

PREBREAKER AND EXTRACTOR FOR SIZE REDUCTION



Prebreakers

Prebreakers are size reduction units designed for light to heavy duty requirements. The degree of size reduction attained is dependent upon the physical properties and nature of the process feed material. Hooked, hard faced hammers rotate between fixed, hard faced anvils to provide cutting and shearing of materials ranging from soft and friable through to tough and resilient while conveying product to the discharge. Low rotational speed and high torque enables tough materials to be reduced in size with minimum wear. The machine is available in chemical and hygienic designs to suit the widest range of processing and industry demands.

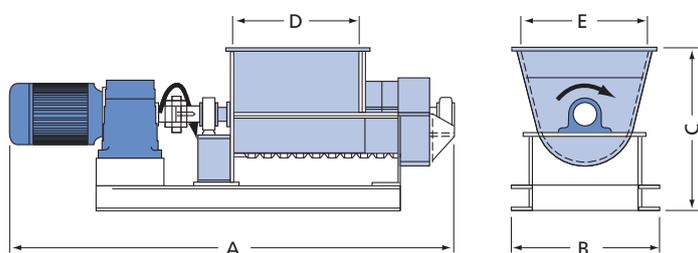
Features and Benefits

- Robust construction, low maintenance
- Withstands shock loads
- Available to 150kW power for the most demanding applications
- Optimum hammer/anvil orientation
- Particle size controlled by orifice plate
- Available in Stainless or Carbon Steel



Typical Applications:

- **Chemical** - Magnesite, Sodium Bisulphite, Sodium Nitrate, Ammonium Nitrate, Stearic Acid, Caprolactum, Dyestuffs, Salt Cake, Delumping Crystalline Powders, Amorphous Phosphorus, Carboxy Methyl Cellulose
- **Food** - Cocoa Presscake, Frozen Egg, Liquorice, Seaweeds, Raw Meat, Vegetables, Raw Fish, Cassava, Bone
- **Petfoods/Animal by-products** - Offal, Hearts, Liver, Green Bones, Carcasses
- **Pharmaceutical** - Pancreas Glands, Thyroid Glands, Opium, Fructose
- **Rubber & Plastics**- Synthetic Resins, Phenolic Resins, Plastics, Polyurethane, Rubber Crumb
- **Pulp and Paper** - Bull Screen Rejects, Wood Pulp Sheets, Wallpaper
- **Miscellaneous** - Tobacco, Caffeine, Cotton Seed Cake, Insecticides, Wet Hides (ex Lime pits), Slag Platinum, Calcium Phosphate, Filter Cakes, Wood Scrap, Insulating Board, Household Waste, Pitch, Waxes, Sewage screenings, Ores, Cork



Model No.	Dimensions mm					Motor Range kW	Speed Range rpm	Weight	
	A	B	C	D	E			lbs	kg
PB 10	3100	349	756	597	508	7.5-15	40-180	2660	1207
PB 12	3290	780	1040	790	670	15-30	40-180	3372	1530
PB 15	4725	1012	1168	838	902	45-55	120-180	11020	5000
PB 18	4850	1408	1693	1143	978	55-90	120-180	19836	9000
PB 24	4880	1450	1720	1130	1016	90-150	120-230	24244	11000

Extractors

The Hosokawa Micron Extractor is similar in operation to the Prebreaker but with a shorter barrel the Extractor has fewer hammers and anvils. The Extractor hammers are of the forward progressing type and the anvils are smaller, minimising bruising and degradation of materials. The throughput is high relative to power consumption.

Key Features

- Robust construction
- Chemical designs
- Hygienic designs
- Choice of orifice plates
- Carbon or Stainless Steel construction

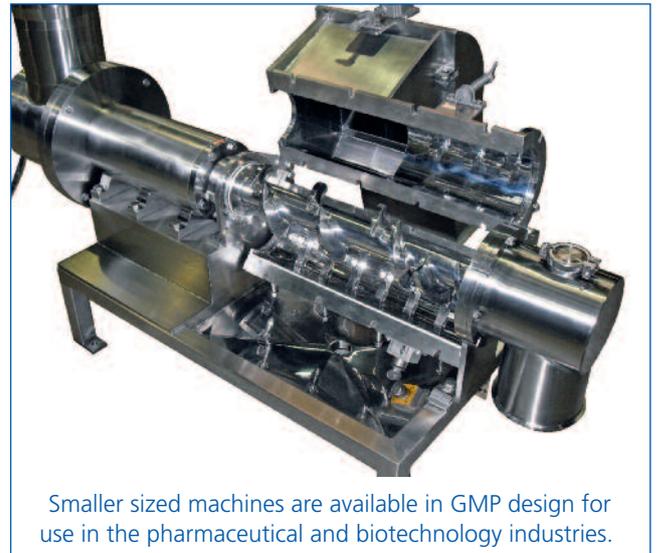
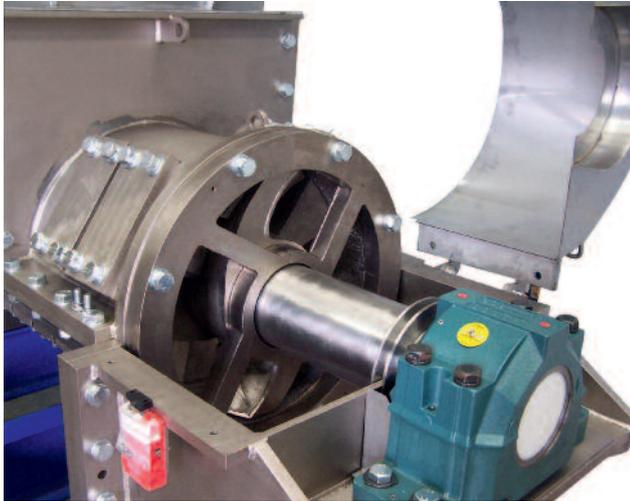
Principle Benefits

- Withstands shock loads
- No product bruising
- Very high throughput relative to power consumption
- No need for band sawing; no need to thaw blocks; consequently no fluid loss
- Control of particle size
- Low maintenance, no knives to sharpen

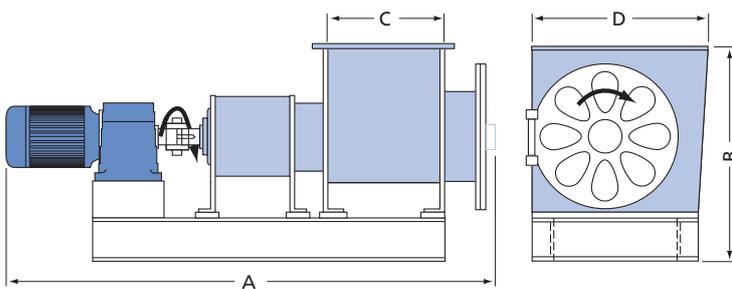


Typical Applications:

- Frozen Fruit Blocks
- Frozen Fish Blocks
- Frozen Meat Blocks
- Frozen Tomato Paste
- Frozen Liquid Blocks - Primary Pharmaceuticals
- Cocoa Blocks
- Potato Ricing
- Scrap Bar Soap
- Butter
- Cheese
- Polymer Gel



Smaller sized machines are available in GMP design for use in the pharmaceutical and biotechnology industries.



Model No.	Dimensions mm				Motor Range kW	Speed Range rpm	Weight	
	Body A	Body B	Hopper C	Hopper D			lbs	kg
RE 6	2200	480	380	380	4	20-140	1100	500
RE 10	3200	850	530	460	7.5	20-140	2200	1000
RE 12	3500	1220	710	520	11	20-28	4480	2033
RE 15	3900	1220	710	610	18.5	25 - 30	6720	3050
RE 24	4750	1230	860	910	37	25 - 30	11200	5080



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