

BISON® CASE STUDY

 Food & Beverage Market

261 Series SaniMotor Gearmotor

CONTACT BISON



Meat Processing Application

Harsh food processing environments require gearmotors that can endure high pressure water sprays and exposure to caustic cleaning chemicals.

Background

Food processing factories rely on caustic chemicals daily to sanitize their equipment, ensuring a clean environment during food handling operations. Bison® has been designing solutions for such applications for years. Recently, a meat processing equipment manufacturer faced maintenance issues with a competitor's gearmotor installed on a hot-dog loader machine. Bison® stepped in to assess the problem and recommended their 261 Series SaniMotor gearmotor due to its suitability for harsh washdown environments.

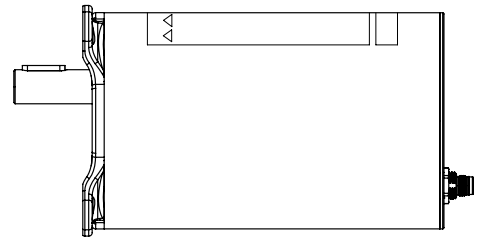
261 Series SaniMotor Gearmotor
Three Phase AC Model



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261 Series SaniMotor Gearmotor



CHALLENGES:

- **Environmental Exposure** – High temperature and high-pressure sprays of water and caustic cleaning chemicals, resulted in premature failure of the existing gearmotor.
- **Voltage Problem** – Underperforming gearmotor created voltage issues, resulted in damage to the machine's circuit boards
- **Maintenance and Costs** – Frequent maintenance issues and increased replacement costs.

SOLUTION:

Bison's 261 Series SaniMotor Washdown Gearmotor

- **Application-Specific Design** – Recommended for its ability to thrive in washdown environments.
- **IP69K Rated** – Ensured durability in high-pressure, high-temperature cleaning conditions.
- **304 Stainless Steel Construction** – Resistant to caustic cleaning chemicals.
- **Comparison** – Outlasted other solutions such as white epoxy paint coating, which can flake off over time.

RESULTS:

- **Seamless Performance** – The 261 Series SaniMotor operated without maintenance issues.
- **Reduced Costs** – Lowered replacement and maintenance costs.
- **Improved Durability** – Enhanced equipment reliability in the harsh washdown environment.

ABOUT BISON

For more than 100 years, Bison®, an AMETEK business, has helped customers differentiate their products by developing robust, flexible and durable motors, blowers and pumps under the brand names – Bison® Gear Motors, Lamb® Vacuum Motors, Nautilair® Combustion Blowers, Prestolite Motors DC Brushed Motors, ROTRON® Regenerative Blowers, ROTRON® Transportation and Windjammer® Brushless Blowers.

Bison® engineers thrive on technical challenges and provide customers with collaborative, customizable and optimized fluid-moving, fractional and integral horsepower solutions. Bison® has worldwide sales representative support, research facilities and manufacturing facilities in the United States, China, and Mexico. The company is headquartered in Kent, Ohio.

Bison® is a business of AMETEK – a leading global provider of industrial technology solutions serving a diverse set of attractive niche markets with annual sales over \$6.0 billion.