

Industry's Most Advanced Technology.
Experience, Not Experiments.



NUTRIENT RECOVERY

Technology for Modern Agriculture



IT'S NOT MANURE ANYMORE™

1.604.330.2500 | 1.800.799.3740 | info@tridentprocesses.com | www.tridentprocesses.com

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Many jurisdictions have taken steps to limit what producers can do with their manure. The Trident Nutrient Recovery Technology addresses this by transforming the livestock waste into reusable components, that are easy to manage and create solid revenue opportunities.

Effectively managing nutrients from animal manure serves the environment well and provides economic opportunities for the producers.

The Trident system is based on a modular design and fully scalable, offering a nutrient recovery solution to every size operation. It can be integrated with or without anaerobic digester technology. What is referred to as Cold Process is a very innovative aspect of Trident's technology, as it allows the processing of undigested manure.

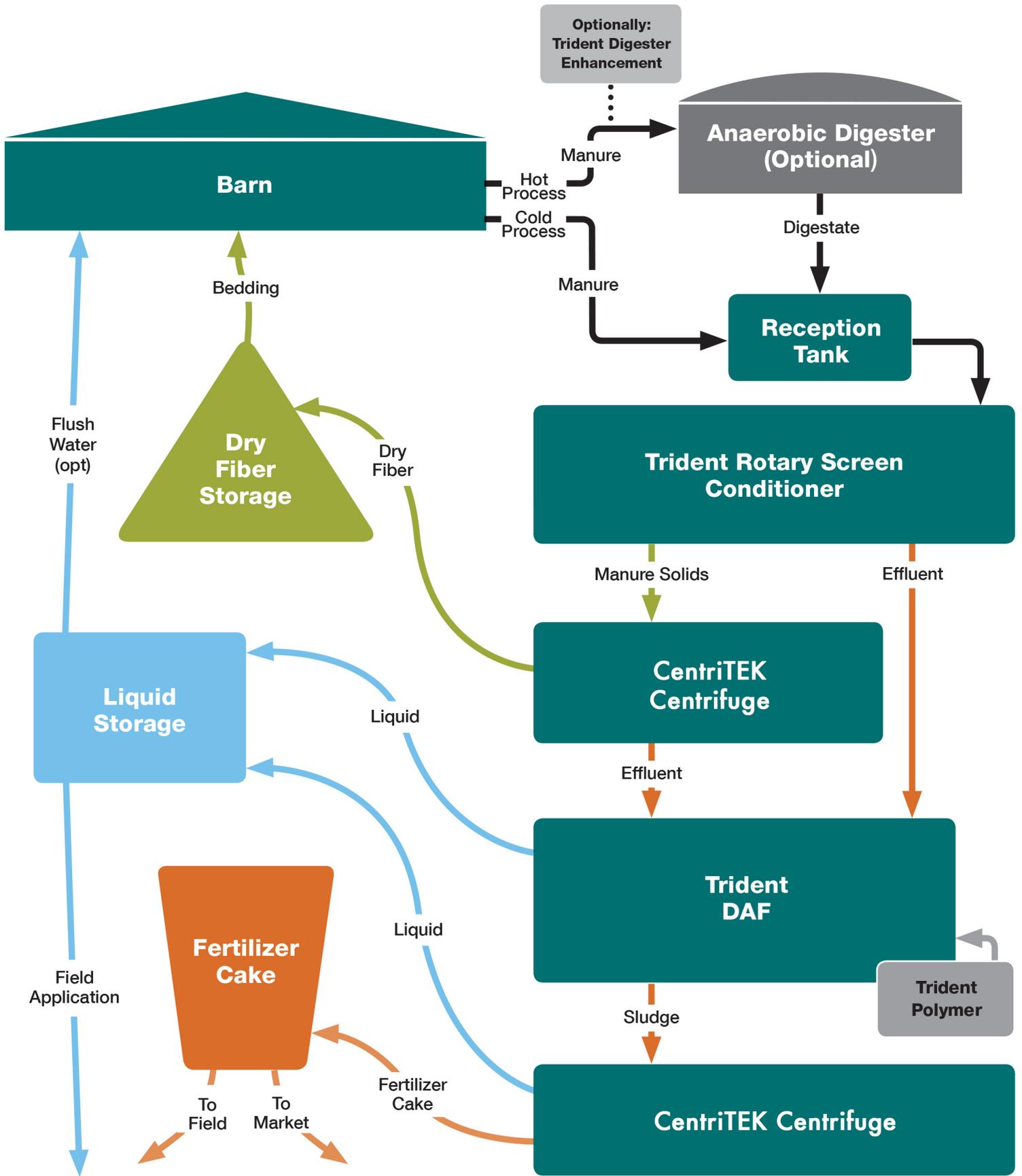
The Trident Nutrient Recovery System provides a comprehensive value-driven solution that is easy to manage and operate. The proprietary multi-step process incorporates mechanical and chemical components, specifically designed for agricultural applications.

Engineered process design, robust equipment and PLC automation result in efficient performance. Incorporating farm ready equipment and components means low capital, operating and maintenance costs. The system automation allows continuous monitoring and remote web-based control of individual components.

Once manure goes through the Trident Nutrient Recovery System, it is processed into three valuable components:

- Dry Fiber - for premium bedding
- Clean Water - for irrigation or operational use
- Solid Nutrient Cake - for use as fertilizer

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Trident Nutrient Management System

Benefits

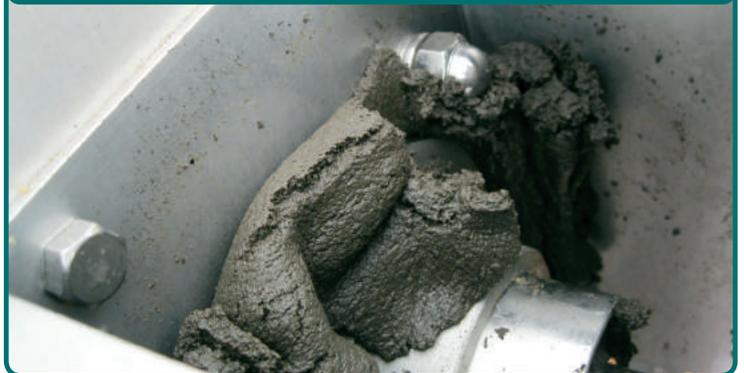
- Total nutrient management
- Capture fiber for 100% of bedding needs
- Recover NPK nutrients: 55%N, 85%P and 20%K of original feedstock
- Reduce haulage up to 80%
- Enable farm growth on existing land base
- Increase crop yield
- Meet CNMP requirements
- Complete automation and remote monitoring

Nutrient Recovery Products

Dry Fiber Bedding



Nutrient Rich Solids



Nutrient Depleted Effluent



The TRIDENT Technology

The Process: Simply Better



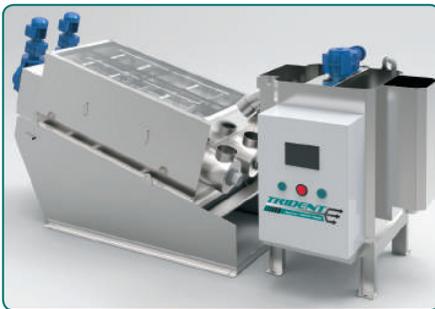
Trident Rotary Screen Conditioner cleanses the manure and extracts clean coarse fiber for conversion into recycled bedding.



The CentriTEK Centrifuge dewateres the coarse fiber to a dry matter, ready for re-use as dry bedding material.



The Trident DAF Tank coagulates the fine solids in the remaining effluent creating nutrient sludge that contains up to 55%(N), 85%(P) and 20%(K) of original feedstock.



The Trident MD Press processes the sludge into a nutrient rich cake that is easy to land apply, transport and store, or ready for granulation.



The PLC Control System allows for automated operation, continuous monitoring and remote adjustments and diagnostics.



The System Integration Interface
Trident technology is fully scaleable (250 - 15,000 cows) and can be implemented on farms with or without digester.

The Result: IT'S NOT MANURE ANYMORE™

Fiber Bedding



The recovered coarse fibers are excellent bedding material. The Fiber production covers up to 100% of the farm's bedding requirements.

Effluent Water



The nutrient depleted liquid (tea water) has less than 1.5% solids content, ideal for pivot irrigation or operational flush water.

Nutrient Cake



Trident's Nutrient Recovery System captures 55%(N), 85%(P) and 20%(K) of the feedstock nutrients. This fertilizer rich cake is ideal for land application or further granulation.

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FERTILIZER



BEDDING



PERFORMANCE



WATER

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info@tridentprocesses.com
www.tridentprocesses.com

CENTRITEK | **CCS DAIRY**
508 Stone Road
Benicia, CA 94510
sales@centritek.com
centritek.com **1-866-769-3900**