

Rendering



Millions of tons of animal by-products are produced in the U.S. each year in the agricultural and animal industries. The rendering process allows for the recycling of animal harvesting wastes that would otherwise be disposed of in landfills.

Rendering transforms waste by-products from the animal industry into stable, valuable and safe-to-use materials such as bone meal, blood meal, and feather meal, which can be used as organic fertilizer for plants or as a nutritional supplement for animals.

Businesses such as JBS, Cargill, and Tyson use Uzelac Industries rotary dryers in the rendering process to remove moisture from the raw material and help produce these end products. Carrying on the tradition of the Duske Dryer, Uzelac Industries is the leading provider of rotary dryers to the rendering industry in the U.S.

For rendering Uzelac has dried:

- Cattle blood
- Pork blood
- Cattle meat and bone meal
- Fish meal
- Feather meal
- Egg shell
- Paunch manure

JBS USA, LLC



Project Location:	Project Completion Date:	System Size:	Finished Product:
Grand Island, Nebraska	May 2012	TPD-3500BB	Dried Cattle Blood <small>(Animal Feed Supplement)</small>

JBS® USA is a leading processor of beef and pork in the U.S. and a leading processor of beef in Canada. They are also a majority shareholder of Pilgrim's Pride Corporation, the second largest poultry company in the U.S., with operations in the U.S. and Mexico. JBS USA represents the North American arm of JBS® S.A., the world's leading animal protein processor with more than 240,000 team members worldwide, more than 300 production units and export customers in more than 150 countries. The company also enjoys a strategic relationship with JBS Australia, the largest processor of beef and lamb and one of the largest livestock feeders in Australia.

This Uzelac Industries Drying System consists of a 10mm BTU Burner supplied by Maxon, a Uzelac Industries Furnace, a Uzelac Industries Triple Pass drum, 7'8" diameter X 23' long, with the Uzelac Industries exclusive BB (Big Belly) feature, expanding the outer cylinder, adding capacity in a smaller footprint. The system utilizes a 60 HP Greenheck fan. The product out feed consists of an Uzelac Industries product collector and high efficiency dust cyclone. Uzelac Industries also designed and provided a raw blood coagulator. Systems Controls designed and provided by Uzelac Industries are Allen Bradley Panel View PLC controls. The system is designed to process 10 Tons per hour of raw blood at 84% moisture content and dry it to 10% moisture content. The system is primarily stainless steel construction and shipped pre-assembled and pre-wired on a painted hot rolled steel structural frame.

