

WheelMaster[®] Solid Lubricant Application System

DESCRIPTION

Graco's WheelMaster dramatically reduces wheel and rail wear for:

- Overhead cranes
- Straddle cranes
- Industrial locomotives
- Other material handling equipment running on steel rails

WheelMaster's block lubricant reduces the coefficient of friction to about one-fourth that on dry rails. This reduces the wear that causes rework or replacement of wheel and rail. In most applications, less power has to be transferred to the wheels to get machinery moving and keep it rolling. The reduction in energy usage may amount to 5% or more.

The solid lubricant block used in WheelMaster is long-lasting; it eliminates waste and contamination associated with oil and lighter grease lubricants; and much less lubricant is required. In typical applications, WheelMaster applies less than 2% of the lubricating material used with conventional grease systems. Because manual lubrication is eliminated, routine maintenance cost decreases as well.

WheelMaster can be used indoors or outside. There can be no run-off, no chance of accidental spills, or other handling problems.

FEATURES

WheelMaster consists of a bracket mounted steel applicator housing that holds the lubricant block. An internal spring exerts pressure on the grease block to force it against the flange area of a wheel. Usually, only one applicator is required for each side of your equipment.

The simplicity of WheelMaster makes it extremely reliable. There are no electric or pneumatic devices to wear out or fail due to shock and vibration. It is very easy to replace the lubricant block when a new one is needed. Routine maintenance is kept to a minimum.

The mounting bracket for the applicator is custom designed for each type of machine. This can be designed and supplied by the user, or by Graco. The steel



construction of the applicator and typical bracket make WheelMaster very robust. Both the applicator and lubricant block are designed to withstand high temperatures, making WheelMaster suitable for a wide range of environments.

OPERATION

When the machine is moving, lubricant is transferred from the lubricant block to the wheel flange. The amount of lubricant transferred depends on the amount of friction between the block and the flange. As lubricant is used up, friction increases so that more lubricant is transferred. This reduces the coefficient of friction so that less lubricant is required. This self-adjusting mechanism keeps an optimum film of lubrication on the flange area of wheel and rail at all times. Also, the carefully placed application avoids top-of-rail contamination that could interfere with traction and braking.

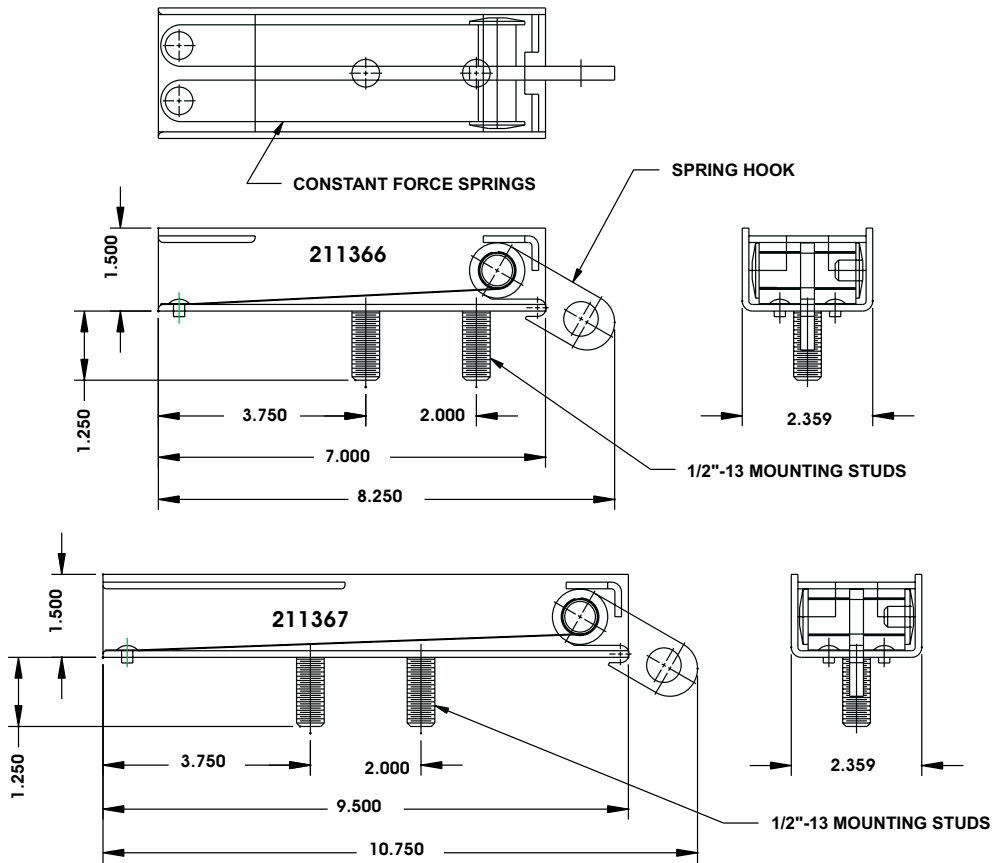
UNIQUE LUBRICANT PROPERTIES

The WheelMaster lubricant is a unique combination of oil, thickening agent, and anti-friction solids mixed with polymers to form a block. This block remains solid at temperatures up to 392° F (200° C).

Special solids used in the WheelMaster lubricant provide excellent anti-wear properties. These properties persist, even under extreme pressure. Pressures that destroy conventional oil and grease films activate the WheelMaster solids to form excellent metal-to-metal boundary films. The high temperatures produced by such heavy loads actually trigger beneficial chemical and physical reactions between the WheelMaster lubricant and the metal it is protecting. The result is a physically stable lubricant film that lasts a long time.

DIMENSIONS

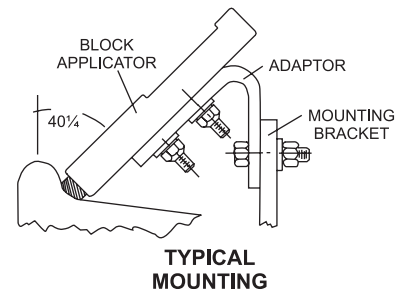
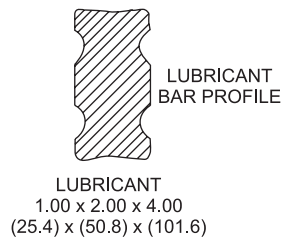
Inches (mm)



LUBRICANT SPECIFICATIONS

Physical Properties ¹			Performance Characteristics		
Property	Value	Units	Property	Value	Units
Specific Gravity	1.90 - 2.35	—	—	—	—
Tensile Strength	1400	psi	Coeff. of Friction, (Room Temperature)	.1 - .16	Amsler
PV	8000	—	Coeff. of Friction, 125°C	.1 - .16	Amsler
Service Temperature (max.)	392 200	°F °C	—	—	—
—	—	—	Top of Rail Contamination	0.0	—
Nominal Size	1x2x4	inches	—	—	—

Notes: A Material Safety Data Sheet for the WheelMaster lubricant is available from Graco.



HOW TO ORDER

WheelMaster applicators come in two lengths for either one or two (end-to-end) lubricant blocks. Lubricant blocks can be purchased singly, or in a case of 24. A lubricant block reloading tool is used to cock the spring to the loading position. Use the following numbers to order.

Item	Part Number
Short Applicator	211366
Long Applicator	211367
Single Lubricant Block	212705
Case of 24 Lubricant Blocks	210804
Lubricant Block Reloading Tool	211045

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Call today for product information or to request a demonstration.

1.800.U.S.A.LUBE (1-800-872-5823) or visit us at www.lubriquip.graco.com.

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