



HIGHLIGHTS

- BSFH 520 dual-spring hydraulically released caliper disc brakes
- 960,000 N combined braking force
- SOBO iQ unique soft braking control
- SOBO iQ hydraulic power unit, manufactured in-house

Application Success Story



BSFH 520 Braking System with SOBO® iQ Coal Mine Service Hoist

PROBLEM

A major mine hoist OEM required a complete braking system for a 40-ton hoist at a coal mine. The service hoist transports personnel and supplies at the underground mine, one of the deepest in America, that provides premium coking coal to steel mills around the world.

SOLUTION

Based on many previous successful collaborations, the OEM contacted Svendborg Brakes for a low-speed braking system. To meet the hoist's emergency stopping and parking requirements, Svendborg Brakes supplied Model BSFH 520 spring-applied, hydraulically released, dual-spring caliper brakes with 160,000 N braking force each. The pedestal-mounted brakes act on two separate large diameter discs installed on either end of the hoist's single drum.

The braking system included a SOBO® iQ hydraulic power unit and a SOBO iQ control which were selected to provide smooth, controlled stops under all circumstances including power loss.

Svendborg Brakes' industry-leading SOBO iQ braking controller combines cutting-edge technologies to provide significant flexibility, safety and durability on mine hoists and conveyors. The controller features three-state digital modulation and a revolutionary dual-loop PI control (pressure/speed). The pressure control is based not only on speed but also on deceleration. SOBO iQ controls braking torque by comparing a preset speed ramp with actual hoist speed feedback.

Specialized SOBO iQ hydraulic power units are manufactured in-house and are engineered to perform in tough mining applications. The units are equipped to monitor oil level and temperature, motor and pump function and operational pressure.

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