Boston Gear
An Altra Industrial Motion Company

Application Profile

Product

Series 2000 Inline Drive

Application

Mine Rope Shovel

Highlights

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

An operator of a large open pit mine in the Western US needed a replacement drive for the rope winch on one of its shovels. The winch, located inside the shovel's housing, is used to draw the heavy-duty cable (rope) from the drum and pull it through the boom sheaves during routine rope replacement operations. The speed reducer is positioned between the electric motor and winch drum.

To meet the challenging 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. The rugged cast iron housing with heavy-duty ground steel gears are designed to withstand adverse mine conditions. Machined mounting registers allow for quick alignment so installation is fast and easy.

US (Application Assistance)
1-800-816-5608
bostongear.com

Asia Pacific
For a list of our AP sales offices:
altramotion.com/contactus

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