



Product

QC700 Series Reducers and DC Motors

Application

X-Ray Tables

Highlights

- 60:1 Reduction ratio
- QC Quick-Connect coupling
- Rugged reducer housing of fine-grained, gear quality cast iron provides maximum strength and durability
- PosiVent®, unique pressure compensation system
- World-class worm gear technology provides quiet operation with efficiencies that can exceed 90%
- Double lip oil seals for leak-free performance
- 1/3 hp PM motors are totally-enclosed and non-vented
- Motors feature quiet operation

A leading manufacturer of high-performance digital and analog medical imaging systems required a motor/reducer drivetrain for use on their line of X-Ray tables. The drives needed to provide smooth, quiet table elevation while handling patient weights up to 650 lbs.

Boston Gear QC700 Series speed reducers and matching DC motors were selected to meet the challenge. The pre-assembled, engineered solution provided sourcing convenience as well as maximum performance and life of the paired components.

The QC700 Series features a completely self-aligning coupling that eliminates the need for a slot in the flange and allows for quick motor and reducer assembly. The QC design incorporates a dual-flat torque transmitting surface between the coupling and the worm shaft that minimizes fretting corrosion to prolong product life. The design is also more compact in overall length as compared with traditional coupling-style mounting. PosiVent®, an entirely unique pressure compensation system that eliminates the need for breather vents, prevents dust from infiltrating the gearbox.

The internal worm is specially-ground for enhanced efficiency, quiet operation and lower heat generation leading to prolonged product life. All models are leak-free, self-contained and lubed-for-life with H1 food-grade lubricant (Klubersynth UH 1 6-460).

The extremely reliable Boston Gear 1/3 hp permanent magnet motors supplied are totally-enclosed and non-vented, yet provide superior heat dissipation in a small footprint. Especially important in this application, motors are very quiet with no field hum.

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