

GRAVITY SEPARATOR ZETA



With its uniquely designed deck type, the ZETA efficiently and precisely separates your seeds and grains according to specific weight. 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.



Your Direct Benefits

- ✿ ZETA is designed with PLC touch screen for operation of all functions, with 100 program memories as standard allowing very fast and easy adjustment.
- ✿ Due to the unique construction of the ZETA deck, an extremely even air distribution and a perfect fluidisation are achieved with just one fan in the entire machine. This means that adjusting the air flow and the operation of the machine is straightforward done on the PLC touch screen.
- ✿ “Plug and Play” installation. Installation of the machine is very easy as only main power supply is needed for the built-in control box.

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Unique Features

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 excellent 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 control panel of the machine.

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

Sturdy industrial design

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



Easy to operate

The Zeta is designed for manual or fully automated touch screen operation of all functions, with 100 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 two versions, basic and advanced.

The basic software version will fulfil the most common user, who dont have many different products and many changes of settings during operation.

The advanced software 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.

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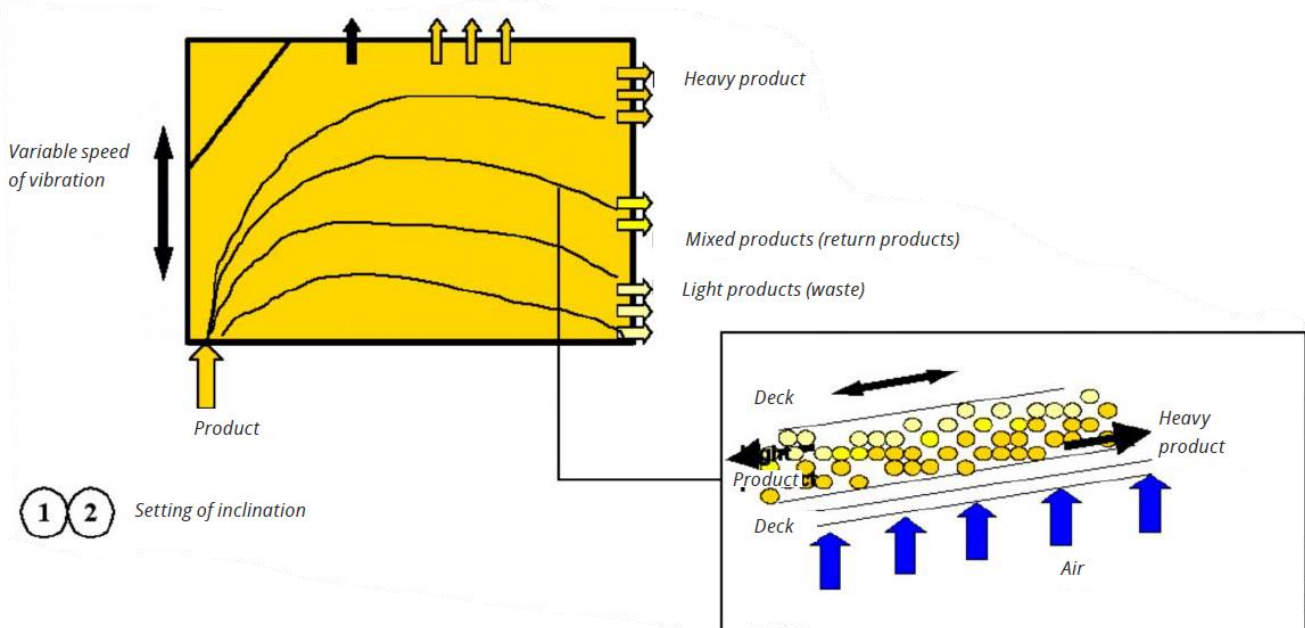
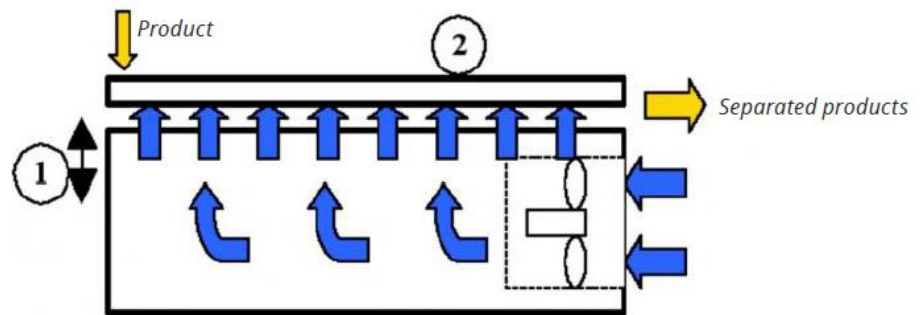


Function

The ZETA gravity separator works on a fluidised bed principle. Air is forced through the deck causing the light fraction to float above the heavy fraction. The deck is reciprocated causing the heavy fraction to move uphill, while the light fraction floats downhill. Variations in deck type, deck angle, and depth of product and take-off

points allow almost any products to be processed successfully. The ZETA is controlled via a built in PLC touch screen.

Options for all models include vibration feeder with an advanced software control module, dust hood, vibration feeder, inlet aspiration and edge aspiration for the light side.



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Technical Specifications	Zeta 13	Zeta 21	Zeta 31	Zeta 51
Screen area (m ²)	1.3	2.1	3.1	5.1
Quantity of air, open air system (m ³ /h)	8500	13500	20000	33000
Quantity of air, recycling air system (m ³ /h)	1500	2700	4000	6600
Inlet aspiration (option) (m ³ /h)	1500	1500	1500	1500
Light side edge aspiration (option) (m ³ /h)	1500	1500	1500	1500
Drive motor (kW)	1.1	1.1	1.1	2.2
Fan (kW)	4.0	7.5	11.0	18.5
Total power consumption (kW)	6.0	9.1	13.0	24.5
Length (mm)	1900	2300	3050	3700
Width (mm)	1550	1670	1670	2070
Height (mm)	1250	1380	1380	1500
Weight (kg)	1000	1150	1550	2300

Guiding Capacity at 18% H ₂ O	Zeta 13	Zeta 21	Zeta 31	Zeta 51
Wheat (t/h)	2,0	5,0	10,0	15,0
Barley (t/h)	1,8	4,5	9,0	13,5
Maize (t/h)	1,6	4,0	8,0	12,0
Paddy (t/h)	0,9	2,5	4,5	6,8
Rape seed (t/h)	0,8	2,0	4,0	6,0