



CASE STUDY



1 | Challenge: A customer in the food and beverage industry has a Division 1 rated hazardous area that requires an EX-rated lift truck for handling materials.

The customer required a powered, EX-rated lift truck to replace their existing manual unit to increase production, as well as reduce downtime and operator fatigue. Class 2, Division 1, Group G materials such as powders are commonly used in food and beverage and are often explosive, requiring an explosion-proof lift truck.

In the food and beverage industry, there is frequent use of manual lift trucks due to their ability for operating in hazardous locations. This often results in increased downtime and operator fatigue, as the use of manual trucks is more labor intensive and slower than a powered unit.

In this industry, high shelving is used to maximize storage. This requires a lift truck with high fork height reach and clear mast design for easy load spotting. Because manual lift trucks also utilize manual (crank) lifts, a powered lift truck is needed to reduce fatigue, risk of injury and reach the high shelving in the facility.

This particular customer has a hazardous rated room where

they deliver, or set, materials. A manual pallet truck picking up a load in the non-hazardous environment was then be physically pushed, or pulled, into the hazardous rated room.

Once production was completed, the manual pallet truck would then be used to remove materials from the environment. The loads would then be picked up with an EE rated truck to finish the process of loading and racking.

To complete this process, it was required for production to be stopped and the hazardous room vacated, in order for product to be brought down from racking, as the customer cannot use the non-compliant lift in the rated room during production.

Capacity

6,000-pound load capacity

Hazardous Location

Class II
Division 1
Group G

Operation

Electrically powered
explosion-proof
lift truck

High Lift

High shelving in
excess of 15 feet

When the need arises for a flexible solution, the DSD-EX-AC-60 sit down counterbalanced model fits both transport and lifting to stack on shelves. The DSD-EX-AC-60 meets increased production times and is the best option.

Tony Bartinelli,
RICO Manufacturing Inc.

Capacity

6,000-pound lift truck enables customer to move loads more efficiently

Hazardous Location

Approved for use in Class II, Division 1, Group G hazardous environments

Operation

Powered lift truck increases operator production and decreases downtime

High Lift

Variable forklift height design through mast staging for heights over 15 feet

2 | Solution:

Powered, explosion proof high lift, high capacity sit down counterbalanced truck with standard forks.

RICO EX sit down counterbalanced trucks feature high lift capacity and clear mast design for easy load visibility.

RICO meets the special needs of food & beverage manufacturers requiring a high-capacity lift truck built for hazardous locations with a standard solution with minimal design changes — the DSD-EX-AC-60.

Starting with a standard RICO EX design model and employing minimal modifications, RICO provided this customer with a cost-efficient solution through reduced up-front engineering.

The RICO EX truck utilizes standard components, enabling the customer to optimize repair inventories and shorter order lead times. The RICO DSD-EX-AC-60 features high lift heights and a clear mast design for easy load spotting to navigate safely when picking loads. Standard safety

and ergonomic features ensure operators have maximum control for efficiency and productivity while maintaining OSHA compliance.

By building a powered, EX-rated truck, RICO also solved the issue of using a manual lift truck to move material into a hazardous rated room, decreasing downtime and reducing operator fatigue.

Other custom EX lift trucks RICO has developed for the food and beverage industry include:

- **Pallet rider (stand up) truck**
Load capacity of 6,000 pounds
Small footprint and low lift
- **High Lift straddle walkie handler**
Load capacity of 6,000 pounds
High stacking capability
- **Reach rider (stand up) truck**
Load capacity of 6,000 pounds
Stacking capability with ability to reach beyond outriggers

Our approach to material handling is as unique as your needs. Our policy is to listen to our customers, provide customized solutions, and engineer a truck that is tailor-made to meet your specific requirements.

Key Benefits

- Improved operator performance
- Built to ANSI B56 Safety standard for industrial truck and FM approved
- Increased production time
- Single, two stage or triple stage mast style lift
- Standard RICO EX design

3 | Product ► DSD-EX-AC-60 | Sit Down Counterbalanced Forklift

RICO Manufacturing, Inc.
691 West Liberty Street, Medina, OH 44256

P: 330.723.4050 | marketing@ricoequipment.com | www.RICOequipment.com



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Owned and Operated

