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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://gea.nt-rt.ru/> || gsg@nt-rt.ru

СИСТЕМЫ УПРАВЛЕНИЯ НАВОЗОМ SLOPESCREEN Технические характеристики



SUSTAINABLE USE OF MANURE AND ITS COMPONENTS.

Manure separation with the GEA SlopeScreen™.

The GEA SlopeScreen™ is a key component to effective manure separation. Dairy manure is a sustainable and valuable resource. When managed properly, it impacts farm profitability and overall operation efficiency. Independently managing the solids and liquids gives the flexibility to determine the best way to use them. The GEA SlopeScreen™ is an excellent tool for liquid recycling and reducing solids manure stream down.

Make the most of liquid and solid fractions.

When separating for water quality, the GEA SlopeScreen™ can remove up to 55% of total solids. This provides additional storage room (estimated to be between 5 and 15%), in the lagoon with minimal effect on the nutrient value of the liquid. Water in the lagoon can then be irrigated or transported to the field for application. The SlopeScreen™ is well suited for flush systems and scraped farms with a power flume. When used in conjunction with a sand lane, customers can expect to reduce the required water addition to effectively separate sand with limited payback times.

When separating for solids, capturing the solids from the primary separation can be easily managed by an integrated XPress™ system. The GEA SlopeScreen™ brings the level of moisture in fiber down to approximately 80%. This is based on performance in optimum conditions. Be aware that performance may vary according to operating conditions, manure type, composition, and other external equipment factors.

We offer:

- Modularity: Equipment configurations based on individual requirements and the parts are interchangeable.
- Throughput: The range of SlopeScreen™ models can handle the manure of up to 300 cows/hour*.
- Adaptability: Screen opening sizes are set to standards that perform in most environments. If different opening sizes are deemed necessary, they can be ordered as required.
- Reliability: Simple design with minimal moving parts for easy maintenance which results in reduced TCO.
- Low power consumption: The SlopeScreen™ requires no electrical horsepower. The SlopeScreen™ XP requires a 1.5hp (1.1kw) motor.
- Longevity: Made entirely of stainless steel and built to last in highly demanding and corrosive environments.

* values given in this document are based on performance in optimum conditions. Be aware that performance may vary according to operating conditions, manure type and its composition and other external equipment factors.

USE GRAVITY TO SEPARATE MANURE WITH LOW SOLID CONTENT.

The wedge wire screen is built to GEA specifications. The screen wires are welded at a specific angle for aggressive contact with fiber resulting in a high-performance process.

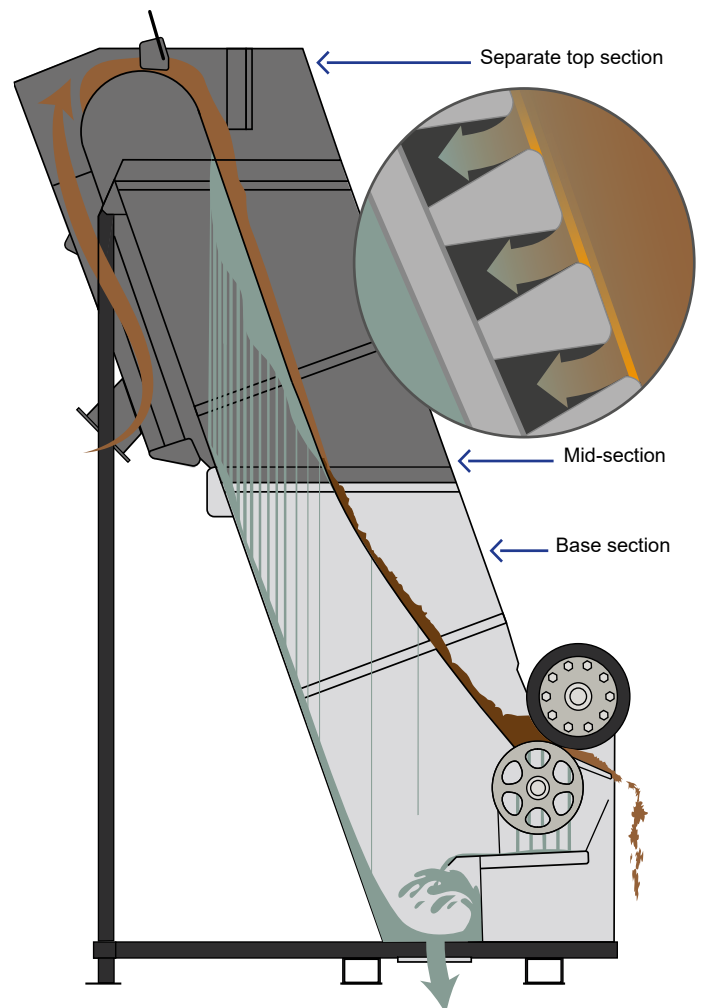
Decades of succesful separation.

Since its introduction, the sloped screen has been a staple in manure separation. The screen is engineered to create a gathering effect on the front. This allows manure solids to bind together and slow down as they transition towards the bottom. As these solid bundles grow, they are retained in place longer which allows further moisture reduction. The GEA specific slope design holds these solids with gravity longer than competitive brands.

In a SlopeScreen™ XP (illustration at right), the solids sliding off the screen gets compressed between a rubber roller and a stainless steel screen roller before it is discharged. Liquid is directed to the 12" (304 mm) gravity discharge for further treatment.

The all stainless steel cabinet is built for longevity and the modular design allows existing customers to upgrade their screen as their needs grow. Using fluid dynamics, the machine inlet and outlet are designed for optimal flow performance.

The GEA model is the only one on the market with removable screen sections. Our hinged system has been favored in the market, it makes removal and installation easy. The independent top section is replaceable with an additional replaceable wear plate at the inlet, making it more user-friendly and extending the service life.



SLOPESCREEN™



1200 to 2000

Maximum manure processing rate
cows/daily



SlopeScreen™ 96
Screen size: 8' x 12' (244 x 732 cm)

The best option to separate manure with low solids content. With a functional and simple design, including no moving parts, there is minimal repair and maintenance required.

The GEA SlopeScreen™ is an excellent tool for liquid recycling and thinning the manure stream down. The progressive wedge wire screen openings provide high performance separation by allowing liquid to pass in the upper portion and captured solids to be dewatered on the bottom portion of the screen.

- Low cost of operation - simple design requiring no power consumption.
- Made entirely of stainless steel and built to last in highly demanding and corrosive environments.
- Side access doors to allow visual inspection and cleaning if needed.



SlopeScreen™ 32
Screen size: 8' x 4' (244 x 122 cm)
Can process the manure from a max. of 800 to 1,200 cows daily.

SlopeScreen™ 64
Screen size: 8' x 8' (244 x 244 cm)
Can process the manure from a max. of 1,200 to 1,500 cows daily.

SLOPESCREEN™ XP



1200 to 2000

Maximum manure processing rate
cows/daily



SlopeScreen™ 96XP
Screen size: 8' x 12' (244 x 732 cm)

SlopeScreen™ XP with an integrated XPress™ go one step further in liquid extraction and provide dryer material.

The SlopeScreen™ XP is well suited for flush systems and alley scraped farms with a power flume. The solid output is dry enough to be stacked and hauled down the road.

- The GEA SlopeScreen™ XP brings the level of moisture in the fiber down to approximately 80%*.
- Low power consumption - 1½ HP (1.1 kW) motor.
- High-quality injection molded rubber roller - Rubber roller made of individually replaceable sections and bolted together. This design has a thick layer of rubber for increased compression effect and uses pressure injection molding technology for a secure bond between the rubber and steel core.
- Air bag pressure system.



SlopeScreen™ 32XP
Screen size: 8' x 4' (244 x 122 cm)
Can process the manure from a max. of
800 to 1,200 cows daily.

SlopeScreen™ 64XP
Screen size: 8' x 8' (244 x 244 cm) Can
process the manure from a max. of
1,200 to 1,500 cows daily.

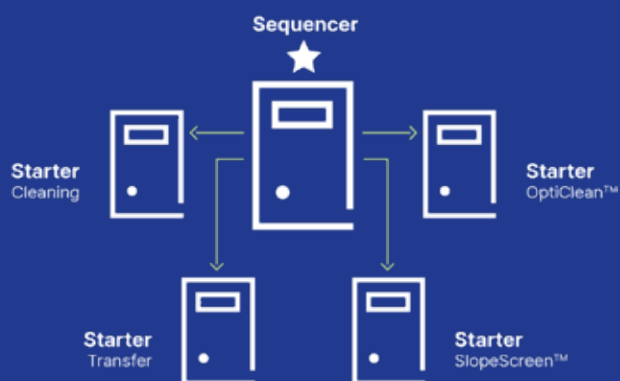
The GEA SlopeScreen™ can be configured with the screen only or as an XP with the addition of an XPress™ for additional water capture and drier solids.



- Stand-alone XPress™ 8 or 6 - 8' (244 cm) or 6' (183 cm) wide.
- 8' to 8' (244 to 244 cm) or 8' to 6' (244 to 183 cm) stainless steel chute with integrated cleaning spray bar.

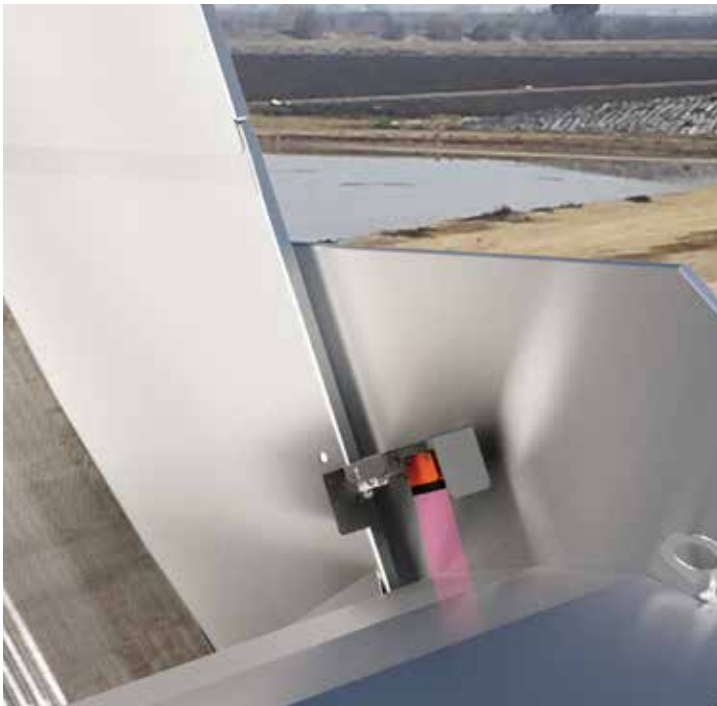
Control Panels.

A wide selection of available starter panels, including an intuitive sequencer panel to control additional manure management operations on the farm from a single panel.



OPTIONS FOR OPTIMUM OPERATION AND RELIABILITY.

GEA intake adapter to help preserve your equipment from foreign objects.
8" (244 cm) "Y" adapter intake made of stainless steel and stone drain valve with 6" (183 cm) hose adapter.



Laser Level Sensor provides accurate readings of the level of solids coming in to an XPress™.

The laser level sensor is installed away from the slurry to avoid manure accumulation. The measurement is independent of pressure or temperature variations. Consequently, the speed of light passing through any gaseous medium does not vary at all. As a result, laser level transmitters offer accurate results with no calibration issues.

Simple to install, it provides quick and accurate responses compared to other alternatives. In addition, the laser allows the rollers to run at a lower RPM during normal operation. When the level of solids is high the speed of the roller will increase for a short time and then return to the lower speed. In case of extreme solids build-up, the laser will stop the feed pump reducing the risk of overflow.

GET THE MAXIMUM PERFORMANCE OUT OF THE SLOPESCREEN™.

In any manure separation system, there are two key components, throughput, and quality. The GEA SlopeScreen™ already offers best-in-class throughput. The GEA OptiClean™ ensures that this throughput is optimized throughout the life of the screen.

The OptiClean™ performs each wash and rinse of your SlopeScreen™ with precision. With the integrated panel you can easily adjust the operating parameters according to your farm. By integrating a wash cycle into a high-pressure rinsing system, the washer removes soil from the front and internal compartments of the screen to keep operating capacity at a maximum without sacrificing water quality.

Manure contains many minerals, nutrients, and micronutrients. These components can lead to build-up that reduces the flow and limits the capture rate. Utilizing an acid-based foaming cleaner, the OptiClean™ allows users to take the utmost advantage of their investment.

Existing systems on the market offer a high-pressure rinse only. The GEA OptiClean™ is a complete washing system like those found in bulk tanks and milking parlors.



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