



HIGHLIGHTS

- VMS3/SPS units provide a braking force of 240 kNm at 2.5mm air gap
- Units are easy to set up and maintain
- Brakes are totally sealed for exceptional corrosion and dust protection



Twiflex VMS3/SPS Spring-Applied, Hydraulically Released Brakes

Mine Hoist

PROBLEM

An industry leading designer and manufacturer of mine hoists needed a braking solution for use at a gold mine in northern Canada. The mine is projected to process 7,000 tons throughput per day, producing 600,000 ounces of gold per year over a 15 year lifecycle.

SOLUTION

Twiflex supplied VMS3/SPS calipers for installation on the 20 ft. diameter double-drum, single-clutch mine hoist which has two brake discs: one disc is positioned on the fixed drum and one disc on the clutched drum. Each brake produces 240 kN braking force at a 2.5 mm air gap with > 2 million cycles fatigue life available at this rating.

The mine-ready, robust design of the VMS3/SPS features a strengthened housing which integrates additional springs for improved braking force. Totally sealed to give excellent corrosion and dust protection, the brake design offers set-up and maintenance advantages including tamper-proof pad/air-gap adjustment, external pad retraction, on-site torque adjustment and a "Park-Off" feature which allows for fast seal changes without special tools. Seals can be changed from the rear without having to remove the brake from its mounting.

The VMS3/SPS design also integrates small size pistons for quicker reaction times, coupled with an improved drainage system and a reduced retraction pressure of 137 bar at this rating. Braking force can be simply changed (up to 275 kN at 3 mm air gap) by adding or removing shims located behind the rear cover. In addition, sensors can be supplied which work in conjunction with the customers' PLC to signal brake on/off and pad wear.

Europe **+44 (0) 20 8894 1161**
twiflex.com

US **1-844-723-3483**