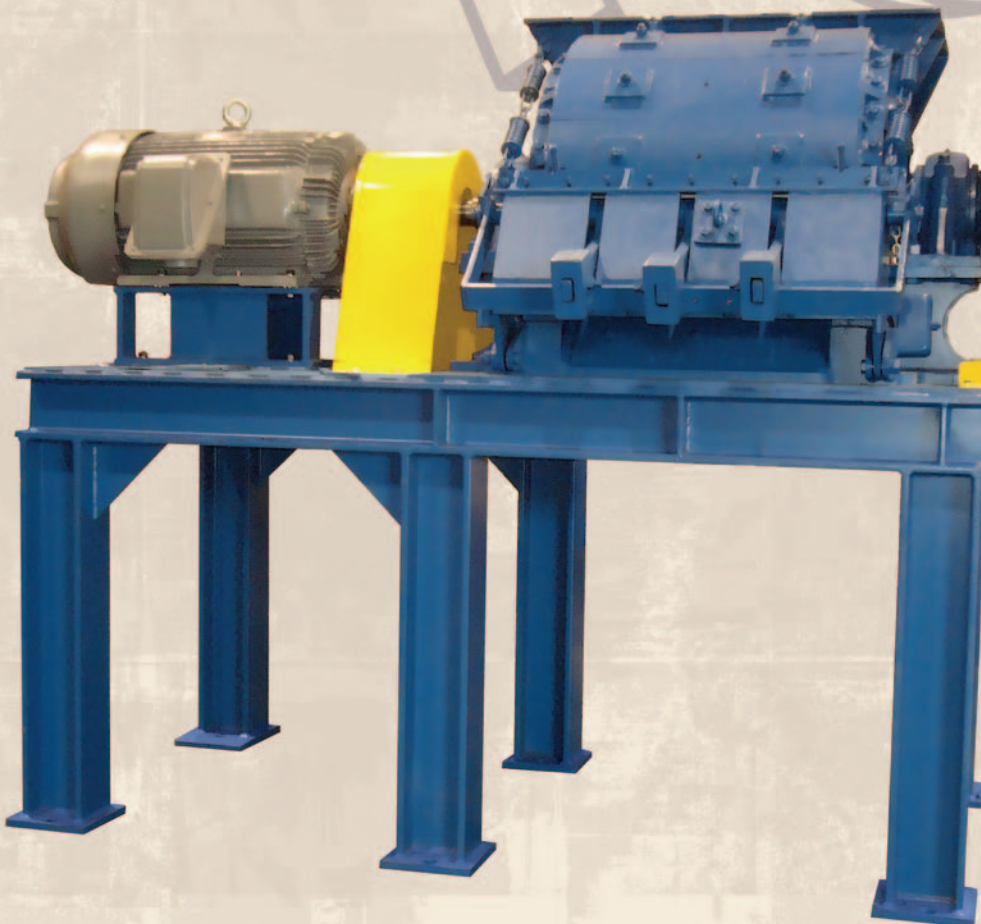


**American**  
**PULVERIZER COMPANY**

Quality & Service Since 1908

# **ROLLING RING METAL TURNINGS CRUSHERS**



For the Reduction of  
Metal Turnings to  
Shoveling Chips  
for Briquetting or  
Pneumatic Conveying

# Features & Benefits

*Why it will pay you to have our Metal Turnings Crusher in your plant*



For over 100 years American Pulverizer Company has pioneered in reducing metal turnings to shoveling chips. Throughout this period American has produced many important engineering advances such as the exclusive Rolling Ring Principle of crushing, the Shredder Ring, and the Automatic Apron for the ejection of tramp metal (see Construction Features on page 4 for further details).

The crusher is the heart of any chip salvage system. American Pulverizer's Ring Crusher is designed to quickly and economically reduce carbon and alloy steel, aluminum, brass, and bronze turnings to shoveling chips.

If your plant produces 20 tons or more metal turnings per month, there is an American Crusher model to help you realize new savings and greater profits in the sale of shoveling chips, reclamation of cutting oil, man-hours, factory space, and tool maintenance.

## **30 TO 50 GALLONS PER TON CUTTING OIL RECOVERY**

Crushed turnings release larger quantities of cutting oil in less time and are easier to handle in the chip wringer. Machine tool life is prolonged through a liberal use of the reclaimed cutting oil. Savings in cutting oil alone can pay for an American Metal Turnings Crusher.

## **FASTER HANDLING SAVES 75% STORAGE SPACE**

Long turnings can be hand or conveyor fed to the crusher and crushed chips can be handled in the conveyor or pneumatic system. Labor is at a minimum with a well designed chip system.

Chips require about 1/3 or 1/4 the storage space of long turnings. They are more easily handled, permit heavier loading of freight cars, and reduce shipping costs.



## **CASH IN YOUR CHIPS**

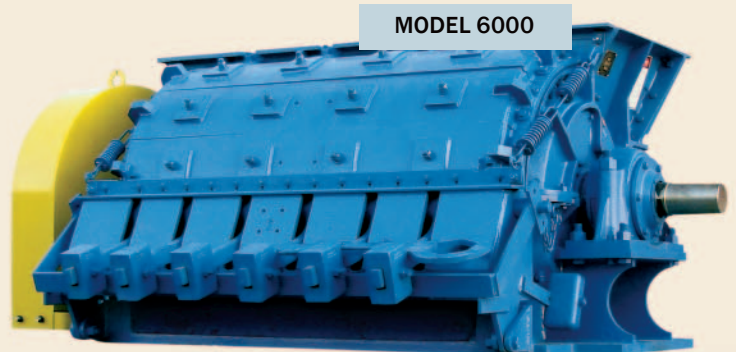
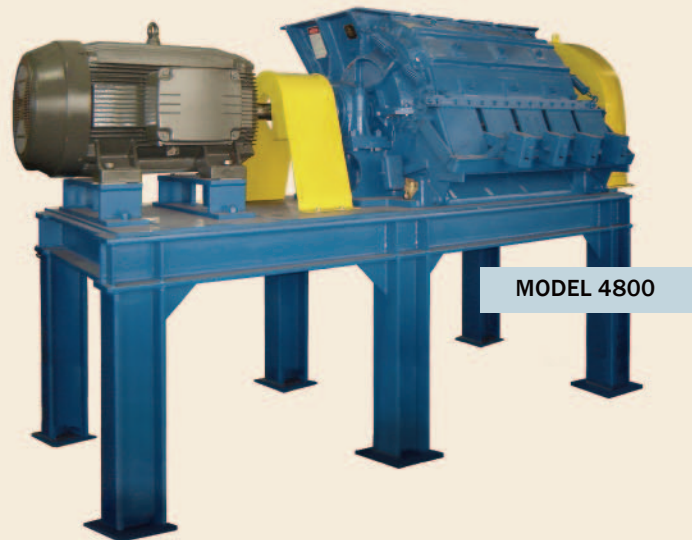
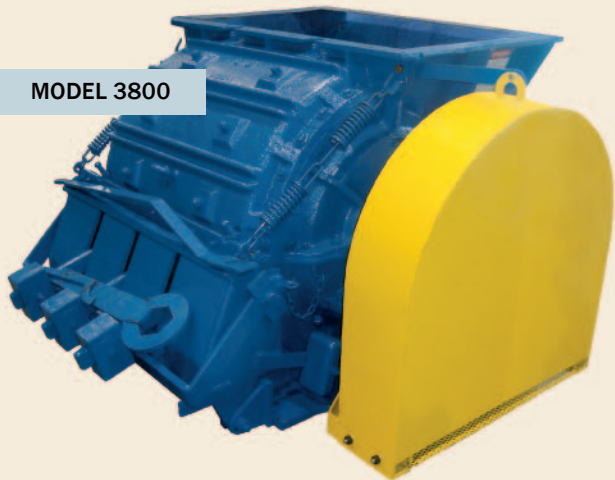
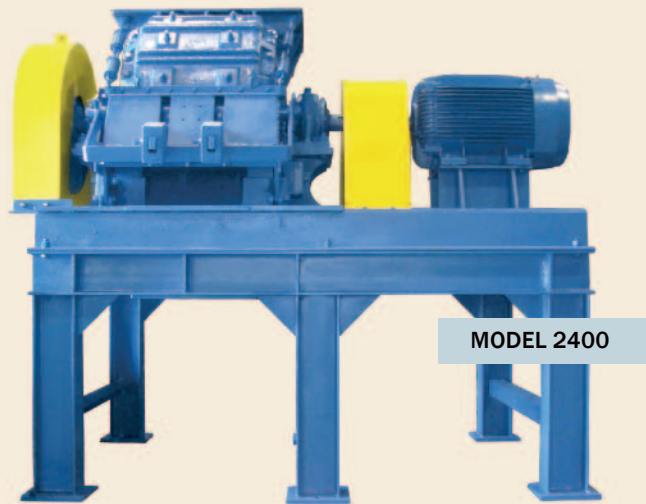
Shoveling chips command a premium price per ton above long machine shop turnings. They also offer savings in cutting oil recovery, storage, and handling.

## **BRIQUETTING**



Turnings can be crushed to produce a product for briquetting – an ideal charge for foundry and steel mill operations.

# *An American to Fit Every Production Need*



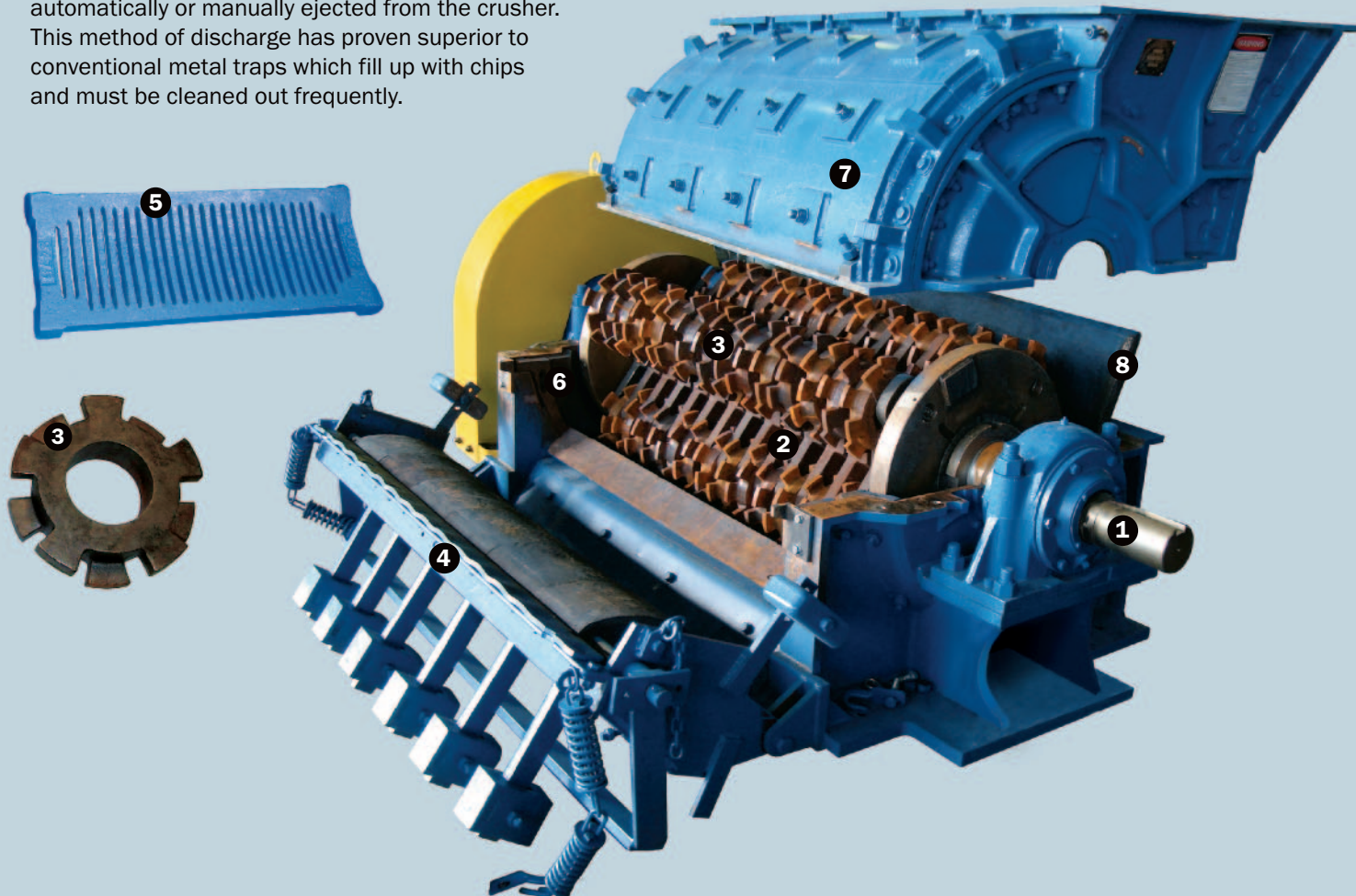
## CHIP WRINGING SYSTEM

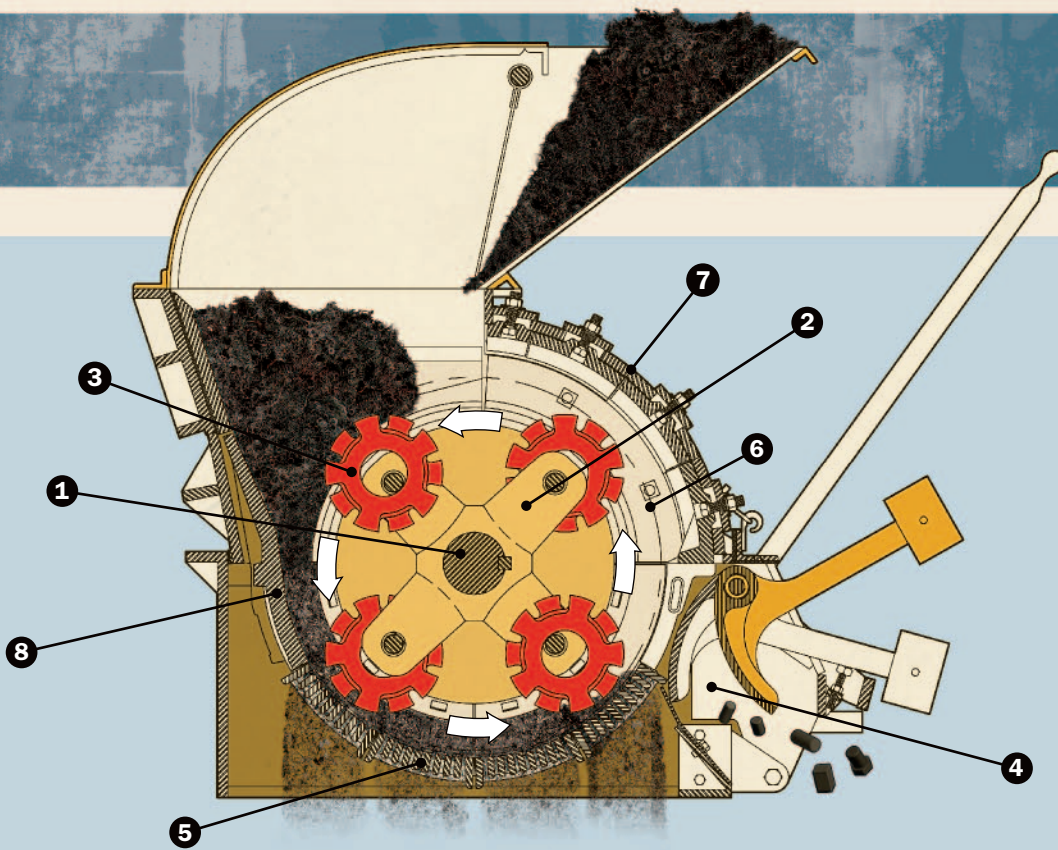
The wringing process produces dried chips which can be sold at up to 4 times the price of wet chips. It also recovers valuable coolants and oils.

# Construction Features

Worth looking into...

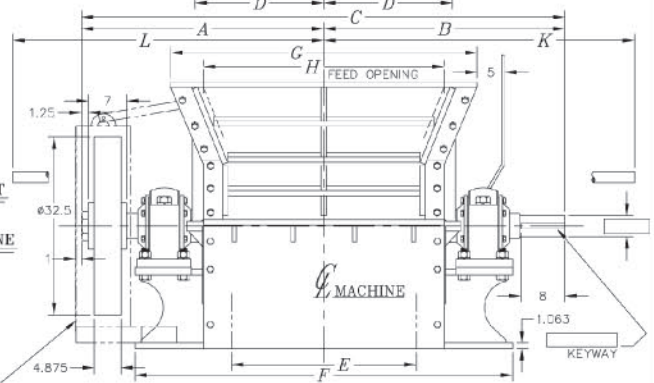
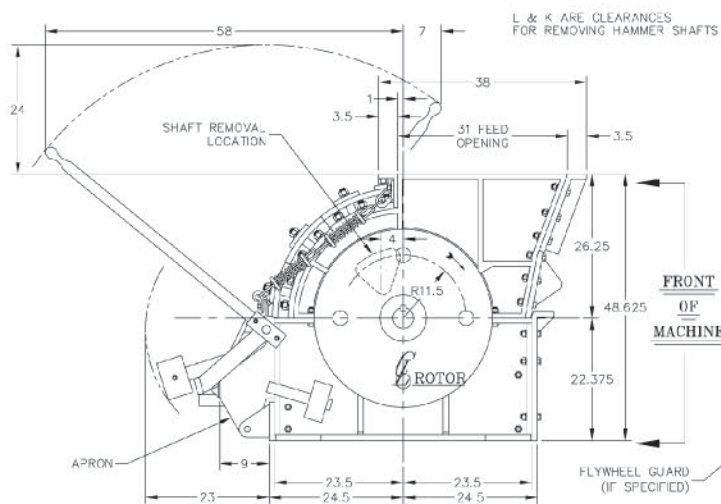
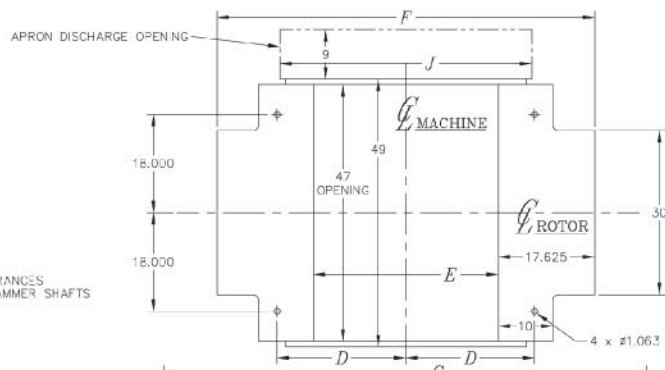
- 1 MAIN SHAFT** — Heavy heat-treated alloy steel shaft revolves on anti-friction bearings in dust-tight self-aligning pillow blocks.
- 2 CROSSARMS** — Carbon steel, keyed to main shaft.
- 3 SHREDDER RINGS** — Manganese steel casting. Each shredder ring is reversible and has 20 cutting edges. Installed in a staggered arrangement to cover entire width of machine. In operation, they are held in outward position by centrifugal force and reduce by impact rather than by sharpness. Each ring is free to swing out of position and pass over tramp metal. Rings are easily replaced through back of crusher. Ring supporting shafts are of high carbon steel.
- 4 AUTOMATIC TRAMP METAL DISCHARGE APRON** — Composed of individual alloy steel fingers which yield under pressure, permitting tramp metal to be automatically or manually ejected from the crusher. This method of discharge has proven superior to conventional metal traps which fill up with chips and must be cleaned out frequently.
- 5 MANGANESE STEEL PANEL GRATE BARS** — Heavy construction, deep cross-section, ribbed reinforced. Available in various size openings.
- 6 MANGANESE STEEL LINERS** — Completely lined crushing chamber assures minimum maintenance under the most severe operating conditions. Replaceable liners protect the housings from wear.
- 7 EASILY REMOVED ROUND TOP PLATES** — Provides quick easy access to crushing chamber without removal of feed connection such as hoppers and conveyors.
- 8 HEAVY MANGANESE STEEL COMBINATION BREAKER AND GRINDING PLATE**





DIMENSION CHART

LETTER	2100	3800	4200	4800	5400	6000	7200
A	38.25	44.25	47.25	50.25	53.25	57.75	64.25
B	38	44	47	50	53	57.5	64
C	76.25	88.25	94.25	100.25	106.25	115.25	128.25
D	17.5	23.5	26.5	29.5	32.5	37	43.5
E	21.75	33.75	39.75	45.75	51.75	60.75	73.75
F	57	69	75	81	87	96	109
G	44	56	62	68	74	83	96
H	37	49	55	61	67	76	89
J	34	46	52	58	64	73	86
K	43	61	70	79	88	101	121
L	63	81	90	99	108	122	142
TOP DRILLING DWG. No.	1060	982	2080	3070	A-1274	A-1202	A-9546



Clearance and Foundation Plan Drawing

# For the **BIG** Jobs

With capacities of 25 to 50 tons per hour

## MODEL 48 X 50

CAPACITY Steel Turnings thru 4" opening Grate bars - 25-35 TPH  
 APPROXIMATE H.P. .... 350-400  
 SPEED ..... 750-900 RPM  
 WEIGHT OF CRUSHER ..... 20 Tons  
 FLOOR SPACE REQUIRED ..... 8'6" x 10'  
 HEIGHT OF CRUSHER WITHOUT FEED HOPPER ..... 73"

## MODEL 60 X 50

CAPACITY Steel Turnings thru 4" opening Grate bars - 35-50 TPH  
 APPROXIMATE H.P. .... 400-500  
 SPEED ..... 700-750 RPM  
 WEIGHT OF CRUSHER ..... 31 Tons  
 FLOOR SPACE REQUIRED ..... 10' x 10'  
 HEIGHT OF CRUSHER WITHOUT FEED HOPPER ..... 90"

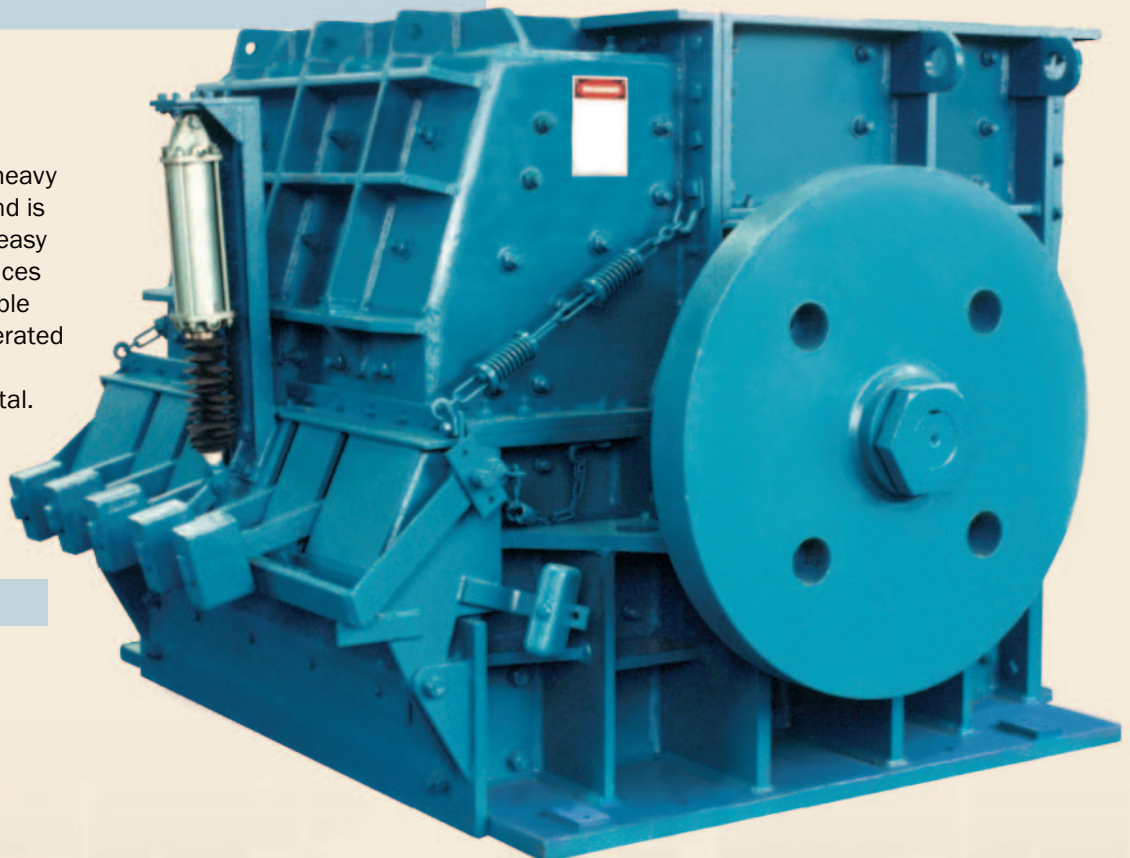
Both of American's heavy-duty crushers, the model 48x50 and the model 60x50, are designed for large volume, primary reduction of metal turnings and aluminum castings. These crushers reduce turnings of steel, aluminum and other metals as well as aluminum crankcases, pistons, beer barrels, and pots and pans. Unshreddable material is rejected by either an apron assembly or a ballistic feed hopper.

Excellent for scrap yards, large industrial plants, aluminum smelters and refiners. Steel turnings can be fed to these crushers by cranes using magnets or clam shell buckets, or by conveyors.

These crushers are built to do a big job. They are ruggedly built and have the provided mechanical features that have made American Metal Turnings Crushers the standard throughout the industry.

### HOUSING

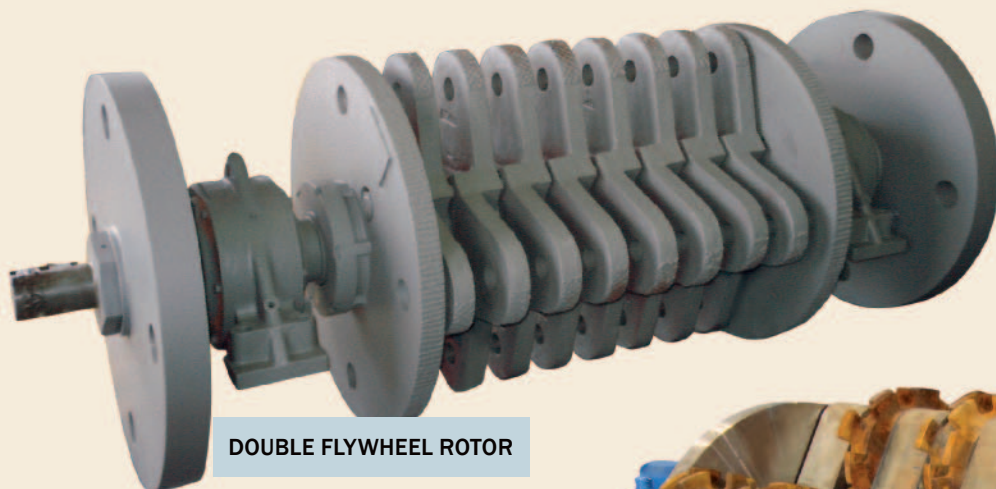
The housing is made of heavy plate steel weldments and is sectionalized to provide easy access. All wearing surfaces are protected by renewable liners. Pneumatically operated rejection fingers provide protection from solid metal.



MODEL 48 X 50

# Heavy-Duty Rotors

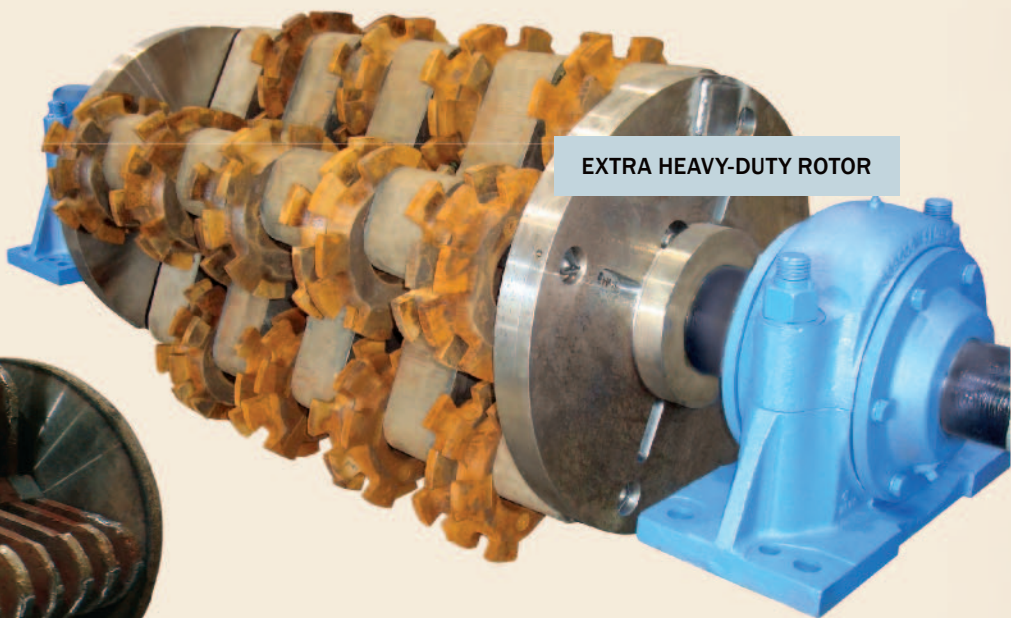
For any size job



DOUBLE FLYWHEEL ROTOR

## ROTOR ASSEMBLY

Rotors are assembled on a heavy heat-treated alloy steel shaft. The shaft revolves in heavy-duty, anti-friction bearings, enclosed in dust-tight steel pillow blocks. Twin flywheel available.

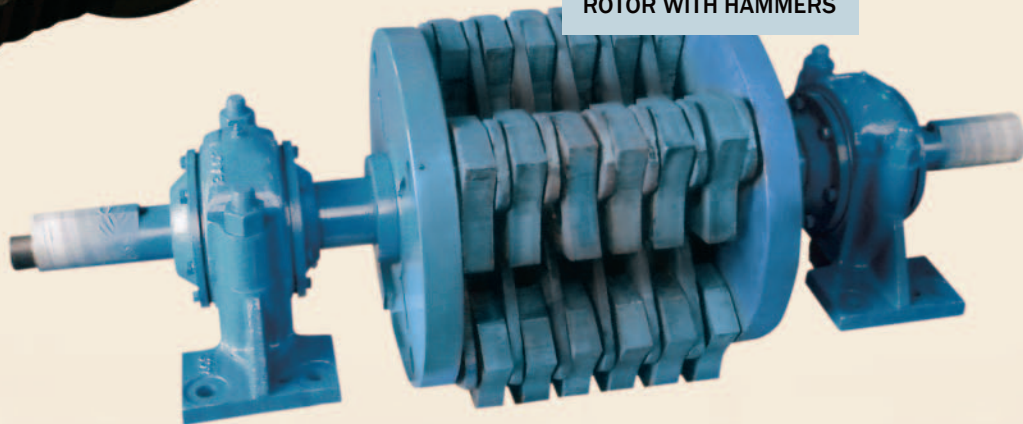


EXTRA HEAVY-DUTY ROTOR



ROTOR WITH HARDFACED END DISCS AND SPIDERS

## ROTOR WITH HAMMERS



## SPECIFICATIONS

Size	Approximate Capacity (T.P.H.)	Approximate H.P.	Speed R.P.M.	Weight Crushers Only (LBS)	Weight Crusher & Base Plate (LBS)	Base Plate Dimensions	Height with Hopper*
2400	2½-3½	50-75	900	10,000	12,000	108" x 59"	87⅝"
3800	5-7	100-150	900	13,000	15,300	132" x 59"	87⅝"
4200	6-8	150-200	900	14,500	17,100	144" x 59"	87⅝"
4800	8-10	200-250	900	16,000	18,900	156" x 59"	87⅝"
5400	10-12	250-300	900	17,500	20,700	168" x 59"	87⅝"
6000	12-14	300-400	900	19,000	22,500	184" x 59"	87⅝"
7200	14-17	350-500	900	21,500	24,500	197½" x 59"	87⅝"

\*Height depends upon type of hopper.

The above capacities are based on crushing average-run machine shop turnings to a "shoveling product" through 1-inch opening grate bars. Due to different sizes and characteristics of turnings, we recommend actual test method to determine machine capacities best suited for your need. Larger grate bar openings produce greater tonnage per hour. All models are available with a square type hopper or round type hopper. Special feed hoppers can also be furnished. If desired, any American model can be mounted on a structural steel base plate, complete with motor and flexible coupling—giving a compact unit.

### COMPLETE TECHNICAL SERVICE

Whatever your crushing or installation problem, the complete technical experience of American Pulverizer is at your disposal. There is a proper size American crusher to best suit your particular needs. Our engineers will gladly assist you in making a study of your operation and offering recommendations for your requirements.



*American*  
**PULVERIZER COMPANY**

1319 Macklind Ave, St. Louis, MO 63110  
Phone: 314-781-6100 • Fax: 314-781-9209  
E-mail: sales@ampulverizer.com  
www.ampulverizer.com

