

DESTONER TS 180-S

Application

Destoners are used to separate granular material according to the specific weight into two fractions and in dry material condition.

They find their application mainly in the elimination of heavy impurities, such as stones, metallic particles etc., from coffee, grain, pulse etc.

Working mode

The granular material to be separated is taken to the table deck (in its conveying direction) through an adjustable spring-actuated flap.

Depending on the grain size, the deck surface, with its adjustable inclination of 6-15°, is covered by a fine-meshed or a large-meshed wire cloth, through which a steady and adjustable air flow is aspirated.

The combined effect of the vibrating movement and of the air passing through the deck causes an arranging in layers of the material flowing in (fluidisation).

The heavy admixtures sink towards the bottom and are moved to the highest point of the table deck surface (stone outlet) by the contact with the rough deck covering.

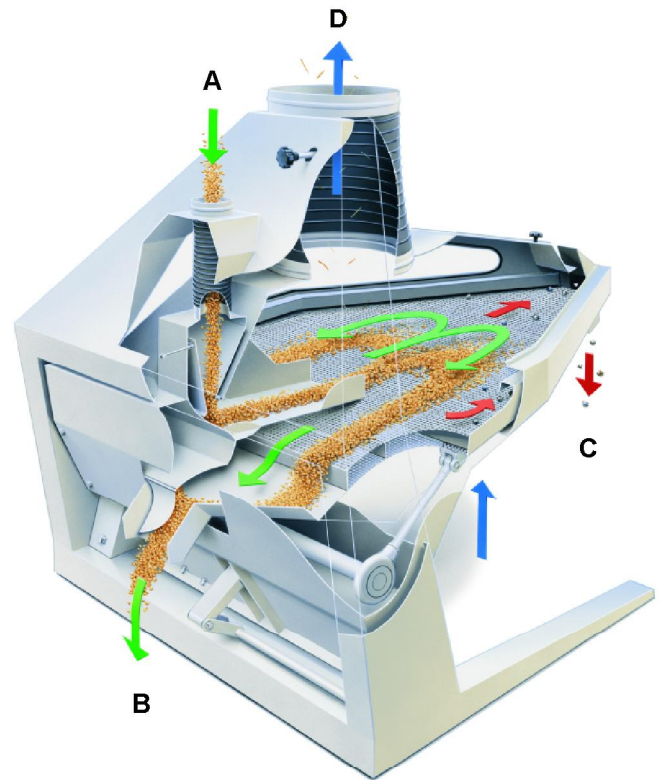
The main product (cleaned product) floats towards the top and flows against the conveying direction of the table, to the lowest point of the deck surface, the cleaned product discharge. In the outlet area of the heavy particles, a „counter-air flow zone“ avoids the cleaned product being discharged into the heavy particles outlet during operation.

Optional equipment

On request the machine can also be equipped with a residual discharge (standard version, working inclination + 8°) to facilitate a rapid table discharge (i.e. for change of product).

Also optional an air recirculation system can be installed. The air comes from the stoner through a fan into a dust separator. The cleaned air comes back to the stoner via air inlet hood. That is mainly interesting for equipment with high air consumption because only a part of the air volume must be exhausted by filters.

- A. Inlet
- B. Outlet for cleaned product
- C. Stone outlet
- D. Connection for aspirated air



Capacity:	
Wheat	10,0 t/h
Coffee (green)	7,5 t/h
Coffee (roasted)	5,0 t/h
Rice (paddy)	6,5 t/h
Screen area:	1,46 m ²
Motors: (standard)	
Power consumption	0,55 kW
Air volume:	
Air requirements	95/120 m ³ /min
Dimensions:	
Machine length	1645 mm
Machine width	1700 mm
Machine height	1580 mm
Total weight of separator:	
Net	390 kg
Dynamic loading at 16,5 Hz:	
PH=+/- 200 N	PV=+/- 115 N (10N = 1 kg)

*) 95 m³/min ... for standard products (e.g. grain)
120 m³/min ... for heavy products (beans etc.)

Technical data can vary for certain of the above due to continued development or a different machine composition.