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Product

B-Track Modified K2 Electric Actuator

Application

Military Terrier Vehicle

Highlights

- Patented in-line load transfer
- Up to 1500 lbs. (6672 N) load capacity
- Designed for rugged-duty applications
- Bronze or Delrin® nut options available for high impact load applications

A leading global defense contractor needed a robust electric actuator for an armored combat engineer vehicle used by the British Army. The 33 ton (30 tonne) vehicle features a front bucket and a side-mounted excavator arm for earth moving and obstacle removing. The compact, tracked vehicle is designed for exceptional mobility with a top speed of 43 mph (70 km/h) combined with the ability to be air-transported via military cargo planes. A single electric actuator engages the vehicle's parking brake via a linkage that extends locking arms to both the left and right tracks.

To meet the specific application requirements, Warner Linear engineers developed a modified K2 actuator. The custom actuator features special gearing, a hi-temp motor, a parking brake, an extra long rod, special grease, and triple rod bearings.

B-Track K2 models feature a DC motor, an Acme screw and a heavywall extension tube with a 30% stronger cross section compared to competitive products. Ball bearings are utilized instead of thrust bearings to provide more load capacity. A high-strength aluminum gearbox provides maximum heat dissipation and high-strength stainless thru-bolt fasteners provide high-load capability.

The rugged-duty actuators incorporate a patented in-line load transfer design which provides high load capability for efficient power use in a compact package size. Units offer excellent corrosion resistance, hardened gears, and O-ring seals. IP69K-rated K2 actuators are ideal for use in dusty or muddy battlefield conditions with a temperature range of -20° F to +150° F (-29° C to +65° C).

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