



## Product

## LKB Brakes

## Application

## Mine Shovel

## Highlights

- Spring-set, pneumatically-released brakes
- Non-asbestos lining materials with large pad areas for maximum heat dissipation
- High-strength alloy steel drive studs
- Actuation springs sized for maximum life
- Induction hardened hub splines

An iron ore mine operator in Peru needed to replace some of the brakes on one of its rope shovels imported from China. The electric-powered shovel utilizes a series of electric motors with brakes to drive the hoist, propel and swing movements. Unfortunately, the original Chinese-made brakes didn't perform as expected.

The operator initially installed replacement brakes from two different Industrial Clutch competitors. However, these brakes utilized full-disc friction material that did not meet performance criteria. Ultimately, Industrial Clutch was contacted. Based on extensive experience with braking system requirements for all types of mine rope shovels and draglines, Industrial Clutch provided LKB 117 spring-set, pneumatically-released brakes, with 37,230 in.lb. torque capacity, for the hoist and propel drives.

Heavy-duty LKB brakes are an extremely popular choice for mine shovel and dragline applications worldwide. Units feature high-energy metallic linings with large swept areas ensuring excellent heat dissipation, uniform stopping distances and long lining life. All models also feature high-strength alloy steel drive studs, actuation springs sized for maximum life, and long-life piston seals. Long spline lengths on the brake discs maximize load-carrying capacity.

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