

Features Brochure

For The *Raymond*[®] Sit-Down Counterbalanced Trucks

ATTENTION

You may want to consider one or more of the following features if your sit-down Counterbalanced vehicles operate in certain environments.

Please note: some of these features create potential hazards that would not exist in their absence. Accordingly, these features should be selected only after careful consideration.

Purpose of this brochure:

Raymond products are designed to comply with the American Society of Mechanical Engineers' Safety Standard For Low Lift and High Lift Trucks, ANSI/ASME B56.1, The United States Department of Labor's Occupational Safety and Health Standards for Powered Industrial Trucks, 29 C.F.R. 1910.178, and Underwriters Laboratories, Inc.'s Standard for Safety Electric-Battery-Powered Industrial Trucks, UL 583. In their standard configuration, *Raymond* products minimize overall operational risk across the entire range of anticipated environment of use. For particular environments of use, however, modifications to this standard configuration may further decrease risk for those particular applications. This brochure is designed to acquaint the customer with some of the features available for use with *Raymond* sit-down Counterbalanced equipment. (Other brochures provide information regarding available features for pallet handling order picking, and sideloader material handling equipment.) Please carefully review this brochure and discuss with your Raymond dealer those features that may have utility in your specific application. These features may be ordered with a new truck or may be added to forklifts already in operation.

Scope of Brochure:

The following features are discussed in this brochure:

Lights and Alarms

- Audible Alarms
- Warning Light
- Work Lights

Barrier and Guard

- Load Backrest

Miscellaneous

- Mirrors

Training

- *Safety On The Move*[®] Operator Training Program

This list may be revised and individual items added or withdrawn at any time. Not all features offered by The Raymond Corporation are included in this brochure.

Additional features/configurations may also be available from Raymond. Specific inquiries will be evaluated upon request. Additionally, these features may also have application to other than the particular models listed.

Ask your Raymond dealer for more information.

RAYMOND
Above. And beyond.[®]

www.raymondcorp.com

Load Backrest:



In certain environments of use, high palletized loads or loads stacked higher than the height of the carriage must be handled. The load backrest is an extension of the carriage height and serves to stabilize and provide additional support for such loads. As a consequence, the expanded load backrest extension assists in preventing material from falling and reduces load damage.

Application Considerations:

- Increases extended height of the truck, which may interfere with ceiling clearance
- Decreases the amount of free lift by the same amount that the carriage height increases

Models

- All

Work Lights:



Certain load handling situations require more light than that provided by existing warehouse lighting systems. Work area lights are normally mounted in pairs, providing light to illuminate dimly-lit storage areas. As a consequence, work lights may thereby reduce operator eye-strain and increase productivity. The lights are individually adjustable by the operator to the application requirements.

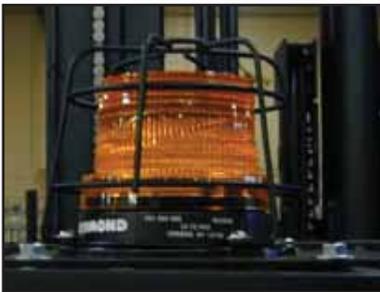
Application Considerations:

- May distract other operators or pedestrians in the same area
- May interfere with other operations in adjacent aisles

Models

- All

Warning Light:



Raymond forklifts are designed to provide excellent visibility when an operator is traveling in either the forks leading or forks trailing mode. Each forklift is equipped with a horn as standard equipment. The horn serves as a device to warn pedestrians and other truck operators of the presence of a truck. Accordingly, an operator is normally able to see pedestrians or other truck operators and warn them of a truck's presence. In certain environments of use, there may be a high level of pedestrian traffic, some of whom may be unfamiliar with forklifts and their operational characteristics. Additionally, some environments present high levels of ambient noise, making the horn and/or an audible travel alarm feature difficult to hear. The warning light may assist in providing an indication of a forklift's presence.

Application Considerations:

- Multiple lights in the same area may create confusion or indifference
- Effectiveness depends upon environment of use, including proximity of non-operators and/or pedestrians, light level in area, and numbers and types of equipment in use
- On certain trucks the overhead clearance is decreased
- Habitual use over time can reduce the effectiveness of the light
- May decrease operator and pedestrian vigilance and attentiveness
- May distract or annoy operators, other forklift operators, and pedestrians

Models

- All

Audible Alarm: (Motion or Back-up)



Raymond forklifts are designed to provide excellent visibility to the operator when traveling in either the forks leading or forks trailing mode. Each forklift is equipped with a horn as standard equipment. The horn serves as a device to warn pedestrians and other truck operators of the presence of a truck. Accordingly, an operator is normally able to see pedestrians or other truck operators and warn them of a truck's presence. In certain environments of use, however, there may be a high level of pedestrian traffic, some of whom may be unfamiliar with forklifts and their operational characteristics. Depending on operating environment ambient noise levels, an alarm may help to increase recognition of a forklift by pedestrians and the operators of other trucks. This feature is available in the forks leading or forks trailing travel modes. The alarm is high-pitched and automatically activates when the operator places the truck in the designated travel mode.

Application Considerations:

- Multiple alarms may be distracting and create confusion and indifference
- Effectiveness depends on environment of use, including proximity of non-operators and/or pedestrians, ambient noise level in area, and numbers and types of equipment in use
- Habitual use over time can reduce effectiveness of the alarm
- May decrease operator and pedestrian vigilance and attentiveness
- May distract or annoy adjacent property owners, operators, other operators, and pedestrians

Models

- All

Mirrors:



Raymond forklifts are designed to provide excellent visibility to the operator when traveling in either the forks leading or forks trailing mode.

In certain environments, a mirror may assist an operator in viewing the sides of a forklift or an area that is not in the operator's direct view. An operator must always look in the direction of travel, even when a forklift is equipped with mirrors, because the view provided by a mirror is not as complete as that afforded by looking in the direction of travel.

Application Considerations:

- May decrease operator vigilance and attentiveness
- May distort image and depth perception
- May impair forward visibility depending on the mirror's mounting location
- May be subject to vibrations, which can cause blurred images
- Effectiveness depends upon conditions in the operating environment, including light, temperature, and moisture
- May reduce operator's forward visibility by reflecting light in the operator's eyes
- Must be adjustable to accommodate various sized operators and are subject to misalignment

Models

- All

Safety On The Move[®]: **(Operator Training Program)**



The safe and efficient use of forklifts depends, among other things, upon operators being properly trained. The United States Department of Labor - Occupational Safety and Health Administration (OSHA) requires that employers ensure that only trained operators operate powered industrial trucks. OSHA further requires that employers implement methods to train operators. This training must address both the specific type of equipment they will use and the conditions and characteristics unique to their place of work. *Safety On The Move* is a training program that focuses on the most frequent hazards experienced by vehicles in the workplace: ramps, loading docks, corners, loads, lifting procedures, and pedestrian areas. Using a series of videos, this program takes the trainee through all aspects of the topic. The operator will learn how to control and operate forklifts and how to abide by the 'rules of the road' around the plant or warehouse.

Application Considerations:

- Assists employers in complying with their duty to ensure that lift truck operators are properly trained
- Assists in proper operation of equipment

Models

- All

RAYMOND
Above. And beyond.[®]

The Raymond Corporation
P.O. Box 130
Greene, New York 13778-0130
Toll free 1 (800) 235-7200
Fax 1 (607) 656-9005

www.raymondcorp.com

The pictures in this brochure are merely demonstrative and do not necessarily depict the exact characteristics of the feature described. Your authorized Raymond Dealer can provide you with the exact specifications of this feature.

Raymond and *Above. And beyond.* are registered trademarks of The Raymond Corporation.
© 2006 The Raymond Corporation, Greene, NY. Printed in USA 1059310A 406JCP-10