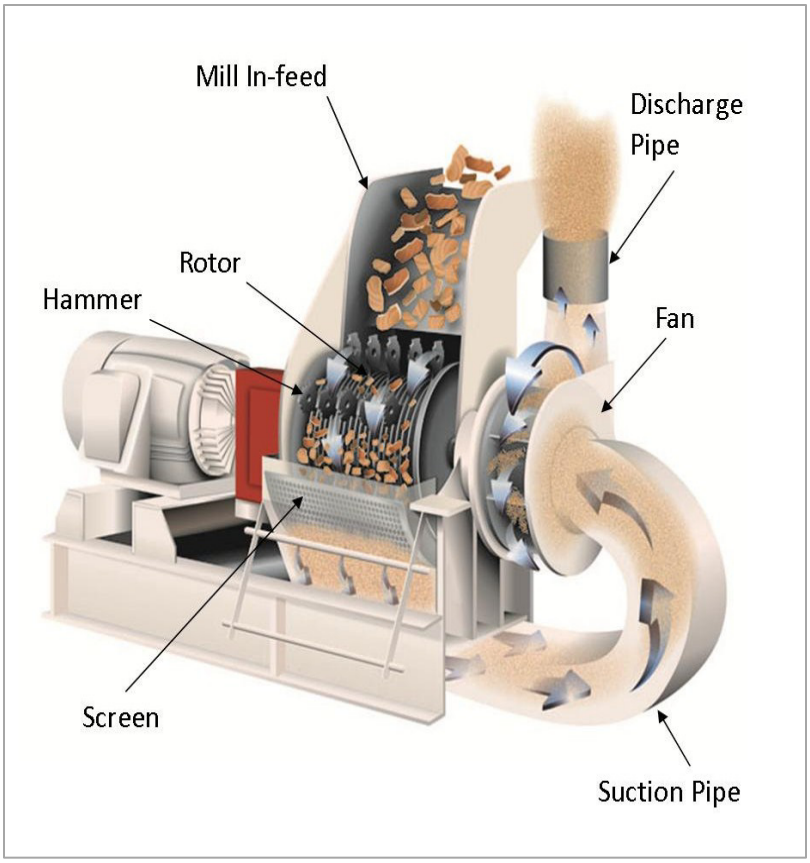
How Does a Pneumatic Discharge Hammer Mill Work?

It's all about the fan.

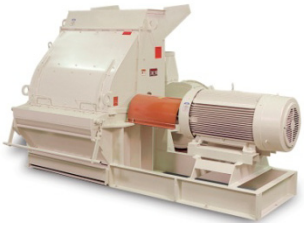


➢ Air swept mills are used primarily when grinding **light, fibrous or relatively non-abrasive** materials to a mid range to fine particle size because lighter particles require suction to overcome the rotor airflow, and pass through the smaller screen openings.

➢The fan pulls the material from the mill in-feed, through the grinding chamber and the screen.

➢The finished product is then pulled through the suction pipe, into the fan; and then finally out the discharge pipe either to storage or next stage processing.

Additional pneumatic discharge hammer mill styles:



Industrial Grinder (separately driven fan)

Dual Stage Ultra Fine Grind

Horizontal Scrap Grinder

Why Choose Pneumatic?

Three key benefits:

1. A properly designed pneumatic discharge system **can increase production 300-400% over gravity discharge mills** when grinding light materials to a fine particle size.
2. Without air, dusty material will take the path of least resistance, often out the feed chute. In a pneumatic system, dust is controlled and contained because all material is pulled in a common direction.
3. Whether integral or separately driven, the fan aids in material transport to storage or next stage processing.

Bonus advantage:
The ability of the fan to pull the material through the screen often allows processing of materials with slightly higher moisture content than can be effectively processed via gravity discharge.

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