



Product

BSFH 520 Braking System with SOBO®

Application

Copper Mine Conveyors

Highlights

- BSFH 520 monospring brakes
- 134,354 ft.lbs. (182,160 Nm) total nominal braking torque
- Unique soft braking control (SOBO)
- Hydraulic power units manufactured in-house

Svendborg recently supplied complete braking systems for use on a series of three downhill in-line conveyors at a large copper mine in Chile. Two of the conveyors are 1600 m (1 mile) long and the third is 700 m (.4 mile) long. The conveyors can transport 5,000 tonnes/hour with a belt speed of 5.5 m/s (12.3 mph).

The braking systems provide emergency stopping and parking functions. Each conveyor braking system consists of two model BSFH 520 caliper disc brakes, SOBO controls, hydraulic power unit and disc.

The spring-applied, hydraulically-released BSFH 520 brakes act on a 1.6 m (5.2 ft.) diameter disc mounted on the low-speed side of the drive shaft. The brake system, provides up to 134,354 ft.lbs. (182,160 Nm) nominal braking torque to stop the conveyor in a controlled manner over a 50-second time period.

Svendborg's unique soft braking control (SOBO) provides a range of safety and durability benefits in heavy industrial applications including mining. Deceleration and the stopping of heavy conveyor loads is critical, and controlled braking is essential for a significant reduction of torque peaks, preventing damage to the belt and mechanical components. Manufactured in-house, Svendborg's specialized hydraulic power units are engineered to meet any mining requirement. In order to minimize downtime, the braking systems are equipped to monitor oil level and temperature, motor and pump function, and operational pressure.

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