



TRIDENT

Separators

Recover • Restore • Reuse

3046 McMillan Road Abbotsford, B.C. Canada V2S 6A8
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Manure Systems Inc.

Manure Systems Inc. focuses on the advancement of Manure Management technologies for agriculture. Creating processing systems for Sand-Laden Manure (SLM) systems used by the dairy industry, **Manure Systems Inc.** combines practicality and proven technology to produce the most effective separation equipment for processing Sand-Laden Manure in the world. Years of research and field testing in cooperation with industry leaders, manure management professionals and dairy producers has led to the development of the Trident separator systems.

Trident Manure Separator: is the heart of the Trident Sand System. The rotary screen ensures excellent fiber capture and exceptional wear resistance. The Trident Posi-Trac sprocket & ring gear system eliminates slipping, delivering positive turning power to the screen. It delivers maximum torque for the vigorous blending and mixing that is required to "Wash Out" the sand from the slurry. Cleaning the screen is easy with our two line automated CIP system. One line for fresh water the other for chemical applications ensures constant material processing rates. Long lasting, dependable components guarantee trouble free operation for many years.



Trident Sand Recovery

Three Steps to Success - Conditioning, Fiber Removal, Velocity Settling. Designed specifically to recover Sand from Sand-Laden Manure to recycle as bedding The Trident Sand Recovery System is the proven solution. The Sand-Laden Manure is processed in an automated closed loop system using stabilized recycled lagoon water for processing; no fresh water is required. The recovered bedding sand has been restored to its original condition, stacked and is ready for reuse back in the barn.

The coarse fiber and sand is separated by the **Trident Manure Separator** using a unique washing process. The fiber free sand and effluent mixture is discharged from the Trident into the velocity settling channels and processing lanes. There the sand undergoes a purge and settling process. The sand separates from the mixture; settling to the bottom of the lanes and channels where it is removed via conventional bucket loaders delivering clean dewatered sand to a stacking pad. Once recovered and restored the sand is ready for reuse. The sand free effluent along with any fine organic material that remains in the liquid flows out of the lanes to storage or further treatment.





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