



## **SUBMERSIBLE MEDIA MILL, SERIES 2015**

Dantco Batch Basket Mills offer efficient grinding and dispersion capability with time saving, quick cleaning and higher finished product uniformity

The Basket Mill operates as a small grinding chamber. When the basket, filled with milling media, is lowered in a batch vessel filled with mill base and ready for operation, the grinding basket is stationary while the milling shaft - assembled with top axial flow turbine, pump disk, milling component, and bottom high shear blade - rotates at high speed. Thus, the axial flow turbine feeds the pump disk while the milling assembly agitates, refines, and moves the media inside the basket creating a rolling vortex within the basket. The high shear blade at the bottom of the rotating shaft generates the needed dispersion. The top pump disk, built in the milling basket, and the bottom shear blade mounted at the tip of the shaft below the basket, generate effective circulation of the mill base. As a result, the mill base goes through the basket many, many times, thus assuring uniform and maximum particle reduction and dispersion in the shortest period of time. While the shaft rotates, the separation of the media/mill base is assured by a screen (sieve) bolted on the bottom of the milling basket.

The Basket Mill uses small amount of media. As the mill base is pushed into the basket by the pump, it enters the high energy zone of the vortex and it is forced through the media in a radial flow. The forced circulation of the mill base through the basket in contact with the media and the exceedingly high number of induced passes assures highest output and best quality.

Pre-dispersion is made by the shear blade and the fine grinding is made with the basket milling system. Processing beaded carbon black and chrome yellow are possible applications.

Media availability and variety is assured by the industry success of this process. Ceramic beads are effective with flexo, packaging inks, ink jets, specialty inks. Steel shots are good for news inks, offset and gravure.



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