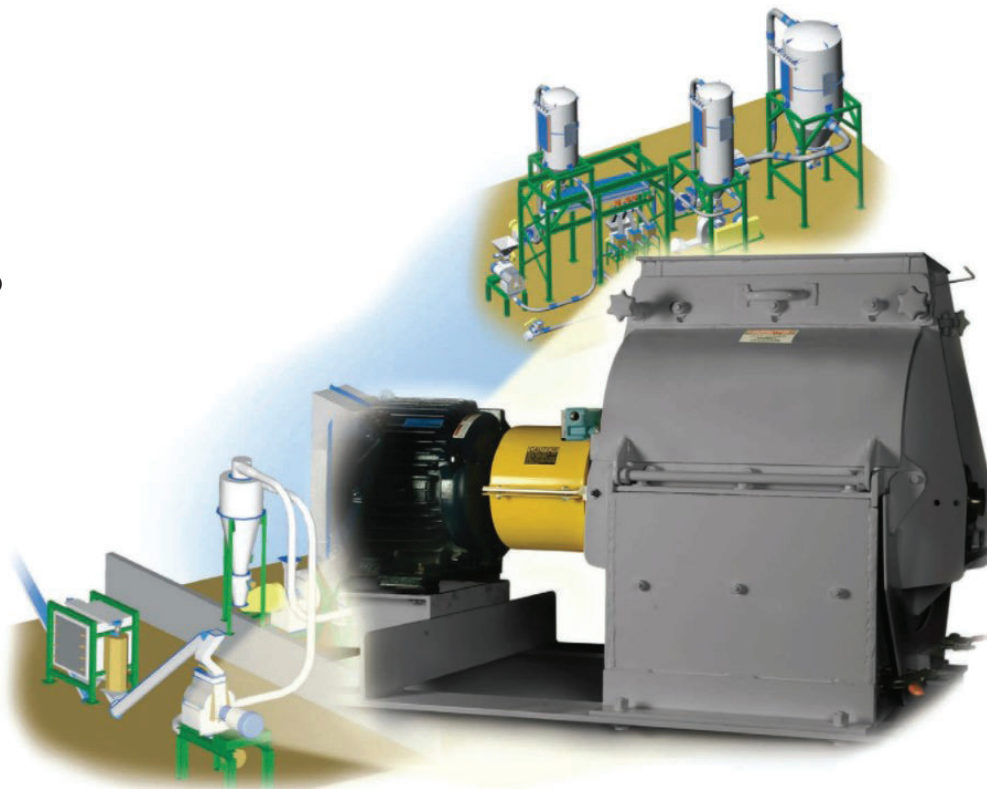


## KEY FEATURES

- Durable, heavy-duty fabrication designed for superior operation and long lifespan
- 100% of screen utilized for maximum efficiency
- A variety of hammer sizes, patterns, and screen openings available to tailor parameters for each application
- Balanced HP to screen area for maximum power efficiency
- Symmetrical, precision balanced, and reversible rotors
- Durable pillow-block bearings enhance unit lifespan
- Rigid-frame screen mounting for uniform hammer-to-screen clearance
- Unique frame track designed for easy screen removal and exchange without tools
- Large access doors make cleaning and maintenance simple and quick
- Stainless steel and sanitary design available
- Optional wear liners and wear-resistant hammers for abrasive products

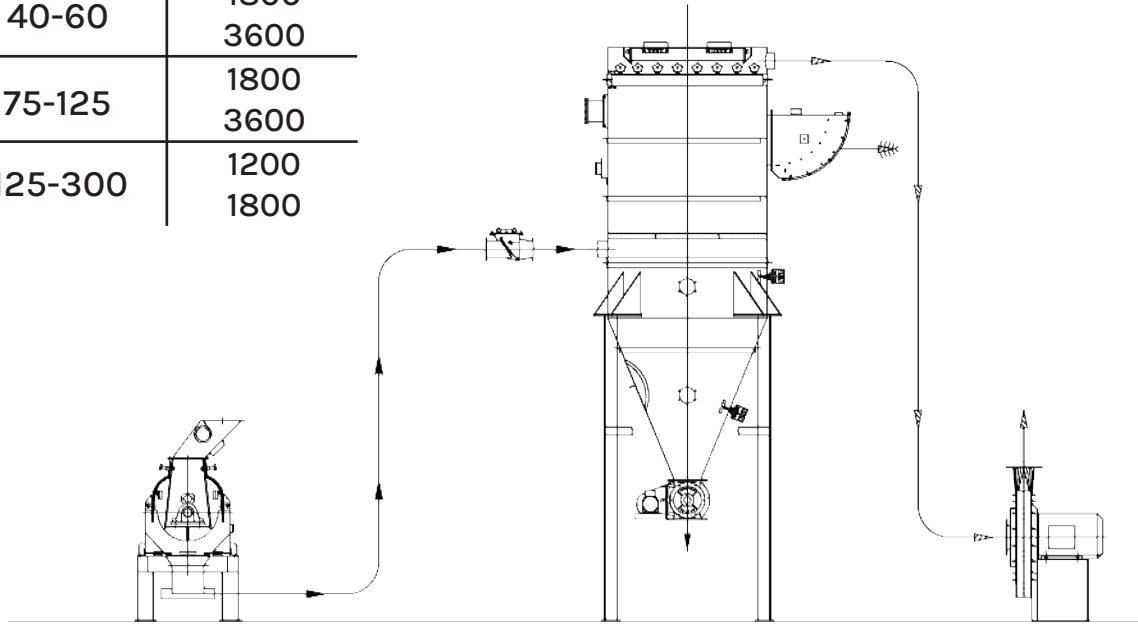
## Partial List of Materials Processed By Hammer Mills

Alfalfa	Gum Arabic
Aluminum Foil	Gypsum
Apples	Horseradish
Barley	Hulls
Beans	Macaroni
Bread Crumbs	Manure
Buttermilk	Minerals, Misc.
Cake Mix	Mustard
Candy	Nut Shells
Carbon	Oats (whole, hulls, groats)
Cardboard Scrap	Oyster Shells
Casein	Paper
Cellulose	Peanuts
Ceramic	Peat Moss
Cereals	Plastic Foam
Chalk	Pumpnickel
Charcoal	Resin, Various
Cheese	Riboflavin
Chemicals, Misc.	Rice
Chicle	Rubber
Chili Peppers	Salt
Chocolate Malt	Sawdust
Clays	Seed Screenings, Misc.
Coal	Shellac
Coca Cake	Shrimp
Coffee Chaff	Soap, misc forms
Cork	Soda Ash
Corn	Soup Flakes
Diatomaceous Earth	Spices
Egg Noodles	Steel Wool
Feed	Titanium
Fertilizer	Tobacco
Gelatin	Tomato Pomace
Glass	Water Softener
Grains	Wheat (whole, gluten, germ)
Graphite	Wood
Gum Arabic	Yeast



# AVAILABLE SIZES & CAPACITIES

Model	Screen Area sq. in	Avg. HP	RPM
G5	440	5-15	1800 3600
G6	540	15-30	1800 3600
G7	790	40-60	1800 3600
G8	860	75-125	1800 3600
G25	2700	125-300	1200 1800



## KEY BENEFITS

Prater Hammer Mills are the premier choice for applications requiring high capacities, operational efficiency, and uniform particle size distributions. All Prater Hammer mills are equipped with our proprietary Full-Screen design that enhances end-product quality while simultaneously extending unit lifespan. Major applications include:

- Conditioning of agglomerated blends
- Granulating of almost any material
- Recycling operations
- Reworking of off-spec products

### These hammer mills are ideal for a variety of products, including:

- Agricultural products
- Biomass materials
- Ceramics
- Cereals
- Chemicals
- Food processing ingredients
- Hemp
- Minerals
- Pigments
- Pulp and paper
- Wood

## THEORY OF OPERATION

The Prater Full-Screen Hammer Mill utilizes a specially shaped grinding chamber designed with distinct grind-and-release zones. Coarse raw product is fed into the chamber, using a rotary feeder or screw, by way of a product inlet at the top of the unit. High-speed hammers impact coarse material against stationary cutting plates fixed to the top of the pre-grind chamber. Impact with the cutting plates decreases the velocity of the material and guides it into the hammer path for maximum impact speed differential. Screen-to-hammer clearance is minimized at the 3 o'clock and 9 o'clock positions to amplify impact. As material moves toward the bottom of the chamber, hammer-to-screen clearance increases toward the 6 o'clock position to help with deceleration and egress of fully conditioned particles through the sizing screen. An adjustable diverter system prevents unfinished product from re-entering the inlet and product feed stream. Finished product is discharged via a hopper below the mill where a mechanical conveyor or pneumatic system can be utilized to remove the ground material. Prater provides a full inventory of hammers, screens, and other grinding elements that are available to satisfy almost any grinding application.

