

Dense Phase Fluid Energy Milling



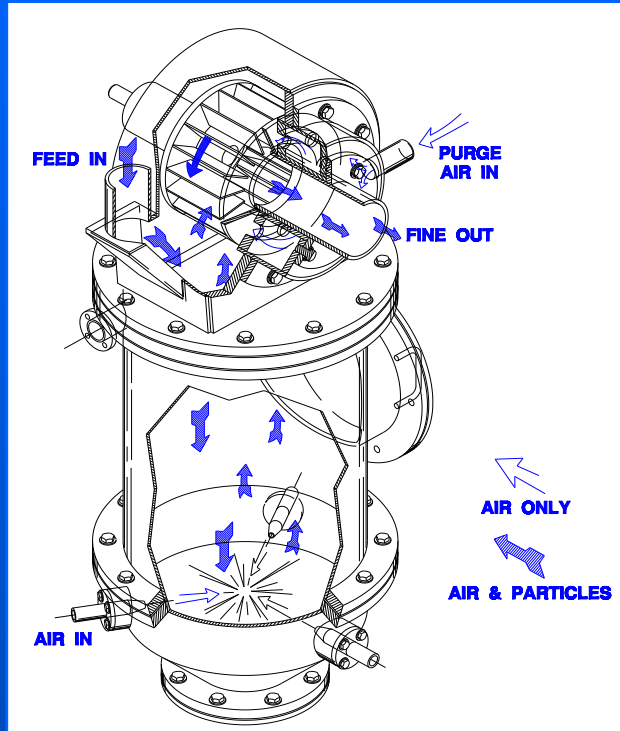
The AVEKA CCE Fluid Bed Jet Mill incorporates dense phase micronization using turbulent, free jets in combination with high efficiency centrifugal air classification within a common housing. This combination allows for enhanced comminution by high probability particle on particle impact for breakage and a high degree of particle dispersion for improved separation resulting in lower overall energy consumption. Abrasive and temperature sensitive products can be finely ground with minimum contamination. The simple, easy to clean, cost effective design offers precise top size control with narrow size distributions in the 95% < 5 um to 95% < 70 um size range. Load cells are used to precisely control mill load for optimum grinding efficiency and/or product size distribution control.

AVEKA CCE Technologies, LLC

Fluid Bed Pulverizer Combined with Centrifugal Classifier

The AVEKA CCE Fluid Bed Mill System comes complete with Mill, Flow Source, Product Cyclone and/or Collector, Feed System, and Control Package.

- Narrow Product Size Distributions
- Load Cell Control
- Precise Top Size Control
- Temperature Sensitive Materials
- Simple Cost Effective Design
- Abrasive Resistant Linings
- Low Maintenance/Easy to Clean
- Four Sizes Ranging from 150 to 1500 scfm
- Ideal for Toners, Abrasives, Powder Coatings and other fine powder applications



Feed is introduced into the common housing through either a double flapper valve or injector. Flooding the pulverizing zone to a level above the grinding nozzles forms the mill load. Turbulent free jets are used to accelerate the particles for impact and breakage. After impact the fluid and size reduced particles leave the bed and travel upwards to the centrifugal classifier where rotor speed will define what size will continue with the fluid through the rotor and which will be rejected back to the particle bed for further size reduction. The high degree of particle dispersion leaving the pulverizing zone aids in the efficient removal of fine particles by the classifier. Operating parameters of rotor speed, nozzle pressure, and bed level allows for optimizing productivity, product size, and distribution shape.

AVEKA CCE Technologies maintains lab facilities for customer testing, equipment evaluation, and custom processing.

AVEKA CCE Technologies, LLC

ultrafine grinding and separating

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Pulverization • Classification • Custom Processing • Particle Size Analysis • Complete Systems Engineering • Consulting