

Raymond® Imp™ Mill

Flash drying and flash calcining systems

- Available in six sizes
- Flexibility to pulverize and dry simultaneously
- Heavy-duty welded plate construction
- Capabilities from 250-40,000 lb/hr / 113.3-18143.6 kg/hr



The Raymond® Imp™ Mill system is a versatile and dependable high speed air-swept swing hammer impact mill designed for fine and medium grinding of soft non-metallic minerals, coals, various chemical compounds, food products and other materials.

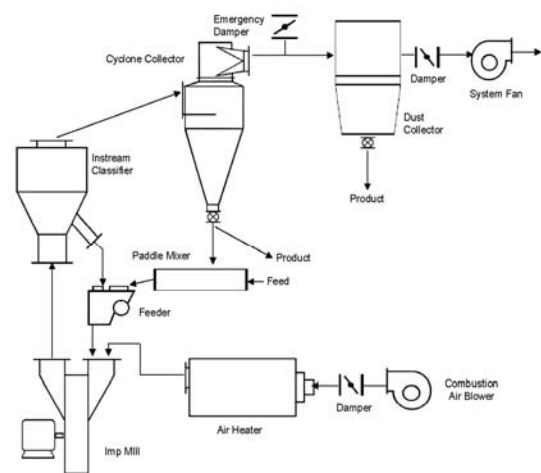
The imp mill is capable of effectively pulverizing almost any solid material with a nominal 1in / 25mm top size that is softer than 2 on the Mohs scale to a fineness of 1,000 microns or a little as 5 microns.

Raymond® Imp™ Mill Flash Drying System

Various materials contain free water in the form of moisture that has to be removed in order to increase the value of the pulverized material and allow it to be handled more efficiently. The imp mill system has the flexibility to pulverize and dry the material simultaneously.

The mill system with flash drying requires waste heat or a source of heated air. The heated air is used to flash dry the material as it is pulverized and swept from the mill. Depending on the initial moisture content of the feed, a portion of the dried product may be combined with moist material in a double paddle mixer. This “conditioned” feed is

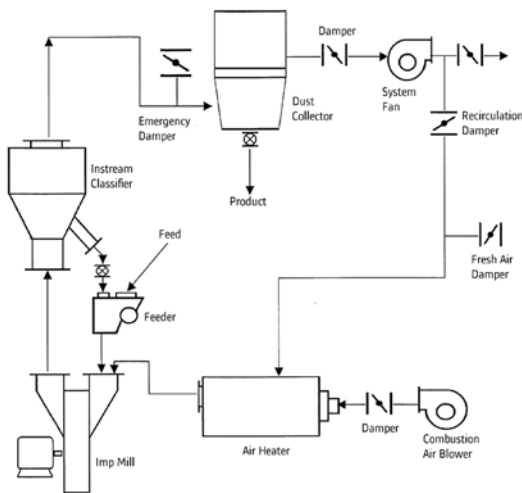
easier to handle and is more efficiently dried and pulverized. A vent is provided to remove a portion of the moist air returning the balance to the system where it is mixed with fresh, hot air from the air heater.



Raymond® Imp™ Mill Flash Calcining System

In addition to free moisture, some materials, such as gypsum, contain a chemically bound water that must be removed in order to change the physical characteristics of the material. This process, known as calcining, which can be easily accomplished by the imp mill system.

Essentially similar to the imp mill system with flash drying, the system with flash calcining provides a number of special features that make it suitable for the higher temperatures involved. Our experience in processing gypsum, by-product gypsum and waste wallboard provides our customers with a single source equipment supply for processing gypsum and the manufacturing of gypsum wallboard stucco.



Construction features

- Heavy-duty construction – housing and bases feature heavy gauge steel plate construction for structural rigidity, long service life and the mass required to ensure smooth performance.
- Housing liners – mill housings fitted with bolt-on replaceable liners, available in a variety of alloys.
- Bearings – cast iron split pillow block with self-aligning spherical roller bearings.
- Hammers – available in various shapes and materials to assure maximum grinding action and efficiency.
- Housing – split housing design provides quick access to mill interior, reducing maintenance costs and lost production.
- Hammer disks/rotor assembly – constructed of heavy gauge steel plate with abrasion resistant liners, mounted on hot-rolled steel shaft and electronically balanced at high speed for high speed for smooth operation, long life and the inertial to absorb heavy impact.

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