

DAIRY FARM WITH 1,700 COWS CONVERTS DAIRY MANURE INTO COMPOST AND USES IT FOR BEDDING



Cows rest on the compost bedding because it provides exceptional comfort.

XACT'S BIO-REACTOR

The XACT BioReactor on this dairy operation is 10' diameter by 60' long. It has to turn 45 to 50 tons of dewatered cow manure 240 times per day, 365 days per year. It had better be built strong!

After taking a look at the robust mechanical characteristics of the XACT BioReactor drum and the heavy duty drive system, this dairy operation was confident in the ability of the XACT system to handle the staggering weights of waste material to be processed daily.

Dewatered cow manure is fed into the vessel by a conveyor. Because the infeed opening is located in the upper left quadrant of the stationary infeed end, the BioReactor can be filled to **70% capacity**. Remarkably, a 7.5 hp variable speed drive turns the BioReactor and its load. The gear and pinion provides smooth, steady and reliable rotation.

After a 4-day retention period in the vessel, the discharged compost is taken back to the barn to used as bedding for the herd. Upon discharge the compost is pathogen free, weed seed free, insect larvae free, and odorless. At this point the compost is about 50% moisture, and therefore as it gets blown into the stalls there is minimal airborne dust. Most importantly, the cows love it as it provides exceptional comfort.



XACT Systems Inc.
Box 430, 340 Sidney St.
Trenton, ON, K8V 5R6

Toll Free: 800-920-0630

Tel: 613-394-1922

Fax: 613-394-4311

info@xactsystemscomposting.com

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