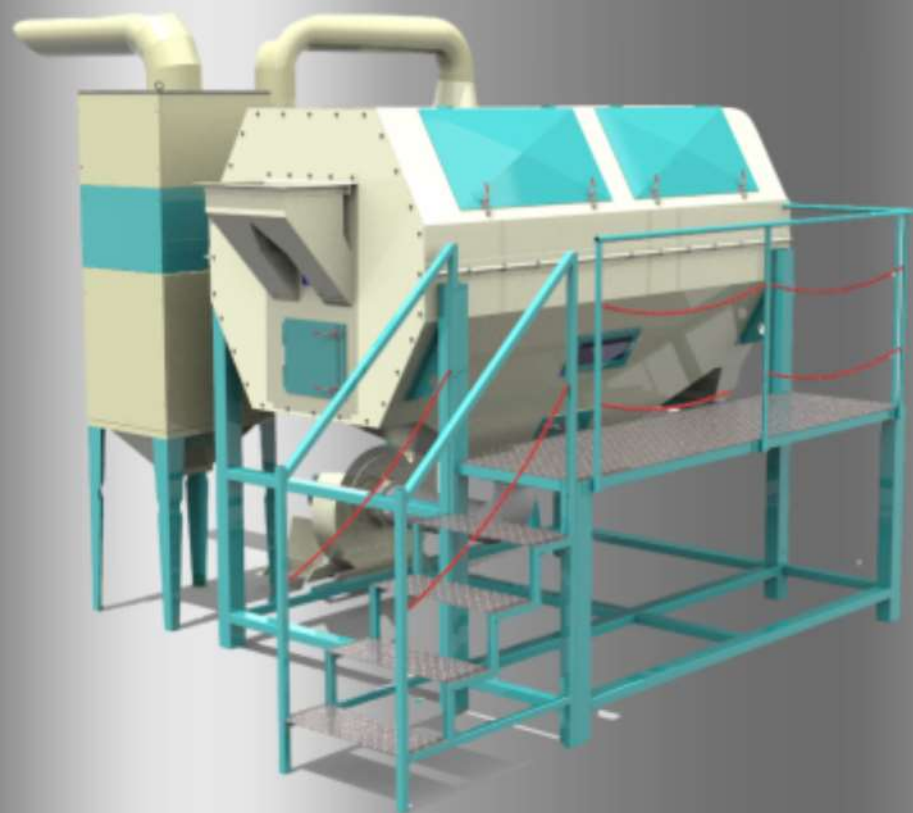


Sorters, purifiers, separators  
of dust particles

# **PILOTOP**

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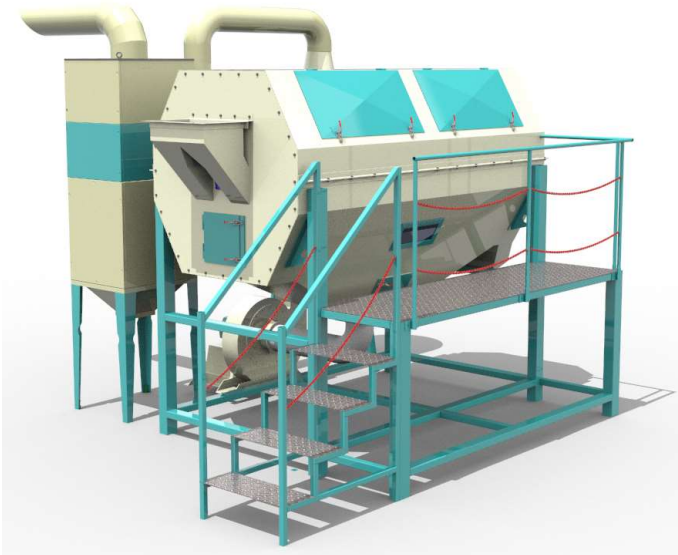
## MACHINE & EQUIPMENT



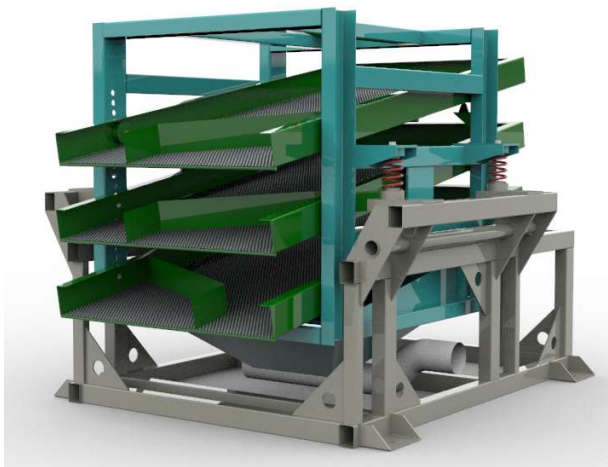
Machine & Equipment

## Sorter, type series

A sorter–separator of dust particles is a set of equipment that is designed for the final cleaning of the product from dust particles undesirable for packaging and further processing. It can be used for cleaning organic and compound fertilizers, feed pellets, gravel, sand and other bulk materials during production. The sorter ensures the receipt of material, its cleaning from dust particles and the separation of dust particles. Depending on the material to be cleaned, the amount required and the method of cleaning, the sorter can be rotary drum or vibrating.



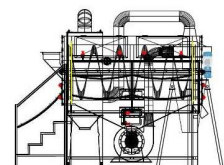
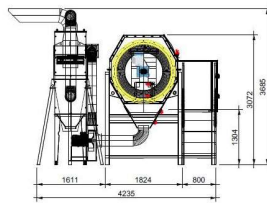
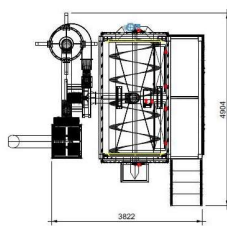
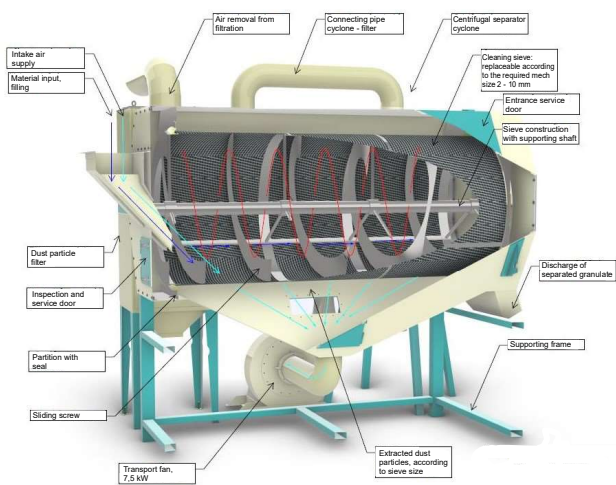
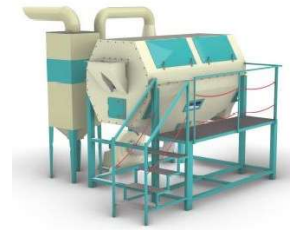
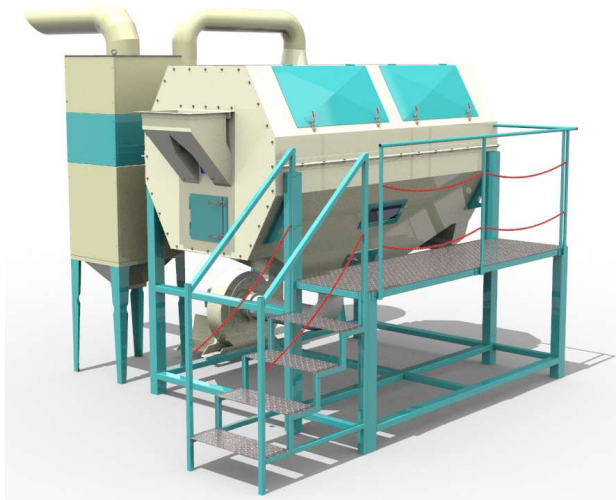
Stationary rotary drum sorter  
-separator with exhaust fan,  
dust particle separator and  
filtration unit



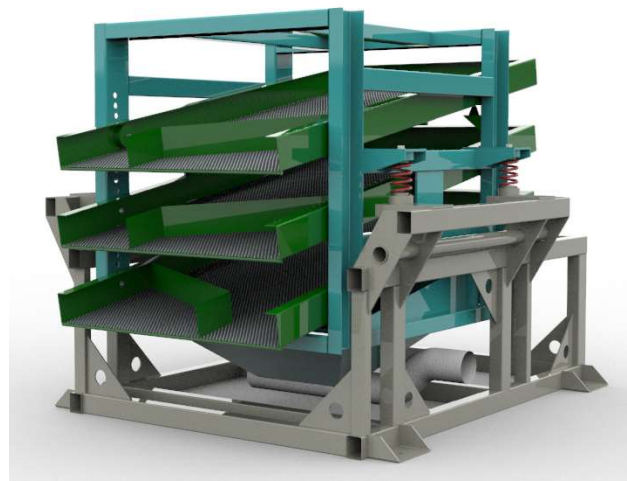
Stationary vibrating sorter

# Drum sorter–separator of dust particles

The sorter works on the principle of a rotating cylinder fitted with a sieve with perforation ranging from 0.5 mm to 20 mm as needed. The material is poured onto the sieve through the filling inlet opening, the material is fed on the sieve by a screw that is part of the cylinder. The exhaust fan sucks out undesirable dust particles through the sieve openings and then blows them into the centrifugal separator – cyclone. In the cyclone, dust and air are separated, where the dust is filled into a collection package (BigBag) and the air is further blown into a filter for final cleaning from microparticles. The separated material is then emptied through the hopper by rotating the cylinder and screw feeder. The sorting screen is installed on the cylinder structure in such a way that it can be replaced by a sieve with a different mesh size, for which the entrance service door is used. The cylinder is driven by a worm gearbox with a 2.2 kW electric motor and controlled by a frequency converter. The fan is equipped with a 7.5 kW electric motor and is also controlled by a frequency converter to regulate the vacuum in the sorter. The sorter is placed on a frame that will provide stability and access to individual parts of the sorter.



## Vibrating sorter–separator of dust particles



Vibrating sorter is a device for sorting bulk materials such as wood chips, wood sawdust, pellets, soil, aggregates, gravel, sand and other bulk materials into various fractions. In the frame structure, screens are mounted on flexible elements, which are driven by a vibration motor. Depending on the material, the required fraction and the power of the sorter, the number of screens is determined as required. The sieves are placed one above the other, they are replaceable and each sieve can be adjusted separately by both vibration strength and screen inclination. The sorter can be supplemented with an exhaust fan, a belt conveyor for filling or transporting the separated material.



# Contact

## **PILOTOP**

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### MACHINE & EQUIPMENT

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