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

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 system integration interface Trident technology is fully scaleable (250 - 15,000 cows) and can be implemented on farms with or without digester.

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

The recovered coarse fiber is excellent bedding material. The fiber production covers up to 100% of the farm's bedding requirements.

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

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

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Fiber Bedding
Effluent Water
Nutrient Cake
FERTILIZER
BEDDING
WATER

The Result: IT’S NOT MANURE ANYMORE™
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 Technology 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

IT’S NOT MANURE ANYMORE™

**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

**Dry Fiber Bedding**

**Nutrient Rich Solids**

**Nutrient Depleted Effluent**
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IT’S NOT MANURE ANYMORE™

**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 hauling 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

**Components**

- Barn
- Flushing Water (cold)
- Manure
- Tractor
- Seeding
- Dry Fiber Bedding
- Manure Solids
- Effluent
- Trident Rotary Screen
- Tank
- Cold Process
- Hot Process
- Reception Tank
- Anaerobic Digester (Optional)
- Trident Screw Press
- Trident DAF
- Trident MD Press
- Trident Rotary Screen
- Condenser
- DAF
- Screw Press
- Vortex
- Polymer
- Field Application
- Market
- Liquid
- Storage
- Fertilizer Cake
- Trident Polymer
- Filter
Trident Rotary Screen Conditioner cleanses the manure and extracts clean coarse fiber for conversion into recycled bedding.

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.

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The TRIDENT Technology

The Process: Simply Better

The Result: IT'S NOT MANURE ANYMORE™

Fiber Bedding

Effluent Water

Nutrient Cake

FERTILIZER

BEDDING

WATER

The recovered coarse fiber can be reused as bedding material. The fiber production covers up to 100% of the farm bedding requirements.

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

Trident's Nutrient Recovery System captures up to 85% (N), 80% (P) and 50% of the feedstock nutrients. This fertilizer rich cake is ideal for land application or further granulation.

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Distributor/Dealer

Industry’s Most Advanced Technology. Experience, Not Experiments.
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The PLC Control System allows for automated operation, continuous monitoring, and remote adjustments and diagnostics.

TRIDENT Technology—The Process: Simply Better

The Trident Screw Press dewaters the coarse fiber to a targeted 30% dry matter, ready for re-use as dry bedding material.

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

Fiber Bedding

The recovered coarse fiber cake is excellent bedding material. The fiber production covers up to 100% of the farm bedding requirement.

Effluent Water

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

Nutrient Cake

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

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