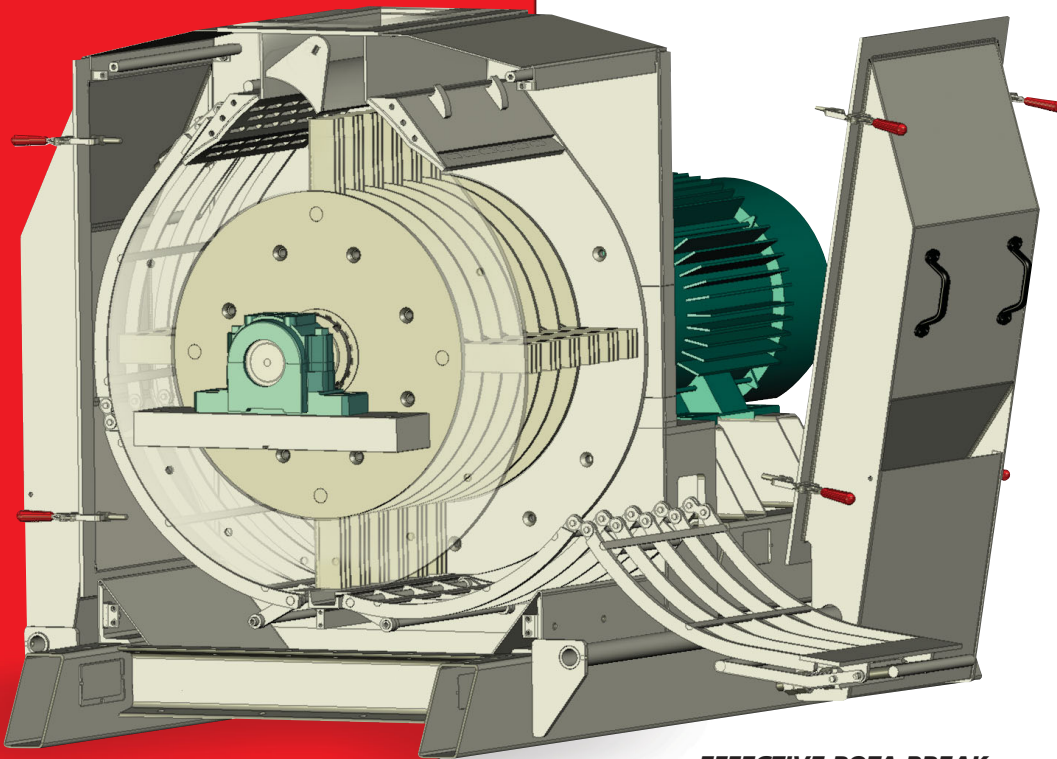


The Evolution Hammermill

by Prater Industries



ENHANCED PRE-GRIND

Sharp radius inlet cutting plate pre-grinds incoming material down to a uniform size generating an even feed into the grinding sector to accelerate throughput capacities and increase effective screen service life

UNIQUE SHAPED GRINDING CHAMBER

Innovative shaped grinding chamber has been engineered to concentrate particle reduction in upper sectors then accelerate sized particle egress across an adjusted circumference in the lower sectors for unparalleled hammermill performance

EFFECTIVE ROTA-BREAK

Rota-Break stops material rotation at 6:00 location to re-establish inlet tip speed and material impact differential velocity and sustain full cycle particle reduction efficiency

ADJUSTABLE CUTTING SCREEN*

*Patent applied for

CONCEPT

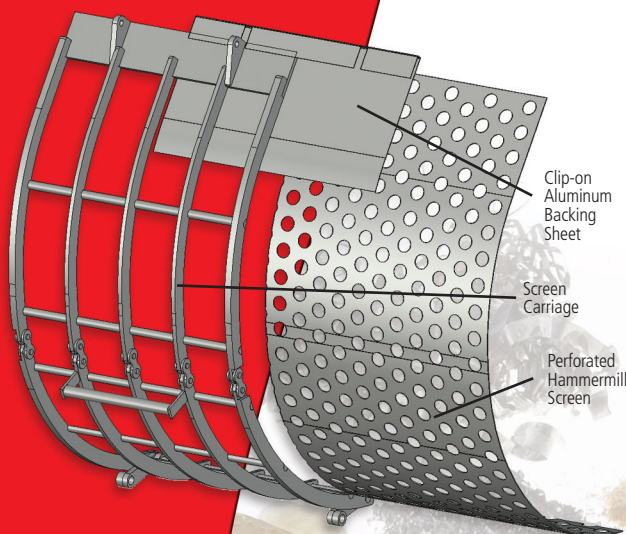
Secured outside the upper screen, backing sheets block the path of course particle egress, converting perforated holes into cutting edges to increase reduction action and shift the particle size curve 20% to 30% finer.

BENEFIT

In practice Evolution's Cutting Screen will replicate a typical $8/64$ " perforation particle distribution through a $12/64$ " with a 15% to 20% increase in Lbs/HP/Hour (varies with material, moisture, genetic modification).

ADAPTABLE

Aluminum backing sheets are available in any length, change as readily as screens and provide unparalleled adaptability to new materials and changing markets.



HAMMERMILLS: PRATER INDUSTRIES' FIRST PRODUCT LINE

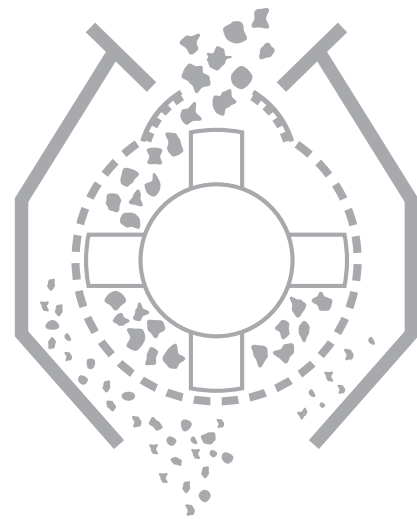
PRATER — HAMMERMILL EXPERTS FOR OVER 80 YEARS

Effective Grinding Circumference for Prater Evolution Hammermills

40" Diameter						
Mill Model	Screen Area	Pre-Grind Area	Rota-Break Area	Effective Total Area	Typical Drives	Effective Sq In to HP
40x22	1,968"	195"	54"	2,217"	100 HP 125 HP	22.17"/HP 17.77"/HP
40x32	2,976"	295"	82"	3,353"	150 HP 200 HP	22.35"/HP 16.76"/HP
40x42	3,984"	395"	109"	4,488"	250 HP 300 HP	17.95"/HP 14.96"/HP
40x50	4,656"	461"	128"	5,245"	300 HP 350 HP	17.48"/HP 14.98"/HP
40x64	6,000"	594"	164"	6,758"	350 HP 400 HP	19.31"/HP 16.89"/HP

45" Diameter						
Mill Model	Screen Area	Pre-Grind Area	Rota-Break Area	Effective Total Area	Typical Drives	Effective Sq In to HP
45x22	2,173"	215"	54"	2,442"	100 HP 125 HP	24.42"/HP 19.54"/HP
45x32	3,286"	325"	82"	3,693"	150 HP 200 HP	24.62"/HP 18.46"/HP
45x42	4,399"	436"	109"	4,944"	250 HP 300 HP	19.78"/HP 16.48"/HP
45x50	5,141"	509"	128"	5,778"	300 HP 350 HP	19.26"/HP 16.51"/HP
45x64	6,625"	656"	164"	7,445"	350 HP 400 HP	21.27"/HP 18.61"/HP

54" Diameter						
Mill Model	Screen Area	Pre-Grind Area	Rota-Break Area	Effective Total Area	Typical Drives	Effective Sq In to HP
54x22	2,665"	277"	54"	2,996"	125 HP 166 HP	23.97"/HP 18.05"/HP
54x32	4,030"	418"	82"	4,530"	208 HP 250 HP	21.78"/HP 18.12"/HP
54x42	5,395"	560"	109"	6,064"	290 HP 333 HP	20.91"/HP 18.21"/HP
54x50	6,305"	655"	128"	7,088"	333 HP 416 HP	21.28"/HP 17.04"/HP
54x64	8,125"	844"	164"	9,133"	416 HP 500 HP	21.95"/HP 18.27"/HP



Partial List of Materials Processed by Prater Hammer Mills

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



2 Sammons Court • Bolingbrook, IL 60440
 Tel: 630.759.9595 • Fax: 630.759.6099 • Toll Free: 800.323.5735
 Email: info@prater-sterling.com • Web site: www.prater-sterling.com