

DENSITY SEPARATOR



USE

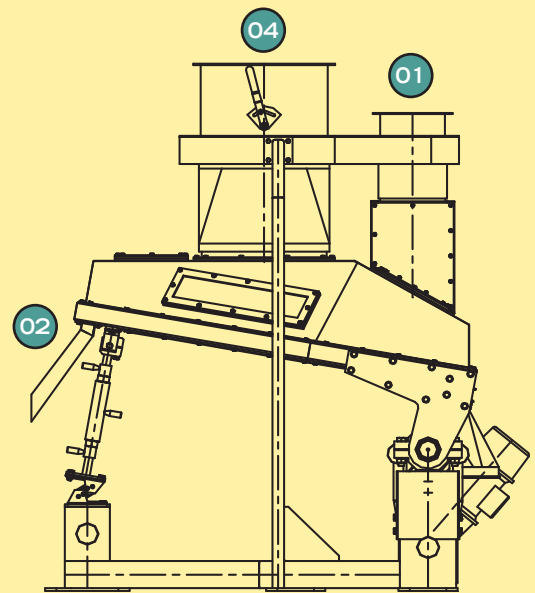
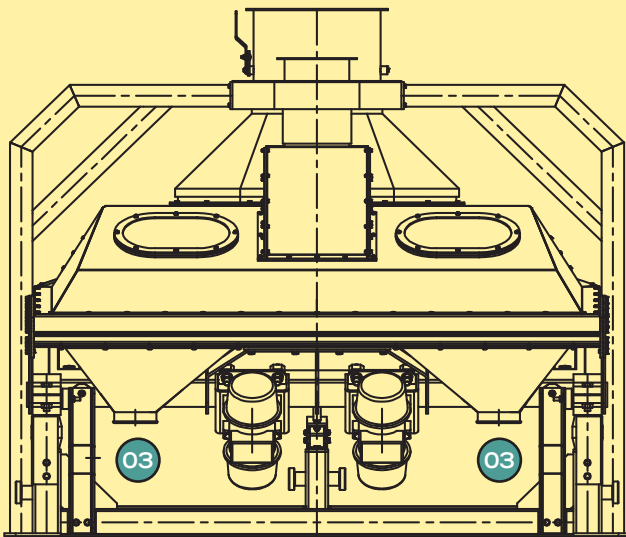
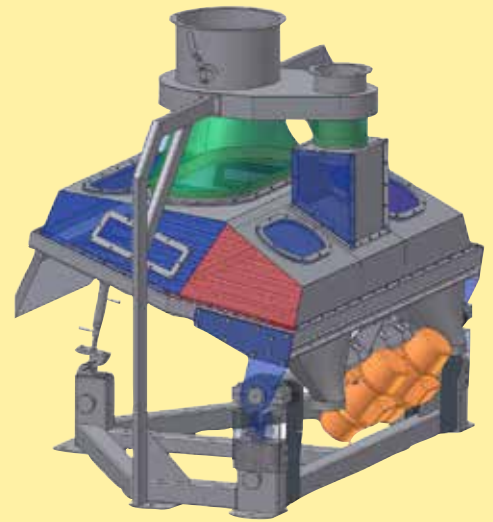
The density separator is used to separate various seeds by specific weight.

OPERATION

The product to be cleaned enters the supplying box where it is dosed for the fanned vibrating element. The effect of a uniform upward airflow is that the product tends to stratify according to the specific weight. The heavy product remains in contact with the vibrating plane which gives a push towards the top. The lightweight product, however, floating on a cushion of air, slips down to the lower hopper. The machine is extremely simple to adjust, allowing a high level of performance, with different types of feeding product.

MANUFACTURING

The machine consists of a metal frame and a tilted vibrant body. The vibrating element is isolated from the structure by spring coil at the back and an oscillating rod mounted on an antivibrator at the front. The movement of vibration is provided by two vibrator attached on the vibrating element and arranged so that the thrust is made in a single direction and only one angle (varies according to the needs). The vibrating element consists of a frame onto which is fixed a special metal wire mesh. The upper part of the vibrating element is partly closed by a sheet of transparent material with good resistance to specific vibrations. This solution allows to inspect the movement of product during the separation thus finding the best setting. The feeding to the vibrating element consists of a box also made of a transparent material in which a swing valve regulates the flow of product. The suction is ensured by an external fan connected at the upper part of the machine.



LEGEND

01) Product inlet

02) Stones outlet

03) Cleaned product outlet

04) Aspiration

MODEL	PRODUCTION t/h*	MOTOVIBRATOR kW	VENTILATOR kW	FLOW RESISTANCE (mm H ₂ O)	ASPIRATION m ³ /h	WIDTH mm	LENGHT mm	HEIGHT mm	WEIGHT kg
SD 20T	20	2 x 0,35	4	100	40	2220	1770	1950	850

*Production calculated with wheat RH 14%, product at a specific weight of 0,78 t/m³



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