blades to chip and the chips get in bearings and cause failure. Dry blades heat, stick, and break or wear out in 20 hours or less. Properly lubricated blades can last 2,000 hours or more. How much oil is needed per minute of running? See chart below for the average use.

Motor Size	Drops per Minute	Motor Size	Drops per Minute	Motor Size	Drops per Minute
Up to 0.2 HP	1 to 3	MR70: 7.0 HP	16 to 21	MM: 15.0 HP	34 to 38
0.2 to 0.5 HP	2 to 5	A2: 0.6 HP	2 to 3	Hoist Series	Drops per Minute
0.5 to 1.0 HP	4 to 6	84: 0.9 HP	4 to 5	75250CA5	4 to 5
1.0 to 2.0 HP	6 to 10	A6: 1.9 HP	6 to 8	KS Series	5 to 10
2.0 to 3.0 HP	5 to 12	AS: 2.7 HP	5 to 10	K1 Series	5 to 10
3.0 to 6.0 HP	10 to 15	MA2: 1.5HP	6 to 8	TA Series	3 to 4
6.0 to 15.0 HP	12 to 20	MA3: 3.0 HP	9 to 11	P1 Series	3 to 4
MR10: 1.0 HP	5 to 6	MB: 5.5 HP	15 to 18	P2 Series	5 to 7
MR30: 3.0 HP	12 to 13	ME: 6.5 HP	16 to 19	P3 Series	8 to 10
MR50: 5.0 HP	13 to 17	MK: 11.0 HP	30 to 34		

Filters-Lubricators

For best results use 50 micron or better filters. Always mount lubricators as close to the hoist as possible. Always mount lubricator higher than the hoist or at least the same height. If you use a mist type and it is close to a hoist with long run cycles (*10 seconds or more*) you may get sufficient lubrication with the lubricator lower than the hoist. Use a lubricator for each hoist as feeding more than one hoist usually results in one hoist getting oil and the rest running dry and soon failing due to the lack of lubrication.

The lubricators that inject oil right at the inlet of the hoist, when each cycle is initiated, are excellent for short hoist lifts. This type of lubricator makes sure oil is at the hoist through the small feed tube inside the air hose. In the case of most hoists, it is often not easy to get a lubricator close to the hoist or on the same level or higher than the hoist. These "one shot" type lubricators will solve the problem.

Standard airline filters do not remove all the water in an airline. If you see water in your filter at the individual hoist you should consider a dryer at your compressor to protect your hoist from rust and early failure. Dryers can be refrigeration, coalescing, or desiccant type.

Lubrication Requirements

Part Number	Application	Hoist Model	Quantity
A123771	Hoist Rebuild	P1 Series	3 oz.
A123771	Hoist Rebuild	P2 Series	12 oz.
A123771	Hoist Rebuild	P3 Series	8 oz.





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Lubrication Products for GD Hoist

GD Hoist's products are classified as non-hazardous manufactured items, defined in the OSHA 1910.1200 Hazard Communication Standard as "Articles". These products, under conditions of normal use, do not release or cause exposure to a hazardous chemical.

Under normal conditions of use, lubrication products sold separately for or used within these hoists should not cause an exposure hazard. Refer to the Safety Data Sheet for Safety and Disposal Information. S.D.S. sheets are available upon request from GD Hoist.

GD Hoist is also aware of, and complies with, the provisions of section 611 amendments to the Clean Air Act of 1990. No ozone depleting chemicals have been used in the manufacture of our products.

If you resell or distribute these products, you have the responsibility for ensuring that the Safety Data Sheets are provided to the purchaser.

Proper lubrication is essential to the economical operation of pneumatic hoists. GD Hoist hoists perform better and their life is extended by using the recommended lubricants. The following lubricants have undergone extensive testing and are recommended for use with GD Hoist products.

Part Number	Size	Intended Usage	S.D.S. No
Greases			
A123771	16 oz. Can	Piston Hoist Motor, Piston Motor & Piston Motor Gearing	CPT-142
525430	16 oz. Can	75250AC5, K5, K1, P2 Hoist Gearing	CPT-143
540450	16 oz. Can	High Temp Greases for Piston Hoists & Motors	CPT-151
Oils			
535577	8 oz. Tube	Hoist Chain Oil	CPT-152

