**FORCED VORTEX TYPE AIR CLASSIFIER - TC Series**

**Turbo Classifier**

High quality classification requires various powders can be accurately and efficiently classified for wide range of cut point (0.5-100μm).

![Turbo Classifier Image]

- **Cut point is easily adjusted by rotor speed.**
- **Multiple dispersion mechanisms increase dispersion of the materials and enables highly accurate classification.**
- **Air regulation mechanism based on the turbo theory increases accuracy and efficiency of the classification.**
- **Fine particles recollecting mechanism enables multiple classifications resulting in increased fine particle yield and processing capacity.**
- **Feedback control of the rotor speed and air flow rate enables continuous and precise classifying operation.**
- **Compact design enables installation at various sites and promotes high operating performance.**
- **The special operating know-how installed control system provides full automatic operation.**

The powder supplied to the material inlet is sucked into the classifier, uniformly dispersed by the dispersion blade and dispersion disc, and fed into the classification zone. Each particle receives centrifugal force generated by the rotor and drag force generated by air flowing toward the center direction. Coarse particles shift to the outside by centrifugal force, fine particles shift to the center side by drag force.

**Specifications**

- **Model:** TC-100E, TC-15NS
- **Operation:** Automatic operation.
- **Cut point:** 0.3-10μm
- **Size:** 1900x1100x1000 (mm)
- **Weight:** 100kg

**AERO FINE CLASSIFIER**

**Strong centrifugal force produced by high speed vortex promotes highly accurate classification from sub-micron to single micron particles.**

- **The twin air system achieves highly accurate classification.**
  - We adapted the twin air system in which the "Secondary air" added at the upper and lower of the classifying zone in addition to the "Main air" which is introduced from the guide vanes.
  - Regulating and accelerating vortex generated by the "Main air" using "Secondary air" achieves high precision classification even in the sub-micron range.
- **Effective results by the secondary air introduction**
  1. **Adjustment of the cut point**
    - The cut point is adjusted by changing the ratio of the main air and secondary air. By maintaining the total air volume of the main air and secondary air, it is possible to change the cut point maintaining high precision classification.
  2. **Dispersion of material powder**
    - The secondary air at the upper zone stimulates dispersion of the material powder sending them to the classification field in a nearly primary particle state.
  3. **Reclassification**
    - The secondary air at the lower zone stimulates reclassification. Especially fine particles yield smaller than 3μm is remarkably improved.

**Specifications**

- **Model:** AC-10
- **Cut point:** 0.3-10μm
- **Size:** 1900x1100x1000 (mm)
- **Weight:** 100kg

**SEMI-FREE VORTEX TYPE CLASSIFIER - AC Series**

**Strong dispersion mechanism enables sub-micron classification in high accuracy.**

- **Only using compressed and suction air with no moving parts enables high level contamination free operation.**
- **High regulating performance can effectively classify non-spherical particles and scaly shape particles.**
- **Ceramic lining specifications enable high level anti-abrasion performance and contamination free operation.**
- **Simple structure without powder stagnation enables easy disassembly and cleaning and is suited for manufacturing of many varieties and small amount products.**
- **High disassembly and cleaning (performance and accurate reproducibility is suited for the process of medicine, etc.**

**Specifications**

- **Model:** AC-10
- **Cut point:** 0.3-10μm
- **Size:** 1900x1100x1000 (mm)
- **Weight:** 100kg