

Stainless Steel Gen2 SS700 Speed Reducer

POULTRY PROCESSING
TRANSFER CONVEYOR



PROBLEM

A major poultry processing plant in North Carolina faced a difficult challenge on its toughest application – a solid 90-degree transfer. As the conveyor separated whole birds from the main line, birds would bunch up at the 90-degree turn, drastically increasing the torque demand on the conveyor's motor and speed reducer.

Due to direct contact between the partially processed birds and the transfer line, the entire conveyor was also subject to rigorous washdown, adding even more strain. As a result of the high torque demands and frequent washdowns, the conveyor's existing competitor speed reducer began to fail every other month.

SOLUTION

In December of 2022, the facility maintenance manager contacted Boston Gear™ for help in solving the problem. To meet the challenging application, Boston Gear replaced the plant's failing speed reducer with the SS700 Gen2. The Gen2 (2nd Generation) of Boston Gear's SS700 series speed reducers package the fit-form-function of the original IP69K Rated stainless steel speed reducers with several key upgrades and improvements.

Today, the customer reports zero issues with the new speed reducer. The Gen2 maintains its pristine and corrosion-free exterior. In just six months, the Gen2 increased operating life by 300%. The new design also incorporates features for quick and easy installation and maintenance.

The Gen2 is in full production for select sizes and readily available for immediate delivery.



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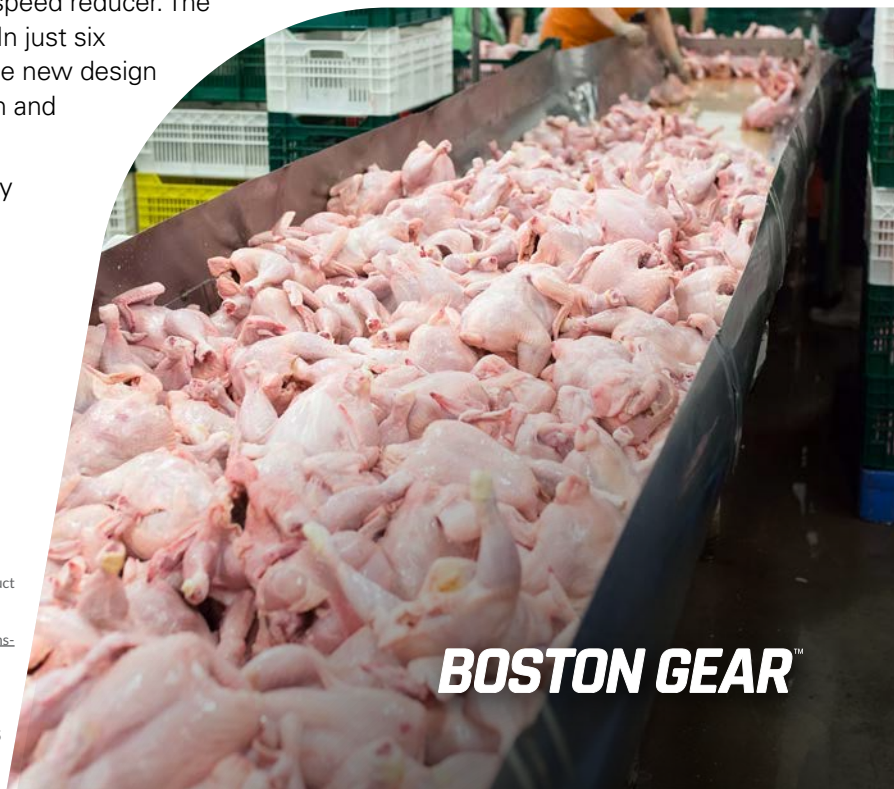
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HIGHLIGHTS

- Improved **Domed Crown™ Curved Design** eliminates virtually all pooling of fluids during washdown
- New **Field-Installable Shaft Covers** protect against potential food traps and eliminate safety risks associated with rotating elements
- **Tapered Bushing Option** eliminates the need for troublesome keys/keyways on the output shaft
- **Larger Output Shaft Bore** sizes enable the selection of smaller speed reducers



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