



Product

Marland BCMA Backstop

Application

Coal Mine Inclined Conveyor

Highlights

- Holding torque of 975,600 Nm (720,000 lb.ft.)
- Highest reliability
- Full torque load testing performed
- Self-lubricated, sealed oil chamber
- 20-year, 24/7/365 service life

A new Midwestern mine needed a backstop solution for an inclined conveyor that transports coal up to the top of a preparation plant where the coal falls through various sizing screens for sorting prior to shipping. The plant has a throughput capacity of 1,800 tons per hour. The backstop prevents uncontrolled reverse runaways of the conveyor in the event of an unplanned power outage or mechanical failure in the drive.

To meet the application requirements Marland supplied a BC-720MA model with a guaranteed backstopping holding torque of 975,600 Nm (720,000 lb.ft.). The ramp-and-roller style backstop is designed to operate in an environment of airborne grit in temperatures that reach 115 degrees F. The unit features a grease labyrinth seal that prevents dust from attacking internal oil lip seals that could wear and leak if infiltrated.

For maximum effectiveness the backstop was installed on the conveyor's low-speed pulley head shaft opposite from the speed reducer and coupling.

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