

# INNOVATION

**SPOTLIGHT** from the brands of Altra Industrial Motion Corp.



## BAUER GEAR MOTOR STAINLESS STEEL GEAR DRIVES ENHANCE FOOD SAFETY

Due to the special hygiene demands of the food & beverage industry, leading food processing OEMs, require powertrain components, including gear motors, that can withstand routine washdown regimes and guarantee clean operation without risk of contamination. At the same time, end users are continuing to place great emphasis on the energy efficiency of their processing equipment.

PMSM synchronous motors offer considerably improved efficiency when compared to induction motors, even under partial load conditions. In real-life application scenarios they have been shown to offer energy savings of over 40% when compared to a standard, asynchronous motor. Bauer is at the forefront of this technology and is committed to developing energy efficient gear motor solutions to meet market demands.

### NEXT GENERATION STAINLESS STEEL SOLUTIONS

For decades, Bauer has been providing industry-leading gear motor solutions, including aseptic drives, for use in washdown applications. However, recent regulation changes, along with consumer-driven demands for improved food safety, have increased the challenges faced by OEMs.

In response, the engineers at Bauer have developed stainless steel gear motors that provide exceptional washdown resistance and energy efficiency for use in hygiene-sensitive areas.



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## **THE WORLD'S FIRST MODULAR, STAINLESS STEEL, IE4 GEARED MOTOR**

Building on the tried and tested Bauer permanent magnetic synchronous motor (PMSM) and aseptic drive technologies, Bauer's new stainless steel models combine the benefits of both and are ideal for use in hygiene-critical applications where high footfall and frequent washdowns could damage specialized coatings.



The IE4 super premium efficiency stainless steel geared motor is designed with surfaces which slope by at least 3° to prevent the formation of dirt deposits and allow the run-off of cleaning agents and water. Stainless steel construction eliminates the risk of the hygiene rating becoming compromised in the event of an impact or over prolonged periods of use in heavy washdown environments.

The new IE4 BG50 gear motor features a robust, corrosion-resistant stainless steel housing with thermistors and ISO-class F as standard. Other features include a stainless steel round connector and enclosures rated for IP67 and IP 69K.

## **WORLD'S LEADING FOOD PROCESSING OEMS RELY ON BAUER GEAR MOTOR**

The leading manufacturers of food processing equipment utilize Bauer gear motors on machines that perform a wide range of operations including aseptic filling, freezing and chilling, fruit and vegetable processing, labeling, sterilization, coating and frying.

### **IDEAL SOLUTIONS FOR SPIRAL FREEZERS**

A food processing OEM was experiencing repeated failures of competitive gear motors used on their large spiral freezers. Bauer was contacted to provide a more reliable, maintenance-free solution.

After careful review of the customer's machine, Bauer application engineers recommended utilizing new stainless steel BG50 gear motors for the machine's main rotational drive. Bauer BK17 stainless steel gear motors were specified for use on the freezer's auxiliary drives.

Bauer stainless steel gear motors increase reliability and quality by eliminating downtime, change time and product deterioration during downtime.