

# PROBLEM & SOLUTION

- **Industry:** Food & Beverage
- **Application:** Animal Rendering (Non-Meat)
- **Result:** Doubled Gearbox Life and Eliminated Belts
- **Products Used:** Bevel BuddyBox<sup>®</sup> 4 Screw Conveyor



## PROBLEM

This rendering customer had challenges with **sliding** and **breaking belts** due to **overloads** in the twin-screw rendering application.

The **belts** caused **excessive external loading** on the motor and the gearbox—**reducing** the operational life of the units.

**Breaking belts** are a **safety hazard** and can potentially cause **harm** to personnel.

## SOLUTION

Our Bevel BuddyBox<sup>®</sup> 4 units have a **NEMA frame input** for **versatile motor attachment**. With the NEMA adapter design, the **belts are eliminated** and the motors have **no external loading** due to the coupling connection of the adapter. Our technical engineers added external piping and an oil expansion chamber to ensure the input bearing would be **well-lubricated** without an extensive pressure build. This addition will extend the life of the **oil seals**.

We also added a **screw conveyor adapter** to make it **easy to mount** the unit to the conveyor.