



## CUSTOMER

**BDI Canada Inc**  
(Dellner Brakes' distributor in Canada)

## END USER

**Niobec Mine, Canada**

## BACKGROUND

The Niobec mine is the only underground niobium mine in the world and is 540 m (591 yd) deep. Niobium is an ingredient in special alloy steels such as ferroniobium, which is used to construct buildings and architectural structures.

The mine winch transports both people and ore, and has a maximum capacity of 16 tons (35,300 lb).

## APPLICATION

The brakes are used to slow down and/or stop the elevator during an emergency.

The braking system consists of four Dellner SKP 95-27 spring applied, hydraulically released disc brakes on two 1,000 mm (39.4 in) diameter brake discs (two on each disc) and one hydraulic power pack.

The braking torque generated from this system is 24,500 Nm (216,900 lbf-in) per brake disc, with 115 bar (1,670 psi) releasing pressure.