



Product



Application

Custom Series DNF Motors

Poultry Plucking Machines

Highlights

- Custom non-ventilated motors
- IP66 Sealing
- High tensile strength studs with locking compound
- Constant-torque-rated, heavy-duty motor windings
- Extra sealant applied to front and back covers
- Heavy-duty epoxy paint
- COR03 corrosion protection

A large poultry producer located in California needed replacement motors for use on its plucking (de-feathering) machines. The motors drive a series of rollers covered with hundreds of rubber “fingers” that remove the feathers as suspended poultry carcasses pass through the machine.

The problem was that the existing competitor motors were ventilated (fan-cooled) and only had standard IP54 sealing. The fans would quickly get clogged with feathers causing the motors to overheat. The motors were also adversely affected by the water and chemicals used during routine cleanings and washdowns. These tough operating conditions led to the failure of 21 motors in a recent 3-month period.

After a review of the application requirements and motor specifications, Bauer Gear Motor began supplying non-ventilated 5 and 7.5 HP Series DNF motors with enhanced IP66 sealing. All units included a “Mill-duty” package consisting of high tensile strength studs with locking compound to prevent loosening due to extreme vibration. The package also included constant-torque-rated, heavy-duty motor windings and extra sealant applied to the motor’s front and back covers. A heavy-duty epoxy paint was also utilized.

During the same 3-month operating period, only 9 Bauer motors needed to be replaced compared to the 21 competitor motors that failed. The customer was very pleased with the results as they realized a total cost savings of approx. \$30,000 (not including downtime and maintenance/labor costs) for the period.

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