

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.

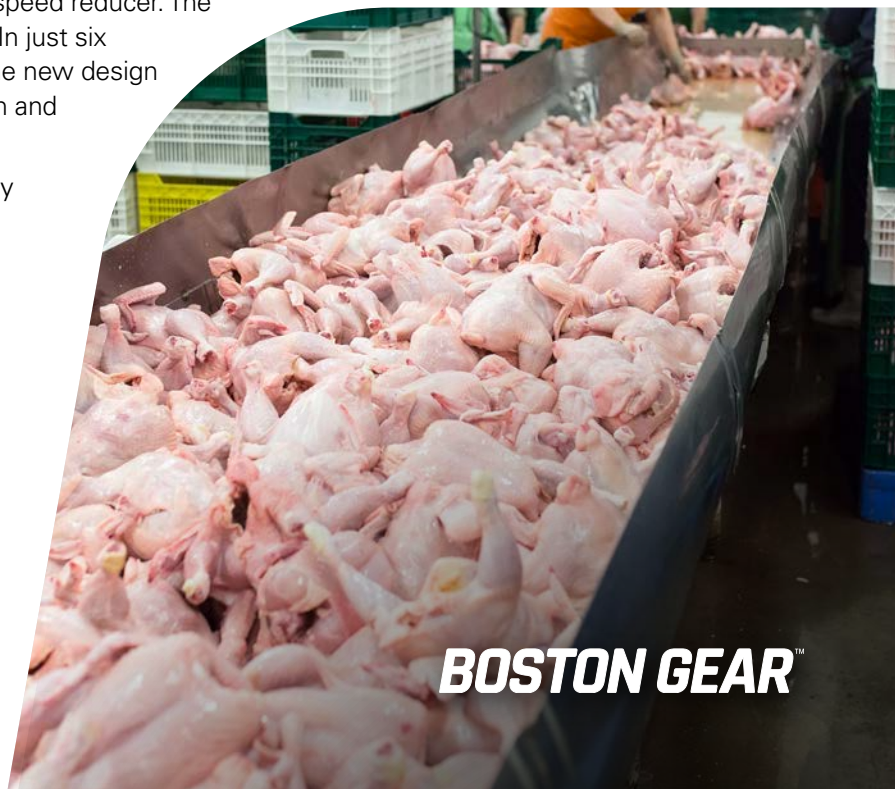
The Gen2 is in full production for select sizes and readily available for immediate delivery.

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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Stainless Steel
Reducers



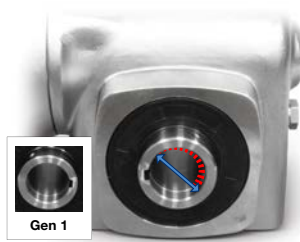
BOSTON GEAR™

8 REASONS TO UPGRADE TO THE BOSTON GEAR GEN2 SS700 STAINLESS STEEL WORM GEAR BOX



Domed Crown™ Curved Design

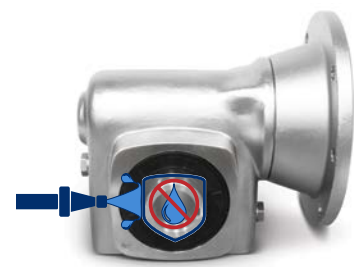
Reduces fluid pooling and improves chemical runoff, lowering the risk of pathogen formation and ensuring food processing operation remains safe and compliant.



Gen 2

Larger Output Shaft Bore

Allow for the selection of a smaller reducer, especially in low-torque or low-duty applications, if the shaft size is dictating the selection, providing the opportunity to downsize product selection (weight, envelope size, cost) and standardize conveyors throughout the facility.



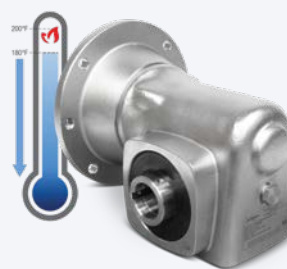
IP69K Rated Stainless Steel Enclosures

Compliant with IEC 60529 and can withstand washdown nozzle pressure of up to 1450psi as close as 4 inches, making the SS700 Gen 2 Series highly resistant to water ingress during high-pressure washdown.



Field-Installed Shaft Covers

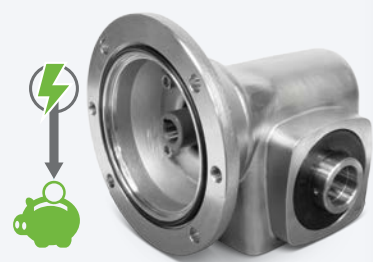
Protect against potential food traps and rotating elements that pose hazards to operator safety. Compliant with both FSMA and OSHA regulations, installing these covers ensures your product meets the highest safety standards.



Lowest Operating Temperatures

Greater ability to maintain required temperature ranges within processing area

- Reduced risk of operator injury due to incidental skin contact
- Lower risk of oil leaks due to minimized internal pressure build-up



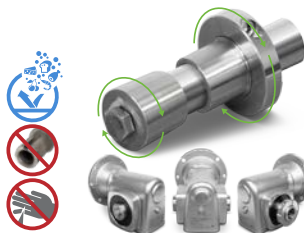
High Operating Efficiencies

Rigorous testing against competitive models proves that our speed reducer uses less electricity to operate food processing equipment, which generates cost savings over time.



NSF Certification

Demands a hygienic design to meet the most stringent food-safety requirements. Boston Gear speed reducers with NSF laser marking invoke customer confidence to meet or surpass USDA or any other food regulatory guidelines.



Tapered Bushing Option

Eliminates the need for an output keyway by using a clamping force to transmit torque resulting in:

- Elimination of keyway food traps, removing opportunity for pathogen formation
- Mitigation of customer shaft damage costs from galling damage that can occur over time
- Removal of sharp edge safety hazards

**SCAN TO BUILD A
GEN2 STAINLESS STEEL
SPEED REDUCER TO YOUR
APPLICATION SPECS:**



Regal Rexnord

Contact us: 1-800-816-5608

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