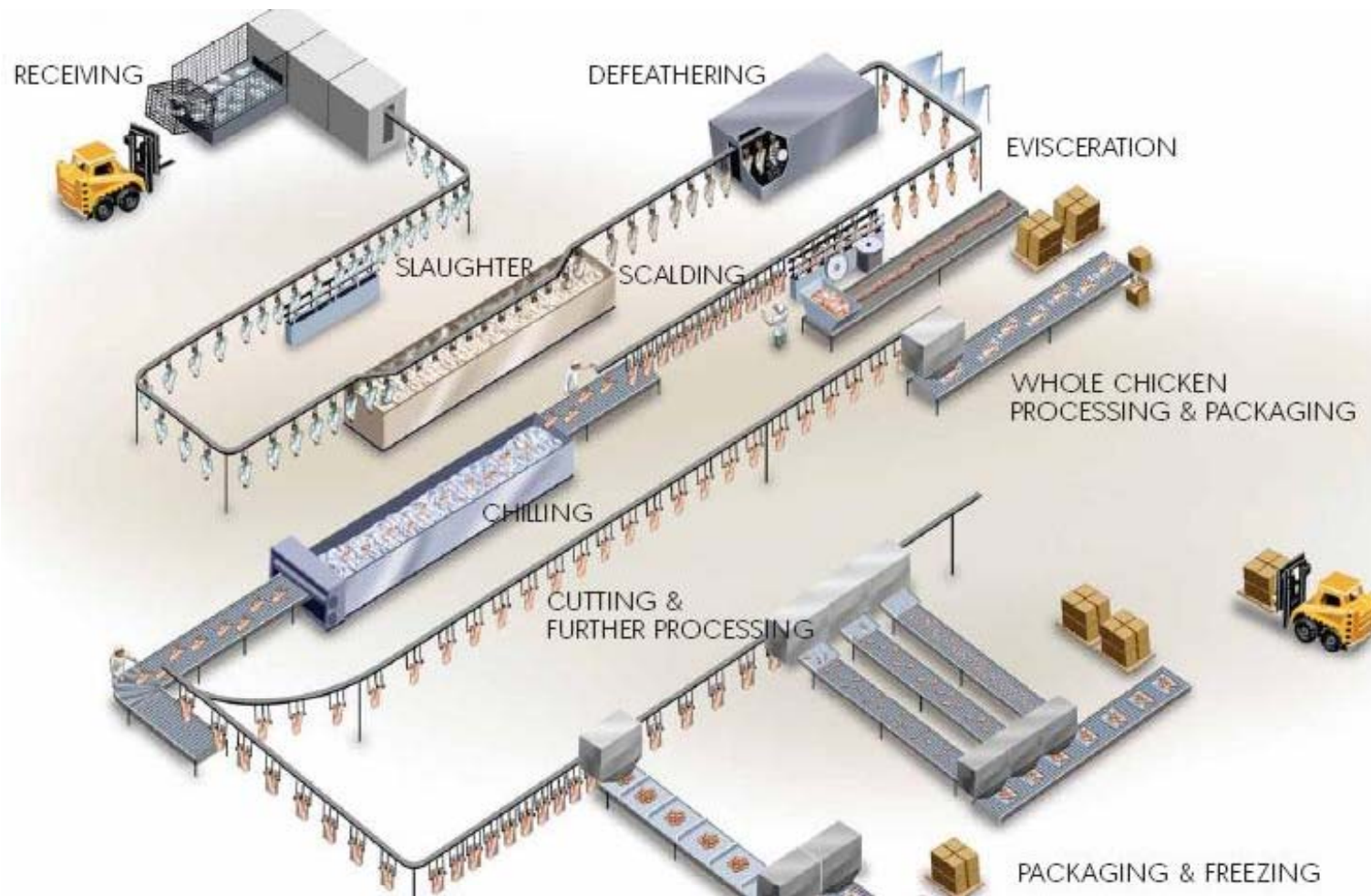


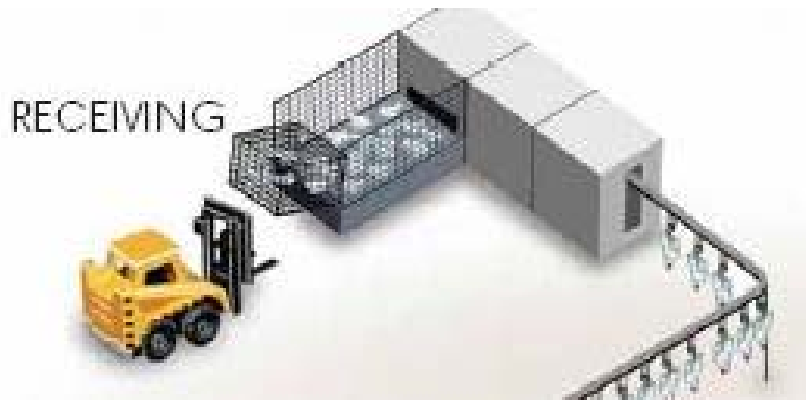
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Receiving

- ❑ The receiving operation is a largely automated process in most poultry plants. After being removed from cages, a conveyor is used to transport the birds to the live hang area. The broilers are hung on an overhead chain conveyor which is powered by a low speed offset parallel gear motor. This chain conveyor conveys the broiler through the initial stages of the poultry process
- ❑ Bearing Applications– Non washdown mounted ball and roller bearings
- ❑ Items to consider – This application is subjected to shock loads which require rugged cast iron construction pillow block and 4 bolt flanged bearings. Corrosion resistant bearings are usually not required at this stage of the process.



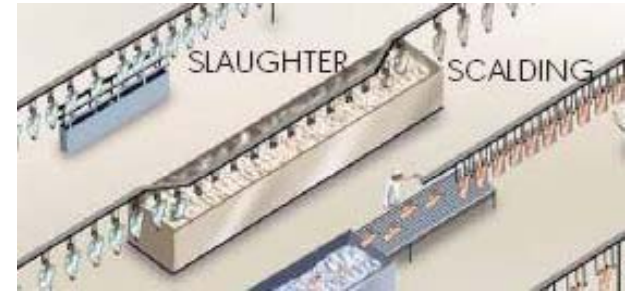
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Slaughter

- ❑ In preparation for slaughter, each bird is exposed to an electrical charge and are conveyed to the slaughter area. The circular blade used for slaughter is powered by an electric or hydraulic washdown duty motor.
- ❑ Bearing Applications – Washdown or corrosion resistant bearings
- ❑ Items to consider – These bearings are subjected to high ambient temperatures and humidity and heavy chemical washdown cycles. Housing end covers and high performance synthetic grease are recommended



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Scalding

- ❑ After bleeding, birds are scalded by immersion in a scald tank for 1.5 to 3.5 minutes. Scalding facilitates feather removal. After scalding, the birds are conveyed quickly to the defeathering process.
- ❑ Bearing Applications – Mounted roller bearings, tapered or spherical



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Chilling

- ❑ The chilling operation decreases the carcass temperature to 40 degrees F within 4 hours of slaughter and inhibits microbial spoilage. The chilling process consists of a large rotating drum that moves the broilers through chilled water. The drum is typically chain driven by high torque, low speed gear motors. The drums are supported by mounted roller bearings.
- ❑ Bearing Applications- flanged roller bearings, either tapered or spherical
- ❑ Items to consider- These bearings are subjected to slow speeds and high loads. 100% grease fill is required along with providing bearings that can handle high thrust loads similar to a screw conveyor.



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PROCESS

	Receiving	Slaughter	Scalding	Chilling
Bearing Type (or consideration)	Mounted Ball Bearings			
	Mounted Roller Bearings			
	Washdown Considerations			
	Unmounted Bearings			

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BSA wishes to especially thank Jeffrey Moore of Baldor-Dodge-Reliance for his help in preparing this Industry Brief.