



PPS Air Classifier Mills



PPS Air Classifier Mills for high energy grinding with an integral classifier to produce ultra-fine powders.

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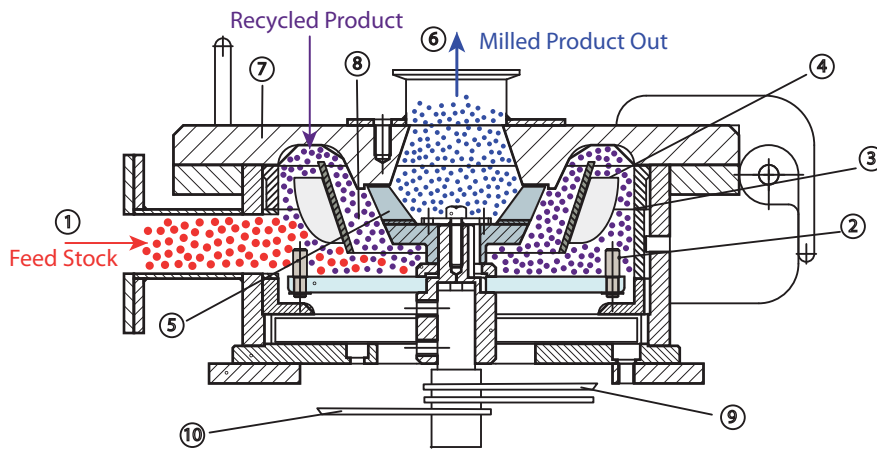
How It Works

The PPS grinder is a vertical grinding mill incorporating an internal air classifying wheel with an independent drive.

Product is fed into the grinding chamber by either a feed screw or a pneumatic conveying system via a rotary feed valve. (See drawing below).

The product is impacted by the high speed grinding media, which causes the feed product to fracture and be thrown by the centrifugal force to the wall of the grinding chamber, which in turn, causes the product to fracture further. The fractured particles are entrained in the induced airflow liberating the outside wall of the internal baffle assembly, which is fitted with air baffles to laminar the airflow. The laminar airflow and particles pass to the internal classifier, which is rotating, in the same direction as the rotor disc. Oversized particles rejected by the centrifugal force applied by the classifying wheel are thrown to the inner wall of the baffle, and move down by gravity and by the pressure created by the classifier. These oversized particles are then re-entrained into the grinding zone where further impact occurs.

This recycle action continues until all the particles pass through the classifier wheel. Product being emitted from the classifier is conveyed in the process air stream where it is either collected in a cyclone or enhanced by further classification in a cyclonic classifier.



PPS Air Classifier Mill Range

The PPS Air Classifier Mill Range is manufactured in Carbon or Stainless Steel and can be designed to withstand 10 Bar PSR. All machines have the unique PPS design with either a single or double opening grinding chamber to facilitate easy cleaning and maintenance. The PPS Air Classifier Mills also have a versatile drive mounted either above or below the grinding chamber base. Most PPS Mills are fitted with manually operated gear units for lifting the grinding chamber cover lid with the exception of the 8 and 10 CMT which is fitted with a motorized geared drive for lid opening.

Model	Main Drive Power	Classifier Drive Power	Approx. Airflow
Lab CMT	1.5 hp	1 hp	175 cfm
1 CMT	5.5 hp	1 hp	500 cfm
2 CMT	10 hp	2 hp	700 cfm
3 CMT	15 hp	3 hp	1000 cfm
4 CMT	30 hp	5.5 hp	2500 cfm
5 CMT	40 hp	7.5 hp	3000 cfm
6 CMT	60 hp	10 hp	5000 cfm
7 CMT	75 hp	15 hp	6000 cfm
8 CMT	200 hp	30 hp	11750 cfm
10 CMT	300 hp	60 hp	18000 cfm
12 CMT	400 hp	75 hp	24750 cfm



Applications

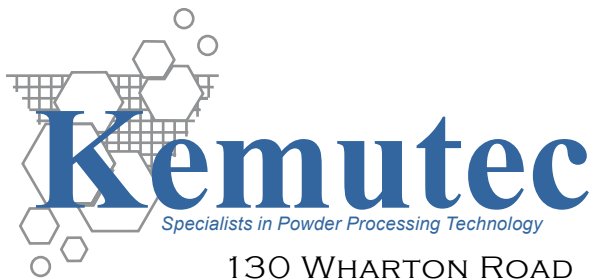
PPS Air Classifier Mills are supplied for either batch process or for continuous operation. They are supplied to all industries that produce fine powders where control of the particle size distribution is required. Typical applications are: Chemical, Minerals, Pharmaceuticals, Food, Powder Coatings, etc. All systems are designed to handle both inert and explosive applications where venting or containment is required.

Special Features

- Temperature controlled grinding
- Constant output
- Tight particle size distribution
- Easy to clean with unique side opening design of PPS CMT Mills
- Easy to adjust particle size capability

Typical Milled Products Include:

- 12X Powdered Sugars
- Sodium Bicarbonate
- Powder Paints
- Clay Powders
- Trona
- Gluten



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Testing

Kemutec offers full product testing at our Kemutec Technology Center just outside of Philadelphia, PA.

We offer:

- PPS Air Classifier Mill Testing
- Kek Centrifugal Sifter Testing
- GKM Flat-deck Screener Testing
- Kek Mill Testing

The above testing is supported by a full analytical lab, which includes laser diffraction particle size analysis.

Kemutec Also Supplies

- Kek Centrifugal Sifters
- GKM Tumbler Screeners
- Kek Universal Mills
- Kek Conemills
- Kek Kibbler Lump Breakers
- PPS Air Classifier Mills
- Celsius Screw Heat Exchangers
- Gardner Mixers and Blenders
- Mucon Valves and Discharge Aids

