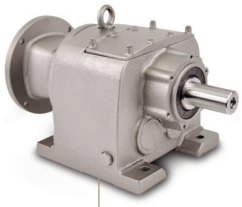
Boston Gear
Altra Industrial Motion

Application Profile



Product

Series 2000 Inline Drives

Application

Mine Sedimentation Tanks

Highlights

- Triple reduction drive
- 136:1 reduction ratio
- Efficiency of 98% per gear mesh
- Magnetic entrapment of metallic wear debris provides maximum life
- High corrosion and abrasion resistance

A mine operator in the Western US needed replacement gearboxes for its sedimentation tank drives. The circular tanks have a rake or scraper arrangement at the bottom to remove sludge, and a skimmer at the top to remove the scum. The scrapers and skimmers rotate continuously at very slow speeds.

Positioned above the center of the tank, the speed reducers are mounted between the electric drive motor and the vertical scraper/skimmer driveshaft that extends to the bottom of the tank.

To meet the challenging slow speed application requirements, Boston Gear supplied a triple reduction Model 2073 with a ratio of 136:1 and a rated output torque exceeding 7,700 lb.in. The unit features a coupling-style, NEMA C-Face motor input. The energy efficient units replaced worn worm gear reducers.

Low maintenance Series 2000 models feature automatic magnetic entrapment of wear debris and synthetic lubrication for extended gear life. Premium acrylic paint emulsion pigmented with alloy 316 stainless steel flake provides high corrosion & abrasion resistance for long term durability in this tough mine environment.

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