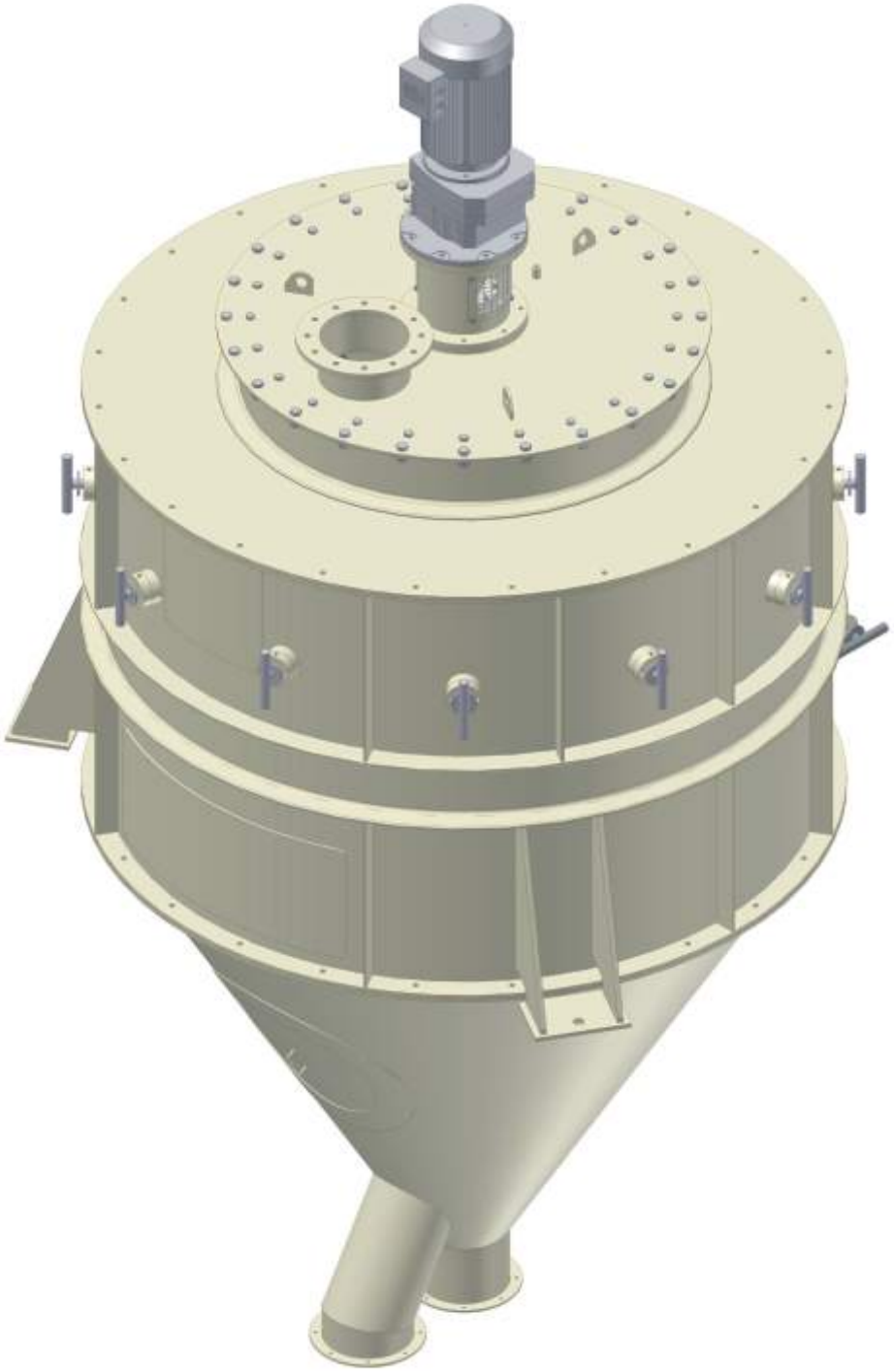
ecutec®

ECUTEC Barcelona S.L.

ULS Series

CLASSIFIER FOR COARSER PRODUCTS

Finest in Classifying



engineering and consulting for ultra-fine technology

The Ecutec ULS machine is an internal airflow classifier

This type of classifier does not require any peripheral equipment such as fans, filters etc. Feed enters the ULS classifier at a controlled rate from the top and falls onto a rotating distributor plate. The plate disperses the product into an adjustable airstream which is generated by the internal fan. The fines are entrained in the air stream and are carried over to the outer cone whilst the coarse particles fall down into the inner cone. The products are discharged from the bottom of the machine. This self contained process significantly reduces investment, maintenance and operating costs. The ULS classifier has been developed especially for the separation of fine products between 45-300 μm. High yields are achieved at very low specific energy consumption.

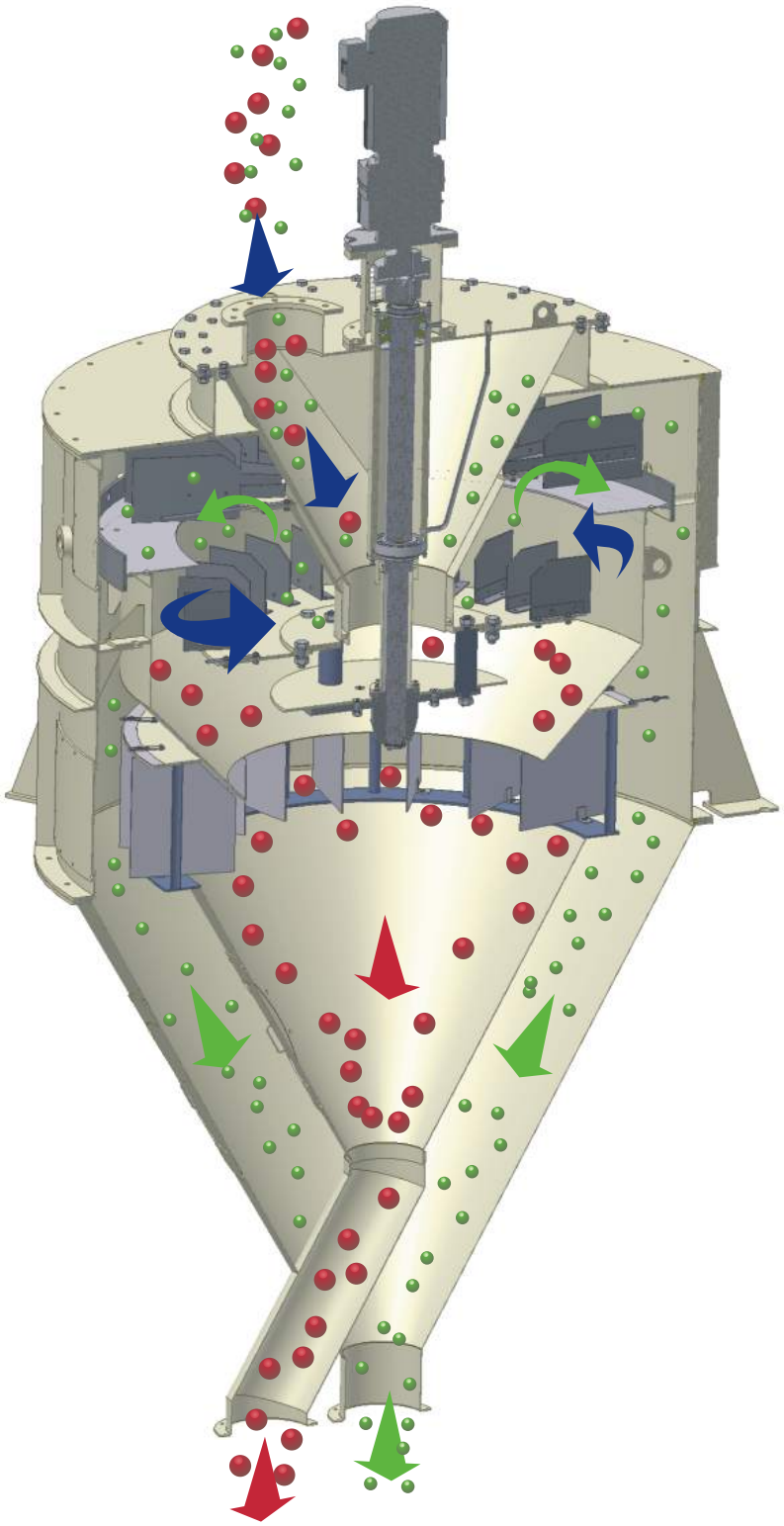
To improve screening efficiency the ULS classifier can be operated prior to a screening machine. This ULS is used to „de-dust" the incoming material at typically 75-125 μm. This installation will not only improve the screening efficiency, but also produce a second „fine" product. For abrasive products all rotating parts as well as all parts in contact with the product can be lined with Ceramic or Polyurethane. Furthermore hardened material can be use for all wear affected parts as well.

When the material to be processed is abrasive, the inlet chute and the rotating parts are either hardened or lined as appropriate. In addition, the body itself can be lined with ceramic tiles or polyurethane if iron contamination is to be avoided.

1. ULS 2500 for $CaCO_3$ $d_{98} \leq 100$ μm

2. ULS 3000 for $CaCO_3$ $d_{98} \leq 200$ μm

OPERATING PRINCIPLE



Material Inlet Coarse Fines

BENEFITS

1. Cut point down to $d_{98} < 45\ \mu m$
2. Extremely reliable and robust design
3. Low specific energy consumption
4. Low investment cost
5. Easy and quick maintenance resulting in low maintenance cost
6. No peripheral equipment necessary
7. Suitable for abrasive products
8. Improves fine screening

ULS 1500 in Test Centre