



PROCESS

Like many large-scale farms, Matsche Farms, a near 5,000-head dairy farm, had made the switch from more traditional types of bedding to recycled manure solids (coarse fiber).

Recycled manure solids are recovered after manure is flushed or scraped from the barns. However, before the material can be used as a bedding, it must be sterilized to reduce bacteria and pathogens.

While the farm had a composting setup in place, they found they still needed to add lime to the bedding in order to sterilize it thoroughly. In short, they needed a better solution, and for this, they turned to FEECO.

Through testing in the FEECO Innovation Center, we were able to confirm the feasibility of sterilizing the farm's bedding through drying. Once testing was complete, we used the data gathered during testing to engineer a custom rotary dryer.

The rotary dryer dries the recycled manure solids in order to reduce the moisture content of the material, as well as reduce the bacteria and pathogen content down to a safe level. The result is a dried manure solids (DMS) product that can be effectively used as bedding.

PROJECT SPECS

Customer:

Matsche Farms

Equipment Supplied:

5 1/2' x 30' (1.7 x 9.1m) Rotary Dryer

Project Location:

Biramwood, WI, USA

Industry:

Agriculture/Dairy

Material:

Recycled Manure Solids/
Dried Manure Solids

Project Engineer:

FEECO International, Inc.