



Custom ducting connector

PROCESS

As the preferred provider for fertilizer production equipment, FEECO was commissioned to engineer and manufacture a custom, stainless steel rotary dryer with combustion chamber for use in the production of Ammonium Sulfate (AS).

The 8' (2.4m) diameter x 40' (12.2m) long dryer included flights (material lifters) and was designed to provide optimum drying efficiency and offer a reliable, long-term industrial drying solution in a demanding setting.

This project presented a challenge in terms of limited available space for the dryer; FEECO had to engineer a system that would fit perfectly into the allotted space, while still providing maximum drying impact.

As a result of the space limitations, the combustion chamber for the dryer was located on a different floor. FEECO engineered a custom duct (shown above left) to connect the dryer and combustion chamber.

The specially designed, stainless steel combustion chamber prevents the burner flame from coming into direct contact with the product, avoiding product breakdown, providing uniform drying, and lowering the overall drying cost due to a more complete combustion of the fuel.

PROJECT SPECS

Customer:
Proprietary

Equipment Supplied:
Rotary Dryer with Combustion Chamber

Project Location:
Virginia, USA

Industry:
Fertilizer

Material:
Ammonium Sulfate

Project Engineer:
FEECO International, Inc.