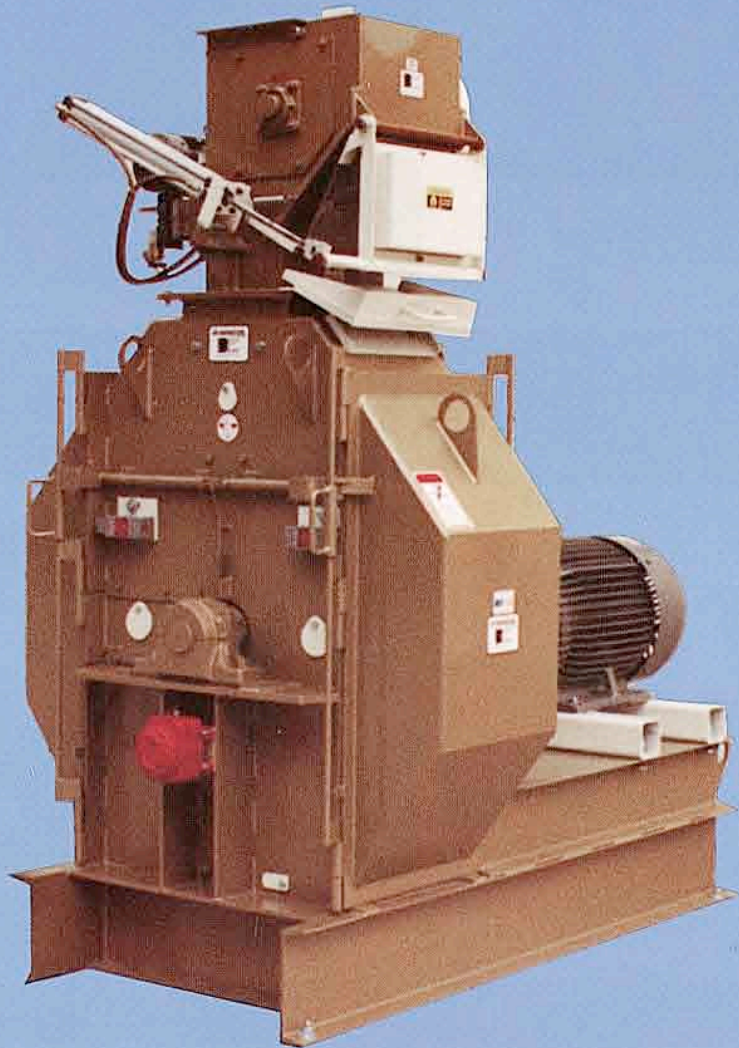


BLISS
INDUSTRIES, INC.

The Pioneer
In Particle
Reduction
Technology



ELIMINATOR
H A M M E R M I L L S

Proven By The Industries We Serve

Material Processing and Handling Equipment for Industrial,
Agricultural, Food, Chemical, Wood and Fiber Industries.



The Pioneer Woman
Ponca City, Oklahoma

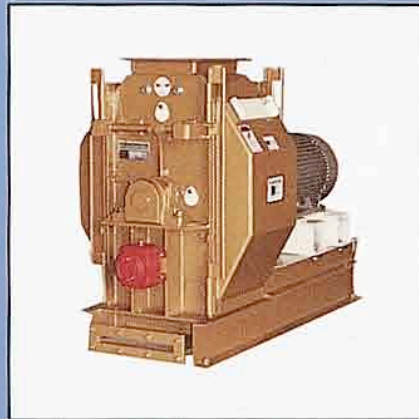
Bliss Industrial

Better Service
+
Better Quality
+
Better Technology
+
Better Design
+
Better Features
+
Better Accessories
+
Better Energy
Efficiency
=
Better Equipment

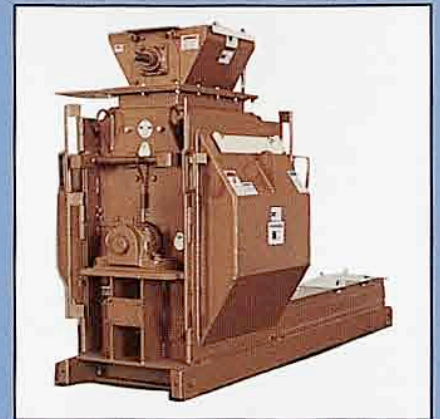
BLISS
INDUSTRIES, INC.

ELIMINATOR
HAMMERMILLS

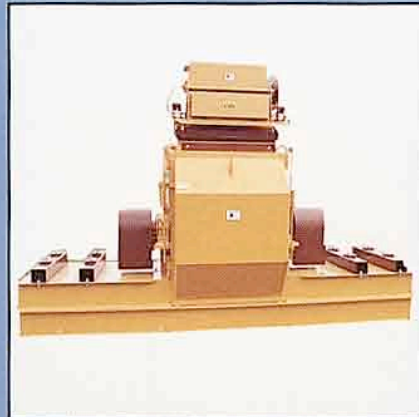
BETTER
BUILT
BY
BLISS



19" Diameter Series
Model E-1906 TF, 3600 rpm
Big Performance in a Small Package



22" Diameter Series
Model E-2220 TF, 3600 rpm
With Low Profile Rotary Feeder



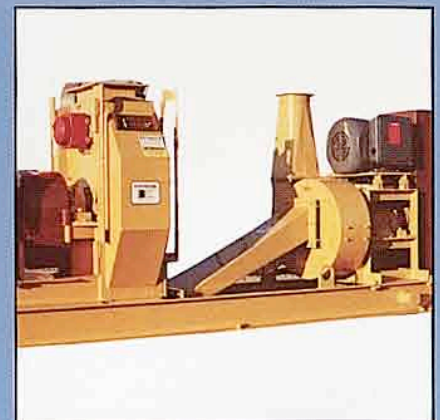
Dual Base Hammermills
One-Half the Horsepower
Needed on Each Side



Bliss Industrial Model Hammermills
for 7 Days - 24 Hour Requirements



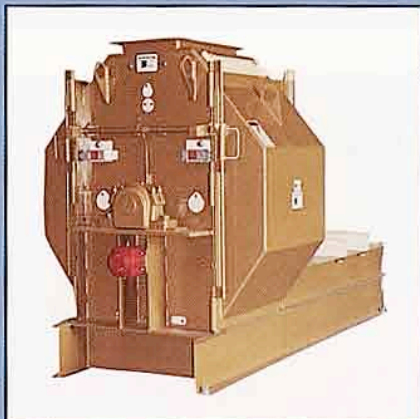
Laboratory Testing Performed with
Actual Production Model Mill



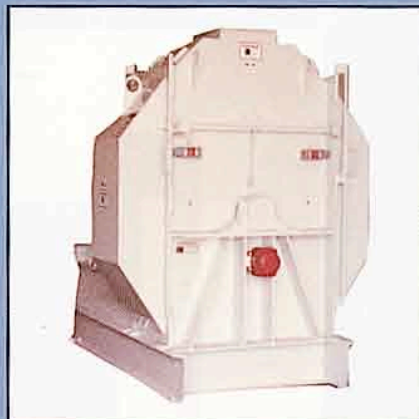
Hammermill with Separate
Fan-Skid Mounted

**We Offer Quality Equipment and Systems
Custom Designed to Your Specifications!**

Quality Equipment



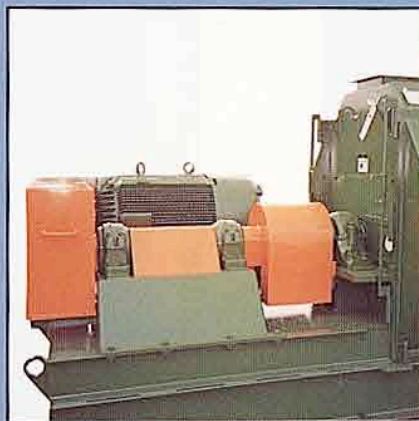
38" Diameter Series
Model E-3815 TF, 1800 rpm
a Versatile Performer



44" Diameter Series
Model E-4415 TF, 1800 rpm
Giant in Design and Capacity



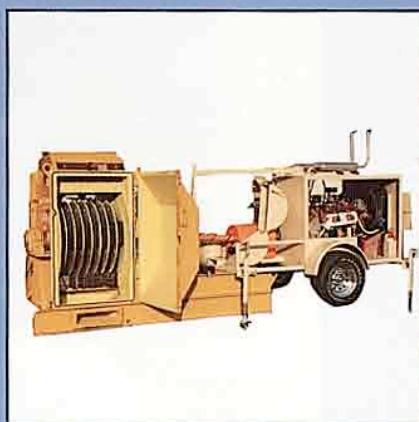
"The New and The Old"
Direct-Connect Fan Replaces
Old-Style Inefficient Mills



Hammermill with V-Belt Drives



Hammermill with Plenum Platform
and Structure



Hammermills Tested for Rotor Balance
and Brake-In Period for Bearings at Actual
Production Speed Before Shipment

Through Modern
Technology and
Lab Testing
We Size

Hammermills

for Maximum

Productivity, a

More Uniform

Granulation,

Energy Efficiency

and Low

Maintenance Costs

BLISS

A Full Line of Pelleting Equipment to Meet Your Requirements

**ROBINSON
SYSTEMS**

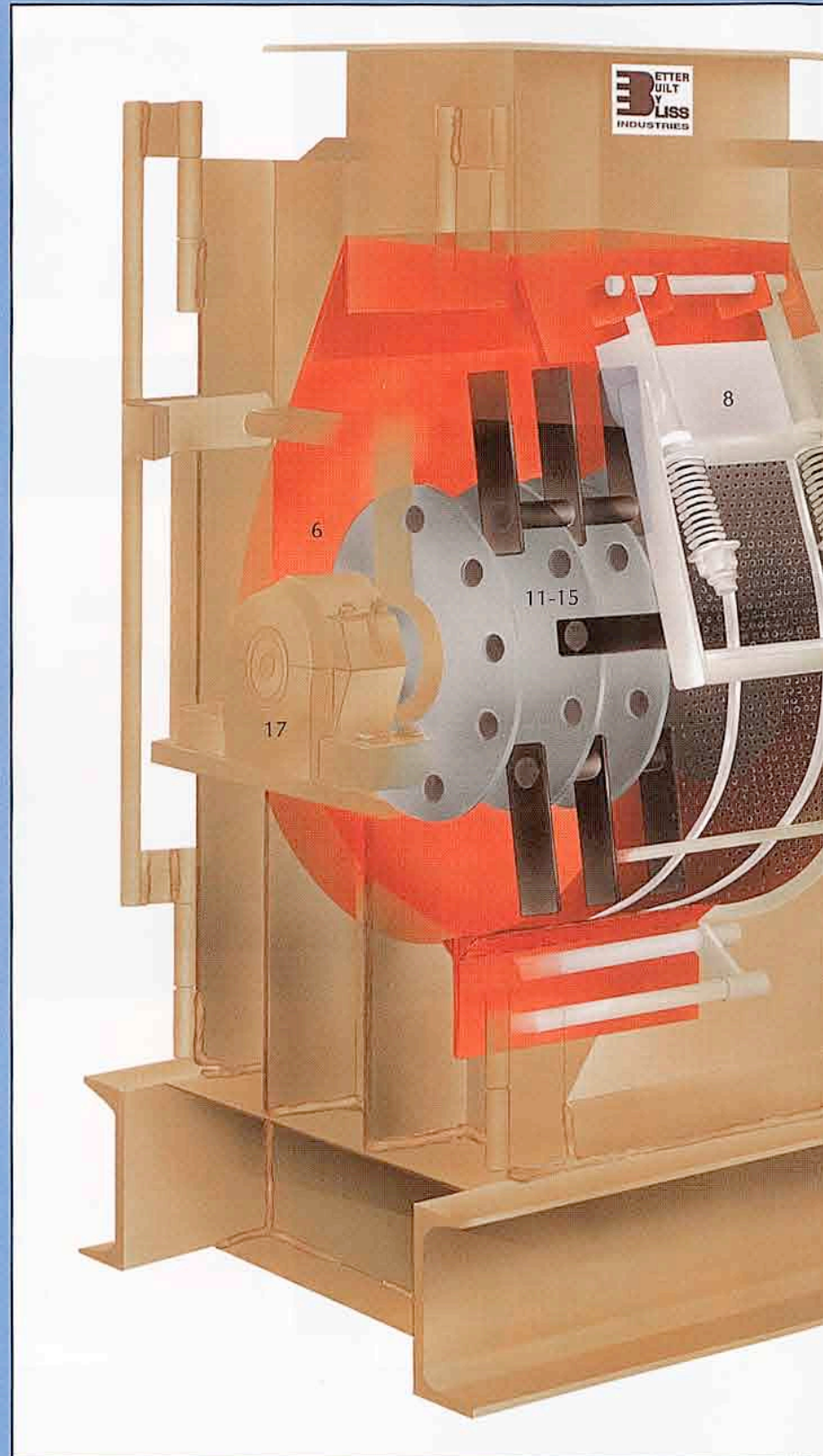
BLISS
INDUSTRIES, INC.

ELIMINATOR
HAMMERMILLS

Bliss Features

- 1. Service . . .** At Bliss Industries, **service is our number one priority.** We believe that even the best designed equipment is only as good as the service it receives.
- 2. Easy Access . . .** The Eliminator is the most accessible Hammermill on the market. The doors can be opened and the screens removed in less than 60 seconds from the time the rotor is stopped.
- 3. Doors . . .** Our heavy-duty 3/8" plate doors hinge left or right so they can be completely removed for greater accessibility – this is not an option, but a standard feature on every Bliss Hammermill. Also all parts of the door lock hinges are secured to the doors or the mill, eliminating loose pieces that could create a safety hazard.
- 4. Easy Maintenance . . .** The Eliminator can be completely rebuilt in less time than it takes to get any other hammermill apart. You'll never need a cutting torch to remove any part on the Eliminator.
- 5. Parts Replacement . . .** The Eliminator is designed to use standard off-the-shelf parts, of course, we appreciate your parts business, but we also want you to have the option to choose.
- 6. Internal Wear Plates . . .** The Eliminator is designed to do all the grinding against replaceable wear plates. Never against the mill housing. Wear plates are available in different metals for better wearing characteristics and are constructed in two pieces with each half removable from the side doors.
- 7. Screen Carriage . . .** The Eliminator's one-piece screen carriage is manufactured of round rod and flat mild steel. Minimal screen blanking takes place with the round rod, and the mild steel takes more shock than high carbon steel. (We do not use bicycle chain or split carriages to hold the screen in place.) The most positive seal available.
- 8. Screen Carriage Lock . . .** The extra heavy duty carriage locks are one-piece in construction. They are spring loaded and shock absorbent and can be changed out quickly and the high quality springs are especially designed for their application.
- 9. Screens . . .** We use all staggered perforated screens with no special mounting angles, flanges or bands. These plain screens will cost you less.
- 10. Mill Housing . . .** The heavy one-piece plate housing decreases the noise level while the octagonal shape creates vortices designed to slow both air and product in the mill. This improves grinding performance and prolongs hammer and screen life. Bliss mounts the rotor between the bearings. No overhung rotor. Still because of the Eliminator's superior design, the rotor can be removed from the side, without removing the upper mill housing and feeder system.
- 11. Reversible Rotor . . .** No need to get inside the Eliminator to reverse the rotation of the rotor and hammers. All changes are made on the exterior of the mill and **bi-directional** Hammermilling is achieved with **no directional gate.**

Bliss Industrial C



When You Have A Spe

Quality Features



Specific Need - Talk To Us.

12. Rotor Balance . . . The Eliminator rotors are balanced at their actual operating speed, not at 900 rpm or less. They are balanced in the mill with the bearings with which they are going to be operating. All bearings have a break-in period.

13. Rotor Design . . . The Eliminator rotors are all machined and assembled with spanner nuts. With welded rotors, the welds do not break, but the metal fatigues beside the welds.

14. Recessed Rotor . . . Our rotors are recessed behind the internal wear plates to reduce air circulation around the outside of the rotor, this decreases wear on the outside rotor plates and hammers.

15. Rotors Double-drilled . . . Our rotors are double-drilled for hammer to screen spacing of 3/16" or 1/2". This allows the use of the same hammer on two or more mills and products, cutting inventory requirements and chances of costly mistakes.

16. Vortex Cutter Bar . . . The Vortex Cutter Bar slows the air and product forcing recirculation back into the hammers for more effective grinding and greater capacity on the upside screen.

17. Bearings . . . The two-piece SKF "CC" series spherical roller bearings are standard bearings and have a block on each side to secure the rotor in the center of the grinding chamber. Eliminating the need to drill new holes for roll pins, etc. should you destroy a bearing housing.

18. Safety . . . At Bliss Industries, safety is a design element in everything we build. Neither Eliminator door can be opened in either direction before the standard equipment drive shaft locking device is engaged. The operator cannot enter the mill until the rotor has stopped. We stress the use of the safety micro switches on the doors to break the electrical starting circuit. We also recommend the vibration sensor switch.

19. Customer Designed . . . We have listened to our customers and their employees' on the weak areas of hammermills for many years before designing the dual-screen Eliminator hammermill. We have heard your suggestions on what you want and need. And sincerely believe we can increase your profits by helping to eliminate the difficult problems and excessive costs in hammermilling.

20. Magnets . . . Magnets are no better than the service they receive. So we designed a self-cleaning magnetic adapter that can be operated manually or automatically with an electric air cylinder. One control, manual or automatic, operates the magnets and tramp metal discharge gates.

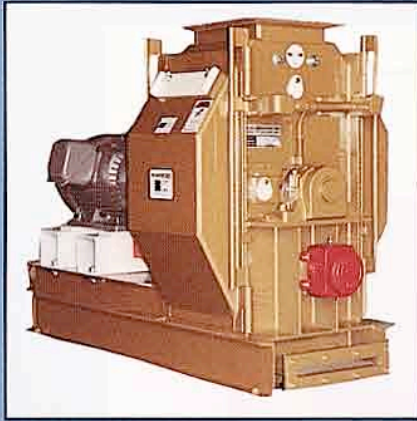
These can be stacked with only one air cylinder operating all functions, compared to a separate air cylinder for every function on other brands. The imagination is the only limit on where these can be installed.

21. Simplicity . . . Simplicity has no substitute – it decreases your electrical requirements, man hours, and excessive parts requirements. If you really want to cut your operating costs, try a Bliss Industries Eliminator customer-designed system.

————— BOTTOM LINE —————
COMPARE

Bliss Industrial

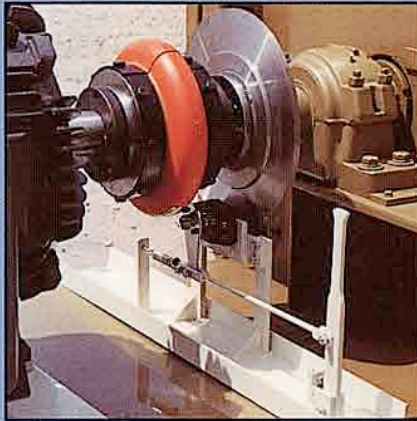
CUSTOM



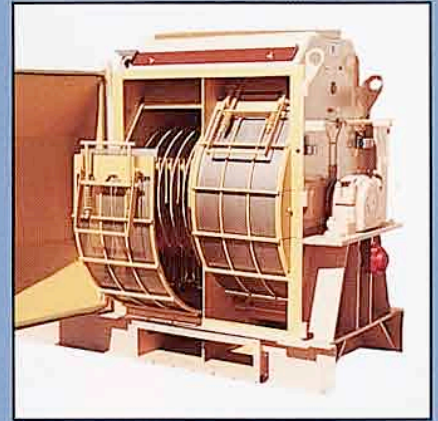
Sanitary Design - Available
on All Models



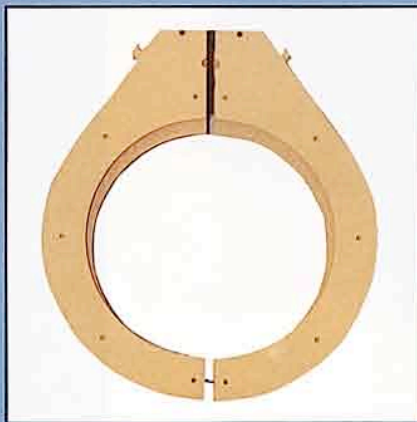
Sliding Doors



Manual Disc Brake - No More
Waiting to Stop the Rotor



Split Screen Design



AR Wear Plates

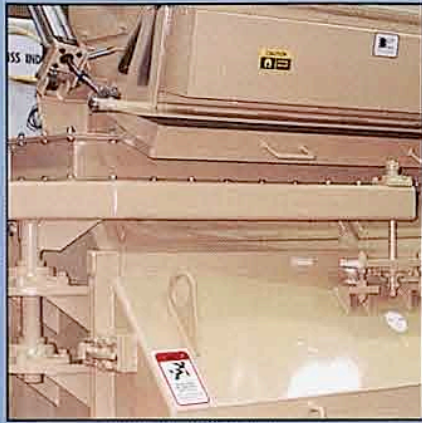


Variable Speed and Forced
Feed Screw Feeder

**Bliss Custom Features Designed
for Safety, Savings and Service.**

BETTER
UILT
Y
LISS

Custom Features



Swinging Doors



Automatic/Manual Self Cleaning
Magnetic Adapter



Laboratory Hammermill



Combo Rotary Feeder - Automatic
Self Cleaning Magnetic
Adapter 6" - 50" Wide



Air Syphon Feeder



Double Hump Automatic Self
Cleaning Magnetic Adapter

FEATURES

**We Maintain a Large Inventory of High Quality
Hammers, Screens and Other Spare Parts for
Your Convenience.**

Join Our Team

ADM
Alpo
Bay State Milling
Bil-Mar Foods
Bunge Corporation
Busch Agri Resources, Inc.
Cargill
Central Soya
Cereal Food Processors
Con Agra Inc.

Coors
Crete Mills
Doane Products
General Mills
Goldkist
Goldsboro Milling
Hyponex Corporation
IAMS
Moorman Manufacturing Co.
National By-Products

Pillsbury Company
Purina Mills
Ralston Purina
Riceland Foods
S.F. Services
Shawnee Milling Company
Southwest By-Products
The Quaker Oats Company
Tyson Foods
Weyerhaeuser



Industries Ideal for Using

BLISS **ELIMINATOR**
INDUSTRIES, INC. HAMMERMILLS

AG Lime	Cereal Grains	Fresh Tomatoes	Particle Board	Shells
Asphalt	Corn By-Products	Fuel	Pet Food	Spent Brewers Grain
Bakery Products	Corn Milling	Hay	Potting Soil	Spices
Beans	Feed Processing	Herbs	Reclamation	Soybean Processing
Cat Litter	Fish Food	Mulch	Rendering	Urea
Cedar Wood	Flour Milling	Oat Milling	Rice Milling	Wood Pellets
Cellulose	Foam Rubber	Paper	Salt	Wood Scrap

Ownership has its benefits

- Productivity • Energy Efficiency • Low Maintenance •

Factory Representative

BLISS
INDUSTRIES, INC.

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Ponca City, OK 74602 | Ponca City, OK 74601

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