



## CASE STUDY



### 1 | Challenge: A custom EX-rated lift truck that could operate in a hazardous environment, within tight spaces, be able to reach high locations and have forks that extend past the outriggers of the vehicle.

A customer in the pharmaceutical industry has a Division 1 rated hazardous area that requires an EX-rated lift truck. The room features narrow aisles, high shelving and unique flexible handling requirements within the hazardous environment requiring a custom lift truck.

In the manufacturing of pharmaceuticals, factories are often built with space saving in mind to optimize production and storage. This results in narrower aisles, smaller workstations and tighter spacing between machines in comparison to other manufacturers.

Additionally, pharmaceutical facilities feature high shelving to maximize storage. These features necessitate the use of lift trucks with slender profiles, high maneuverability, and compact operator controls or service access.

Throughout the manufacturing process, materials are moved between different locations and scales are often utilized within the hazardous environment to ensure precision and accuracy of products.

EX-rated lift trucks operating in these areas must be able to extend beyond the truck's outriggers to lift loads at full height, transport loads between locations, and be flexible in functionality to place and remove loads from scales.

#### Size

Narrow aisles require smaller truck footprint

#### High Lift

Storage racking configurations require high lift reach capability

#### Application

Pantographic reach functionality to accommodate scales

#### Capacity

Loads in excess of 4,500 pounds require higher load capacity capability

Sometimes thinking inside the box is okay. The use of our EX Rider Reach truck by pharmaceutical manufacturers is one example when a standard RICO EX lift truck with minor modifications is the perfect solution for a customer's unique application!

Simple or complex, when you need an EX lift truck — think RICO!

**Tony Bartinelli**  
**RICO Manufacturing Inc.**

### Size

Small footprint for tight turning and fit into narrow aisles

### High Lift

Designed with variable forklift heights through mast staging for heights over 15 feet

### Application

Pantographic reach to lift and place product on locations past lift truck outriggers

### Capacity

Load capacity up to 6,000 lbs

## 2 | Solution:

### Explosion Proof high lift, high capacity rider reach truck with standard forks and the highest capacity in the market.

The RICO RR-EX-60 model features a pantographic reach design enabling loads to be lifted and placed safely beyond the outriggers of the vehicle allowing greater flexibility in handling.

The footprint of the truck, both length and width is critical in small, tighter applications such as those found in pharmaceutical manufacturers.

RICO meets the unique needs of pharmaceutical manufacturers requiring high-capacity lift trucks built for aisles and tight turning radiuses with a standard solution and minimal design changes.

The RICO RR-EX-60 features a slim profile and handling design that enables the truck to navigate small work stations or aisles within the hazardous area. The reach function allows for a small overall footprint with the ability to extend the load beyond the outriggers. Standard safety and ergonomic features ensure operators have

maximum control for efficiency and productivity while maintaining OSHA compliance.

Starting with a standard RICO EX design model and employing minimal modifications, RICO provided the customer with a cost efficient solution through reduced up-front engineering and standard components for reduced repair inventories within a shorter lead time.

Modular mast designs are available on the RR-EX-60 model enabling customers to select the optimal mast style for their application to ensure accuracy in lifting.

Other custom EX lift trucks RICO has developed for the plastics industry include:

- **Pallet walkie handler**  
Load capacity of up to 12,000 pounds  
Great for narrow applications
- **Sit down counterbalanced lift truck**  
Load capacity of 6,000 pounds  
Higher capacity and lift heights
- **Straddle walkie lift truck**  
Load capacity of 6,000 pounds  
Very small footprint

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 tailored to meet your specific requirements.

## Key Benefits

- Single, two stage or triple stage mast style lift
- Highest capacity reach available in the industry
- Narrow turn radius
- Small footprint
- Pantographic reach
- Standard RICO EX model

## 3 | Product

### ▶ RR-EX-60 | Rider Reach Explosion Proof Lift Truck

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

