



## Product

## SS700 Reducers with High-Pressure Seal Option

## Application

## Poultry Processing Lines

## Highlights

- New high-pressure seal option withstands intense washdowns
- 316 Stainless Steel housing, motor flange and carrier
- World-class worm technology with efficiencies that can exceed 90%
- Revolutionary smooth exterior prevents foreign matter adherence and fluid accumulation
- Double-lipped shaft seals
- Nameplate information laser marked directly onto main housing
- NSF International (formerly National Sanitation Foundation) Certified

For many in the chicken processing industry the Boston Gear SS700 stainless steel worm gearbox has become a reliable solution for installations where washdown challenges exist. The SS700 is designed to enhance the sanitation efforts of customers through the elimination of flat surfaces and the elimination of holes or labels where moisture and bacteria can gather all within an efficient stainless steel design that includes a stainless axial face seal and food grade lubrication. Alone in the gearbox industry, the Boston Gear SS700 carries NSF International (formerly National Sanitation Foundation) certification.

For one leading chicken processing plant however, this was not quite enough. The cleaning and sanitizing process at their facilities involved pressurized washdowns that far exceeded normal industry washdown conditions. The high pressures they used would require special measures to protect the output shaft seals. The engineering team at Boston Gear stepped up to the challenge and developed a high-pressure seal option that could withstand the rigors of the intense washdowns performed at this facility.

The new seal option incorporates an additional stainless exterior seal for rigidity, but also has a housing modification that maintains the seal joint as well as preserving the smooth exterior of the gearbox. This stainless cover rotates with the shaft while providing protection to the double-lipped seal in the unit. This added protection has withstood pressures up to 1000 PSI for over 200 hours without allowing water to damage the integrity of the oil. The new gearboxes have been installed and are successfully operating at their facilities. By being responsive to the voice of their customer, Boston Gear has been able to increase productivity by reducing downtime in an industry where production must keep pace with an 'insatiable' demand.

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