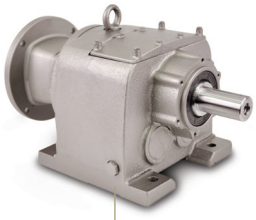
Boston Gear
Altra Industrial Motion

Application Profile



Product Series 2000 Inline Drive

Application **Coal Mine Stacker**

Highlights

- Efficiency of 98% per gear mesh
- High-ratio reductions
- Steel-hardened, ground and polished helical gears
- Magnetic entrapment of metallic wear debris provides maximum life

A coal mine needed a new drive for the rope winch on its stockyard stacker. Coal is fed into the rail-mounted machine via a conveyor. The machine slowly moves down the track as it deposits the coal into stacks via a boom-mounted conveyor. Ropes/cables are used to luff (raise and lower) the boom as the height of the stockpile changes.

A winch is used to draw the heavy-duty cable (rope) from the drum and pull it through the machine's conveyor boom sheaves during routine rope replacement operations. The speed reducer is positioned between the electric drive motor and the winch cable drum.

To meet the application requirements, Boston Gear recommended a Series 2000 helical inline gear drive. The double reduction model has a NEMA C-Face motor input with a 3-Jaw coupling. Machined mounting registers allow for quick alignment so installation is fast and easy. The rugged cast iron housing with heavy-duty ground steel gears are designed to withstand adverse mine conditions.

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