

Mobile cyclone screening technology for processing safety

Control screening

Safety screening

Fractioning

Separation of foreign particles

Breaking of lumps

Aeration of products

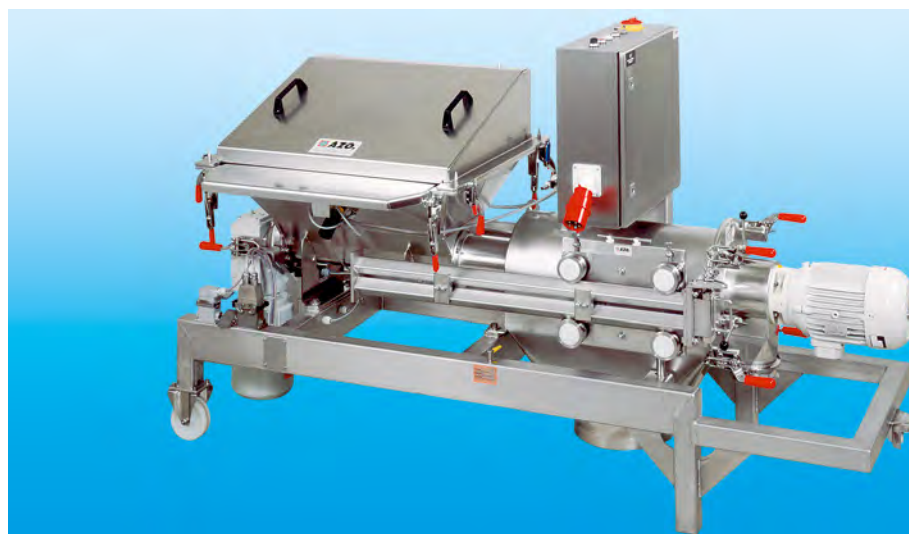
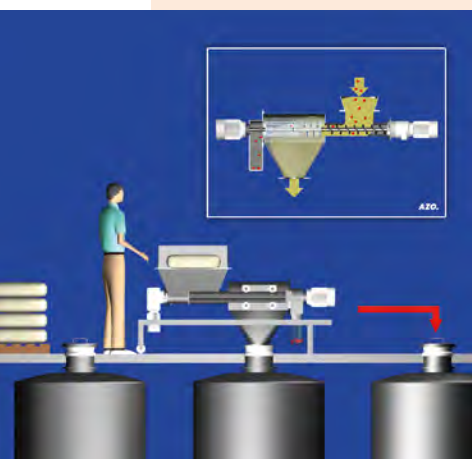
Task

Rising demands on quality and hygiene as well as tightening legal regulations force bulk material processors to subject incoming raw materials to a thorough safety screening. Since in many cases these materials have to be picked up in different locations, a mobile cyclone-screening concept is the logical solution.

AZO solution

For this project, AZO developed a combined pickup and screening station, the DA 650 ET system, in optimized overall height. Integrated into a mobile unit, the cyclone screener type DA that has meanwhile become extremely successful was equipped with a feeding hopper. With its mobile base, the system can be approached at different pickup points for dust-tight docking.

SYSTEMS



The advantages

- The mobile screening system can be used at any point of the production process
- Mobile with roller lifter; thus system can be docked at downstream system with the AZO docking collar or Müller collar
- Screening system or, if necessary, complete station can be dismantled without tools
- Ergonomically correct pickup level
- During bag tipping, vacuumation of the feeding hopper station
- Universal in use because feeding chute can be turned by 180°
- Quick inspection of rotor and screening basket is possible by extraction devices
- Individual driving speeds of both the dosing screw and the screening rotor, thus optimum adaptation to screening product
- Operator protection by approved safety devices
- Cover for feed hopper when station is out of operation

How it works

The material reaches the dosing screw via the product inlet and is transported into the screen casing. The dosing required for screening the material can be done to product-specific values by setting the screw speed via a frequency converter. The product is taken over and swirled smoothly through the screen

basket by the separately driven intake distributor with fluidizing bars. The fines fall through the screen into the fines outlet, the coarse product is transported to its particular outlet, where it is gently discharged.

The special extraction device with rapid fasteners makes it simple to inspect the screen frame by

pulling it out and swivelling it to the side. This enables thorough inspection and quick replacement if necessary. The dosing screw is also quickly extractable by releasing its rapid fasteners. All safety-relevant connections have electrical safeguards (safety switches) which instantly stop the machine on opening. The

screen fabric is fastened on rings, can vibrate freely and is thus self-cleaning. The built-in baffle plate prevents too much fine product getting into the coarse-product outlet.



Screening station with manoeuvring base



Dosing screw pulled out for cleaning



Extraction device makes for easy inspecting of screening frame

Cyclone screener Type DA 650 ET

