

Distillers Grains **DDGS**

WATER-FREE SEPARATION TECHNOLOGY INCREASES PROFITABILITY

STET's advanced triboelectrostatic separation technology concentrates protein in plant-based meals and flours, thus, increasing their value. For ethanol producers, the process is independent from the ethanol operation, uses a modular design, and has no impact on a plant's carbon intensity.



DDGS



The STET Process For Protein Enhancement Of DDGS

ST Equipment & Technology (STET) offers ethanol or feed ingredient producers a revolutionary, completely dry, chemical free method to produce a value added, high protein DDGS product. STET's technology concentrates protein by up to 15%, absolute, by separating protein from fiber. The protein rich product (50% protein, dry basis) can then be formulated in mono-gastric feed applications at substitution ratios and sold at a premium. The fiber rich co-product maintains the value of the DDGS when used for ruminant feed, or it can be blended back into the plant's DDGS without a significant impact to protein content.

STET's technology has several advantages to alternative processes that generate a high protein product. STET's process operates independently from the ethanol operation and will not impact the plant's CI score. Because the process is a modular design, the capital required to enter the high protein market is significantly lower and, as you grow your business, is easily scaled. No other process is as environmentally friendly, as it uses no water or chemicals, generates zero waste, and consumes little energy.

STET's separation technology has been in commercial operation for over 30 years, producing more than 25 million tons of value-added products in a range of industries including a number of harsh environments. It is robust, requires little maintenance and it IS proven.

The STET electrostatic separation process is completely dry, requiring no water or chemicals. The STET separator operates continuously, at a high rate (up to 20 tons per hour) and consumes little energy (about 3-4 kW hr / ton input material).

And doing business with STET is easy. From design to build and operate, our model is flexible.

Contact us today to learn how STET can the profitability of your bio-ethanol process!

Benefits:

Product

Produce a premium 50% protein DDGS along with a high fiber co-product.

STET Process

- Is independent from the ethanol operation
- Generates no waste
- Will not impact your CI score
- Has modular design to easily expand capacity as demand grows

STET Separator

- Operates continuously
- Is robust and has been proven over 30 years

Low Energy Costs

- 3-4 kW hr / ton input material

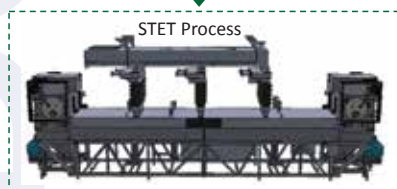
Dry

- Entirely dry, chemical free process



DISTILLERS GRAINS EXAMPLE: Adjustable Yield & Protein Content of High Protein DDGS

1 Ton DDGS



Fiber Rich DDGS

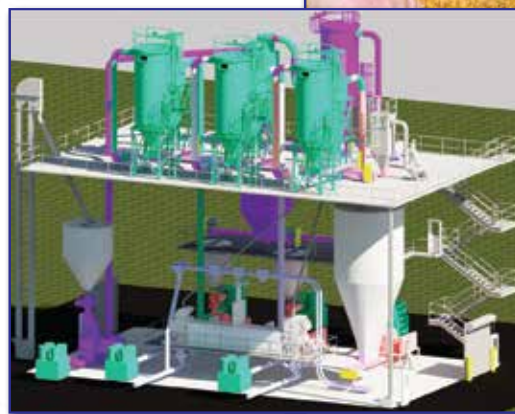
Protein Rich DDGS



0.65-0.8 Ton High-Fiber



0.2-0.35 Ton High-Pro
(3.1-5.4 lb / Bushel)



WLPORT-LAND SYSTEMS, INC.



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