

Modified PK Electrically-Released Brake

FORKLIFT TRUCKS

PROBLEM

One of the largest producers of lift trucks in the world required an advanced braking solution for its Next Generation 3,000-4,000 lb. capacity, three-wheel truck series.

SOLUTION

Warner Electric created a new design of the dual-function, parking and emergency PK-35 brake that allowed the unit to fit in the customer's confined space while providing dynamic control on in-line drive units/traction motors for increased maneuverability and operational improvements.

The new brake enhancements included a special hand release lever, a lower profile design, and a dual voltage coil. The brake is enclosed to prevent ingress from environmental contaminants. These options existed on other forklift brakes, but were usually a significant added cost. The redesign work created a solution which allowed these features to be integrated while remaining cost-competitive with older brake versions.

Extensive prototype life-cycle testing was conducted at select field locations which simulated a fully loaded truck traveling at various speeds to confirm that the brake met required holding torques.

According to customer's product design engineer, "Warner's design expertise and rapid response to resolving issues were important in this application, we had a successful working relationship with Warner for years and they understand our needs. Their response is always quick. Warner had knowledge of where we were starting and where we wanted to go."

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HIGHLIGHTS

- Dual-function, parking and emergency braking
- Low profile, space saving design
- Manual override allows ease of vehicle towing
- Totally enclosed for added protection from debris and moisture
- Easily accessible and removable for servicing

