



SKIOLD DAMAS ZETA



SKIOLD MAKES THE DIFFERENCE!



SKIOLD DAMAS ZETA GRAVITY SEPARATOR

With its uniquely designed deck type, the ZETA efficiently and precisely separates your cereals or grains according to weight – with zero vibrations and easy daily operation. SKIOLD Damas Zeta increase the product quality with less waste and increase the efficiency of the process by keeping the down time at a minimum and the capacity at maximum.



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SKIOLD Damas Zeta gravity separator

ZETA gravity separators are used to separate products with difference in specific weight. The ZETA can be delivered with different decks for different grain or seed types and delivers a perfect grading result with minimum maintenance and adjustment needed. As an option, the ZETA can be delivered with fully computerized controls.

How it works

The separator works on a fluidized bed principle. This means that air is forced through the deck causing the lighter fraction of the grain or seed material to float above the heavy fraction. The deck causes the heavy fraction to move upwards while the light fraction floats downwards, separating the two in a very precise manner. Variations in deck speed, air quantity, deck type, deck angle, depth of product and take-off points enable Zeta to do a high and constant quality separation.

Your direct benefits

Efficient grading

In the ZETA, a highly effective fan with filter produces a pressurized airflow through the deck. The unique design of the deck results in an extremely even air distribution and a perfect fluidisation of the grain/air mix and a superbly efficient grading of the grain or seed material.

Simple air adjustment

Due to the unique construction of the deck, perfect air distributing is achieved with just one fan in the entire machine. This means that adjusting the air flow is perfectly straightforward.

Easy installation

Installation of the machine is very easy as only main power supply is needed for the built-in control box. All internal power supplies are pre-wired and incorporating deck drive inverter, fan drive inverter, starters, overloads and cable to the external control panel of the machine.

The ZETA is available with half or full dust hood and recirculation and with several deck types for different products.

Easy to operate

This new version of the Zeta is designed for manual or fully automated touch screen operation of all functions, with 100



Control based on Siemens PLC

program memories allowing very fast and easy adjustment. There are two user levels, which makes it possible to differ between daily operators to technical super-users. The control unit comes in three versions, basic, advanced and advanced+.

The basic version will fulfil the most common user, who don't have many different products and many changes of settings during operation.

The advanced version will be beneficial for the customer who use the Zeta gravity separator for many different kinds of material, and where the distribution plate and deck must be changed frequently.

The Advanced+Guard version is designed for 24/7 production where it is crucial to be able to monitor the condition of the Zeta gravity separator at all times in order to maximize quality, efficiency and plan predicted maintenance.

Frequency motors ensure that the chosen setting remains exactly as selected – no further adjustment is needed. During maintenance and deck changing, only the top deck needs to be changed, which significantly reduces downtime.

Sturdy industrial design

The ZETA is designed for heavy industrial use with a minimum of vibrations transmitted to the supports or the floor construction.

SOFTWARE VERSION	BASIC	ADVANCED	ADVANCED+GUARD
Manual operation	✓	✓	✓
100 program memory	✓	✓	✓
Distribution plate and Deck guide		✓	✓
Shutter position supervision		✓	✓
Feeder Control		✓	✓
Bearing Guard			✓
Vibration Guard			✓
Belt Guard			✓
Wear Guard			✓

