Two BioReactors are composting several waste streams at an integrated poultry processing plant. Each BioReactor is 10' x 60' (3m x 18m).

**BioReactor Composting System** 

Poultry Slaughterhouse Sludge

Composting multiple organic waste streams separately or mixed is no big deal. Doing so with a very small footprint and in just 6-7 days - now there is something to talk about! This is all possible with the BioReactor Composting Technology by XACT Systems.



This installation is located in Brazil and is operating with 2 BioReactors in order to quickly compost multiple waste streams. The waste streams include slaughterhouse sludge such as DAF, hatchery waste, poultry litter, and poultry mortalities The waste is pre-blended prior to loading via conveyor into the composters using a large vertical screw mixer. When the composted material is ready to be discharged, the discharge doors open and the compost is loaded onto a conveyor. After which, the compost is placed in windrows for final curing. In the first phase, the compost will be sold for agricultural use; ultimately in the second phase, the compost will be mixed with minerals to produce an "organo-mineral" fertilizer. As you can see, these vessels are housed under a single roof. The land requirement for this compost is pretty small compared to other methods of composting which would require a large acreage to compost the same amount of waste.

## One Acre Composting Facility with the BioReactor Composting System and Curing Area.

**Small Land Requirement:** Total: 1 acre (4783 yd2 or 4000 m2). **Feedstocks:** 15 ton of Slaughterhouse sludge etc. + 7 ton of wood chips/agricultural husks = 22 tons per day

**Heat:** The continual rotation of the BioReactor controls the temperatures of the composting process in optimal range.

> **Oxygen:** ALL the tumbling waste material is exposed to the oxygen in the air at all times, so decomposition process is completely aerobic.

Capacity: The BioReactors can process large volumes of waste per day...in this case each vessel is processing 22 tons per day. Curing Period: 3 to 4 weeks

SYSTEMS

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