

# DENSE PHASE FLUID ENERGY MILLING



**MODEL DPM2**

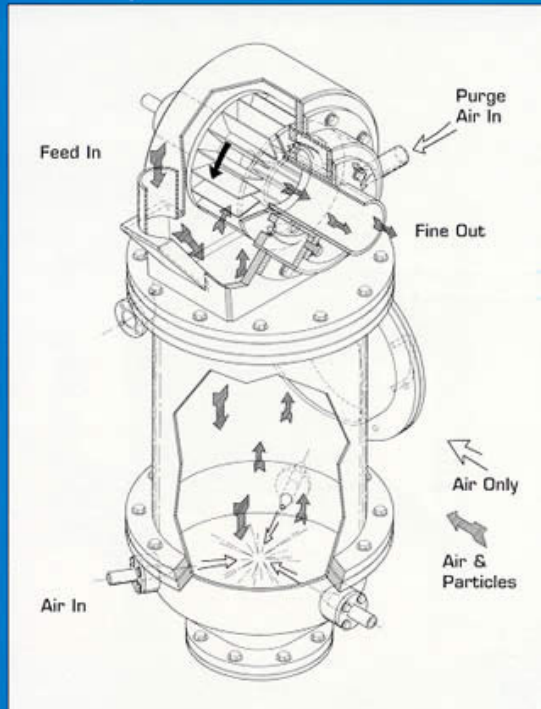
The CCE Fluid Bed Jet Mill incorporates dense phase micronization using turbulent free jets in combination with high efficiency centrifugal air classification. This combination allows for enhanced comminution by high probability particle on particle impact for breakage in close proximity with high efficiency classification at minimum specific energy levels. 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  $\mu\text{m}$  to 95% < 70  $\mu\text{m}$  size range. Load cells are used to precisely control mill load for optimum grinding efficiency and/or product size distribution control.

**CCE Technologies, Inc.**

# FLUID BED PULVERIZER COMBINED WITH CENTRIFUGAL CLASSIFIER

The 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
- Precise Top Size Control
- Simple Cost Effective Design
- Low Maintenance/Easy to Clean
- Load Cell Level Control
- Temperature Sensitive Materials
- Abrasion Resistant Linings
- Four Sizes Ranging from 200 to 1500 scfm
- Ideal for Toners, Abrasives, Powder Coatings and other fine powder markets



Feed is introduced into the common housing through either a double flapper valve or injector. Mill load is formed by flooding the pulverizing zone to a level above the grinding nozzles. 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.

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

## CCE Technologies, Inc.

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

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