

## Bison Gear & Engineering Features:

# SANIMotor<sup>®</sup> Thrives Over Competition in Meat Processing Application

Food processing factories use caustic chemicals on a daily basis to sterilize their equipment. This ensures a completely clean environment while their food handling equipment is running. Bison Gear and Engineering has been designing solutions for these types of applications for years. Recently, a meat processing equipment manufacturer encountered maintenance issues with a competitor's gearmotor installed on a hot-dog loader machine. Bison came in to assess the problem and recommended their SANIMotor<sup>®</sup> gearmotor due to its viability in harsh washdown environments.

**BACKGROUND:** The previously installed gearmotor caused two primary issues for the hot-dog loader – both attributed to the product not being able to withstand the extreme conditions created during the washdown process. High temperature and high pressure sprays of water and caustic cleaning chemicals utilized in the washdown process resulted in the gearmotor failing prematurely. Another issue caused by the washdown process was the under-performing gearmotor creating voltage problems that ended up damaging the machines' circuit boards, causing further maintenance issues and increasing replacement costs. Attempts to fix the problem yielded no results, so the manufacturer decided to find another solution.

**SOLUTION:** After reviewing the application, Bison engineers recommended replacing the failing gearmotor with their parallel shaft SANIMotor<sup>®</sup> gearmotor. The SANIMotor<sup>®</sup> is specifically designed for this type of application. The one-piece system is IP69K rated, allowing it to thrive in a wash-down environment. Completely encased in 304 stainless steel, cleaning chemicals have no effect on the integrity of the motor shell. The internal components are sealed in a thermally conductive epoxy resin to eliminate any voltage or performance concerns. When compared with other washdown solutions, such as white epoxy paint coating, the SANIMotor<sup>®</sup> proved to be the longer lasting solution. Epoxy paint flakes off over time, whereas stainless steel does not wear in this environment.

**RESULTS:** Once the SANIMotor<sup>®</sup> was installed on the hot-dog loader, the gearmotor performed with no maintenance issues. Replacement costs went down, and the equipment is now able to withstand the washdown environment where it was designed to operate.



### Industry Reference:

NAICS CODE: 333241

SIC CODE: 35560000

3850 Ohio Ave • St. Charles, IL 60174

1-800-AT-BISON

[www.bisongear.com](http://www.bisongear.com)

# BISON

Gear & Engineering Corp.

We make your products go.<sup>®</sup>