

QC700 SERIES GEARBOXES

POULTRY PROCESSING CONVEYORS

PROBLEM

A leading U.S. poultry processing company wanted a better gearbox solution for use on conveyor systems throughout its various plant locations. High volume production demands require 24/7 operation for many of the conveyors. These rigorous conditions reduced motor service life, causing the motors to be replaced frequently.

The problem was that fretting on the conveyor's motor shaft often "rusted" the shaft to the gearbox. This condition required maintenance workers to hammer on the motor and gearbox to separate them. The process often caused damage to the motor shaft and gearbox, resulting in the need to replace the gearbox along with the motor.

SOLUTION

To solve the expensive ongoing problem, Boston Gear developed the QC700 series right angle gearbox with a 3-piece coupling in a short/compact design.

QC700 Series gearboxes feature a completely self-aligning coupling that eliminates the need for a flange pry slot and allows for quick reducer removal and replacement. The pry slot removal keeps the input seal in a protected/cleaner environment for longer service life. The QC "Quick Connect" design incorporates a three-piece flexible coupling that minimizes fretting corrosion and makes motor separation easy.

Units feature a 4-bearing design for superior shaft support on both input and output shafts. The 4-bearing design also keeps the high speed shaft steady during installation and operation. The design can withstand heavier shock loads and eliminates movement of the input shaft and premature leakage. 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 Boston Gear reducer, with proven 700 Series worm gear reliability, features a 40:1 reduction ratio, cast iron housing, hollow shaft, motor flange and double-lipped oil seals. Units are "Lubricated for Life" at the factory with H1-rated food grade Klubersynth UH1 6-460 lubricant.

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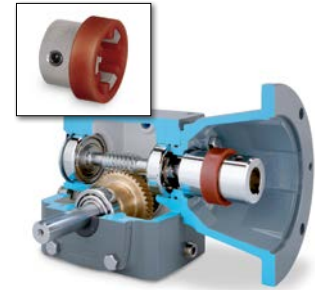
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HIGHLIGHTS

- Quick-Connect (QC) 3-piece coupling
- Heavy-duty 4-bearing design
- Rugged reducer housing of fine-grained, gear quality cast iron provides maximum strength and durability
- World-class worm gear technology provides quiet operation with efficiencies that can exceed 90%
- Double lip oil seals for leak-free performance
- IP69K washdown rating option available on full stainless steel models

