



Product

Series 2000 Helical Bevel Gear Drive

Application

Mud Pump Agitators

Highlights

- Torque range from 71 in.lbs. (8 Nm) to 46300 in.lbs. (5231 Nm)
- Unique rounded housing surfaces for easier cleaning
- Dimensional drop-in replacements for major competitive products

A mud pump agitator manufacturer was looking for an alternative to their existing gearboxes. Mud plays an important part in drilling bore holes during oil and gas exploration. The drilling mud is pumped into the bore hole under pressure and primarily serves as a lubricant, protecting the drill by reducing the friction during the drilling process. The agitator impellers maintain uniform fluid/solid mud consistency.

In response to the opportunity, Boston Gear supplied a Series 2000 right angle helical bevel gear drive for customer testing. The customer was particularly interested in the unit's unique mounting registers and keyless tapered bushings that allow for fast and easy installation.

Series 2000 gear drives require low maintenance with unique rounded housing surfaces for easy cleaning, premium acrylic paint pigmented with 316 stainless steel flake for high corrosion and abrasion resistance, and integrated O-rings for high leak and ingress resistance. Design flexibility is enhanced with a large assortment of shaft options, and a variety of optional hollow bore sizes and input styles. With efficiency of 98% per gear mesh, Series 2000 units are ideal for use in applications with a high-ratio reduction or continuous or high duty cycle operations.

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