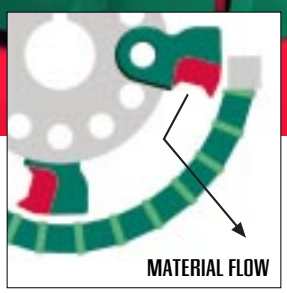
DURATIP™ Wood Hog Hammers

These unique replaceable tip hammers feature an innovative two-piece design that utilizes an exceptionally hard ULTRALLOY™ tip for excellent abrasion resistance, as well as a shank with metallurgy designed to withstand high shock loads.

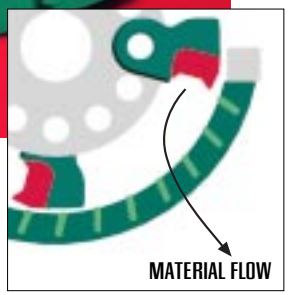
The new hammer shape improves shredding action by putting more weight at the head, and it maintains tip-to-screen grate clearance as the tip wears.

A specially designed bolt is anchored into the tip and fastened with a locking nut for easier replacement. Tips can be removed quickly with the hammers in place, using only a single tool to remove the nut from the rear of the hammer (no need to retain the bolt or access the hammers from the side). This feature eliminates costly downtime and improves productivity.

SLANT-FLOW™ Hammermill Screen Grates



Conventional Grate



SLANT-FLOW™ Grate

The newest revolution in shredding technology, the new SLANT-FLOW™ hammermill screen grates feature screen bars that are inclined for better alignment with the direction of material flow. This enables material to move through the hammermill more rapidly, which increases capacity and reduces wear. The inclined bars are fully supported by radiused blocks that conform to the contour of the machine. This construction provides a stronger grate than the competition.

The SLANT-FLOW™ grates also produce less dust (by improving airflow) and improve shredding action due to the angle of cutting. The hammers will last longer because of this improved shredding action and rapid evacuation of material, which reduces re-circulating load.

SLANT-FLOW™ grates are available for all sizes of hammermills.

For more information on any of our quality products, contact us or log onto our web site.

JEFFREY

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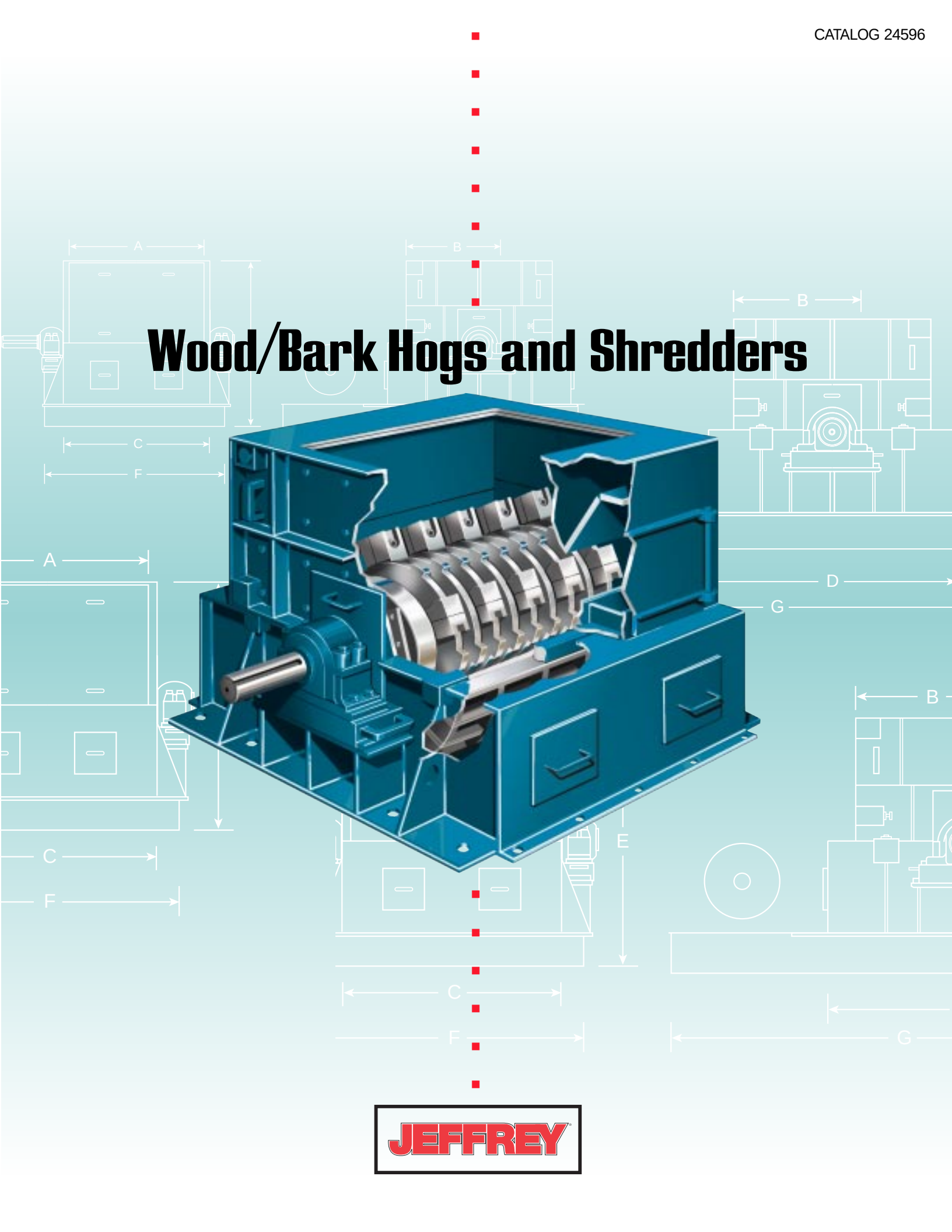
CATALOG 24596

Wood/Bark Hogs and Shredders



JEFFREY

Designed for More Profitable Operation

Engineering Features Increase Productivity, Provide Long Life, and Facilitate Easy Maintenance

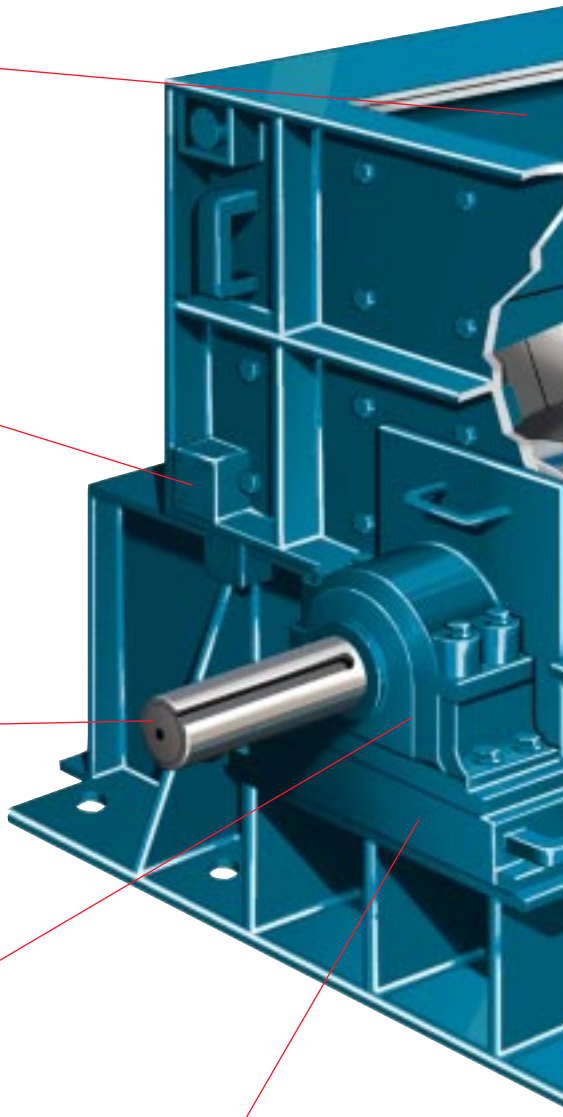
Alloy-Steel Liners
Drilled and tapped for easy replacement.

Adjustable Breaker Plate
Can be moved to compensate for plate wear. Assists with specific product sizing.

Drilled Rotor Shaft
Allows for hydraulic removal of bearings to keep downtime to a minimum.

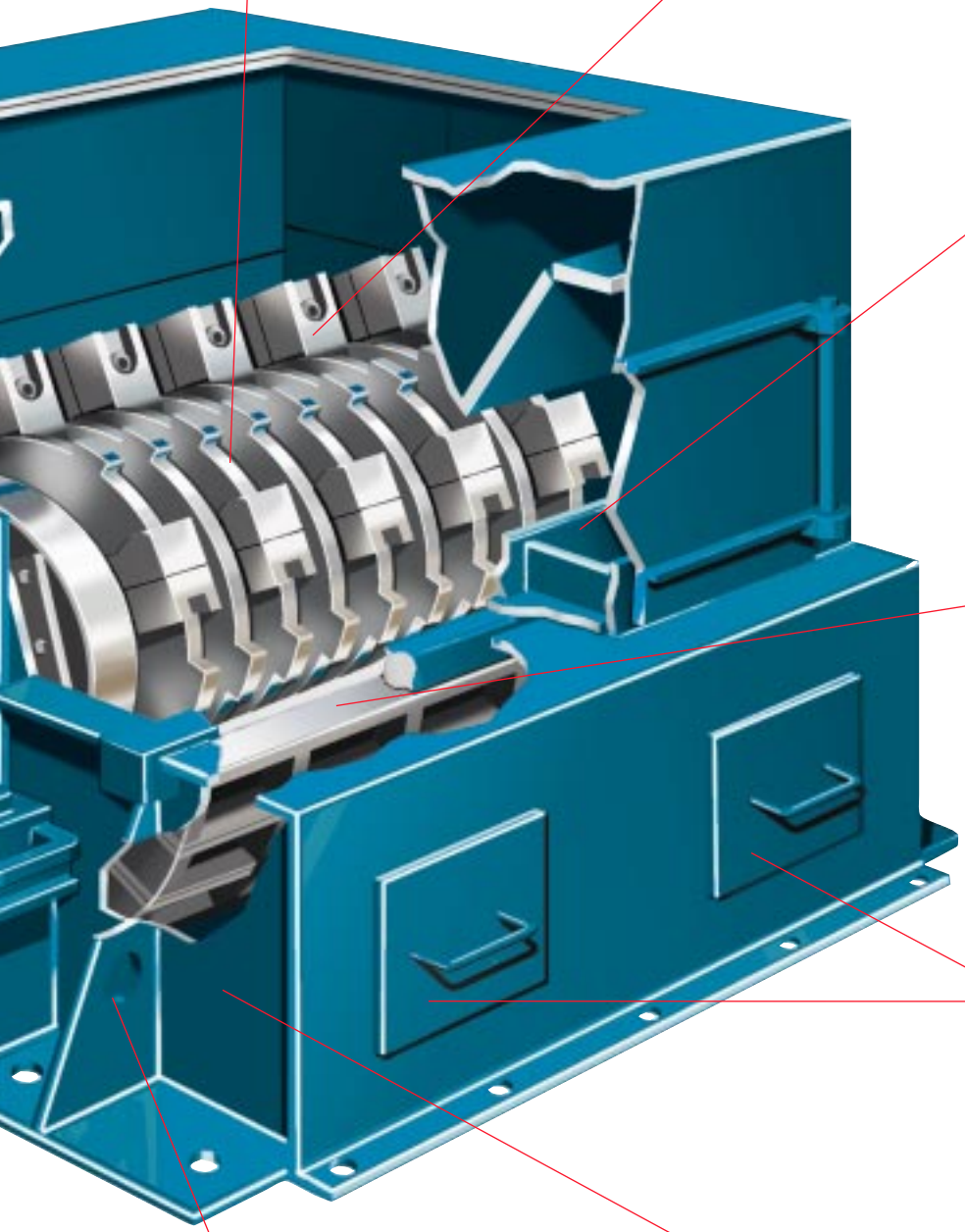
Double-Sealed Roller Bearings
Ensure long life and keep contaminants from entering bearings.

Bearing Fill Block
Allows service and removal of bearing housing without removing rotor.



Rugged Disc-Type Rotor
All wood/bark hogs include lugs on disc to assist with processing oversized pieces.

New Hammer Metallurgy and Design
Several choices are available, including the Jeffrey exclusive DURATIP™ with replaceable tips for easy maintenance.



Easily Accessible Metal Traps
Standard in every wood hog. Traps help to minimize damage when metal enters hog.

SLANT-FLOW™ Screen Grates
Provide maximum open area and assist flow of material through hog for optimum capacity.

Large Clean-Out Doors
Allow easy access to bottom of hog for scheduled inspections.

Extended Lower Housing
Provides a full 180° of screen grate area.

Rigid Frames
Constructed from heavy plate and reinforced to provide long service life.

WB Wood Hog Features Provide Long Life and Easy Maintenance

Heavy-Duty Rotor Design

The disc-type rotor is assembled on a high-strength, alloy-steel shaft and mounted in self-aligning spherical roller bearings in rugged steel housings. Rotor discs are designed to allow maximum flexibility of hammer arrangements. A 12-pin rotor can be set up with six rows of hammers for premium efficiency, when shredding to a smaller product size.

Heavy-duty lugs are welded on the WB rotor discs for additional shredding and to assist with oversized pieces. Hammer pins are drilled and tapped to provide assistance and minimize downtime during hammer changes. All rotors are dynamically balanced to ensure smooth operation and long bearing life.

Jeffrey wood hogs are available with a standard rotor or with our SS design for difficult applications. The SS rotor incorporates heavier hammers to process larger, heavier infeed pieces. Typically, the hammers in this rotor are twice the weight of our standard hammers. Along with the heavier hammers, the rotor incorporates a larger-diameter shaft, thicker rotor discs, and larger hammer pins. The swing hammer design, unlike solid rotors, helps minimize damage when uncrushable material, such as steel, enters the rotor circle.

Hammer Design

There are several hammer designs available for both our standard and SS design rotors. The newest and widely accepted hammer is our DURATIP™ high-alloy hammer. Its replaceable tip design features increased shredding action and quick change-out during maintenance periods. Other hammers include hooked and reversible hooked designs, which are available in both hard-coated and ULTRALLOY™ materials.

Hydraulic Bearing Removal

To substantially reduce maintenance time, the shaft is drilled for the hydraulic removal of the bearings. This, coupled with the housing's fill blocks, ensures easy bearing removal without removing the rotor from the machine.

Liners

All liners are manufactured from thick abrasion-resistant steel plate to protect the hog from high impacts and normal wear. Liners are drilled, tapped, and bolted from the outside. This eliminates bolt heads on the inside of the machine, where they can wear and break off.

Steel Housing

The rolled-steel, structurally reinforced housings ensure long-lasting durability. Each hog's fully lined interior guarantees that the housing will not wear from the inside when properly maintained. Doors on the upper housing provide access to the metal trap and to the interior of the machine.

Extended Lower Housing

Lower housing is extended to provide 180° of screen grate area. The extensive screen area reduces operating costs by allowing more open area in the machine, and it effectively discharges the material without causing a re-circulating load. Plus, the instances of plugging (from wet material) are greatly reduced.

Center supports are incorporated for the screen grates. This helps maintain their integrity, and reduces bending and breakage.

Screen Grates

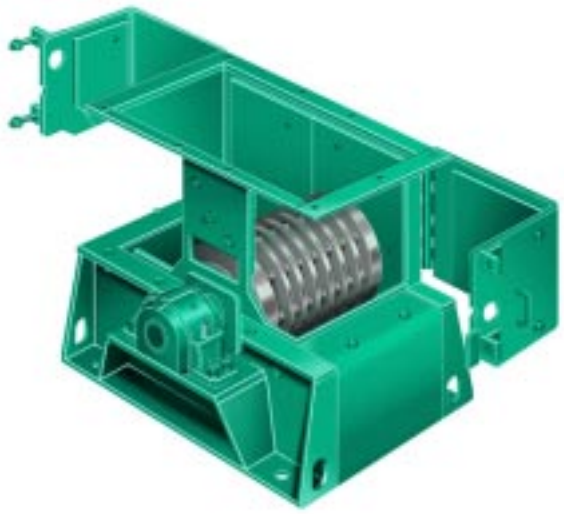
The SLANT-FLOW™ screen grates are unique to our wood hogs. Unlike conventional screen sections, the SLANT-FLOW™ design is angled into the flow of the material being shredded. This gives more shredding action and allows the material to evacuate faster from the machine. When the material is evacuated faster, the result is less wear on the screen grates and hammers, and a more uniform product size.

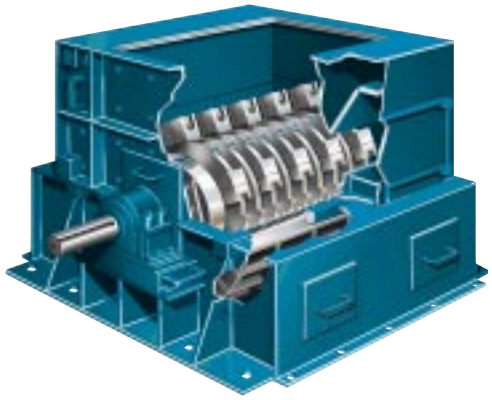
Screen grates are manufactured from heavy abrasion-resistant steel plate. The high hardness provides long life, especially in high-wear applications.

Tramp Metal Protection

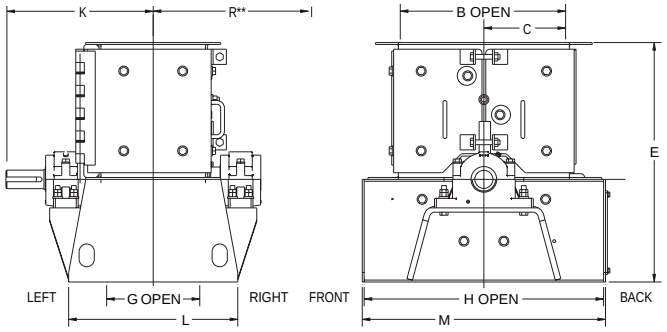
Every Jeffrey wood hog has an integral tramp metal trap. This trap effectively collects the odd pieces of smaller tramp metal that can damage your wood hog. The tramp metal pocket is located in the back of the machine. As tramp metal enters the hammer circle, the hammers lay back and carry the material around to and place it in the metal trap.

Dimensions and Specifications

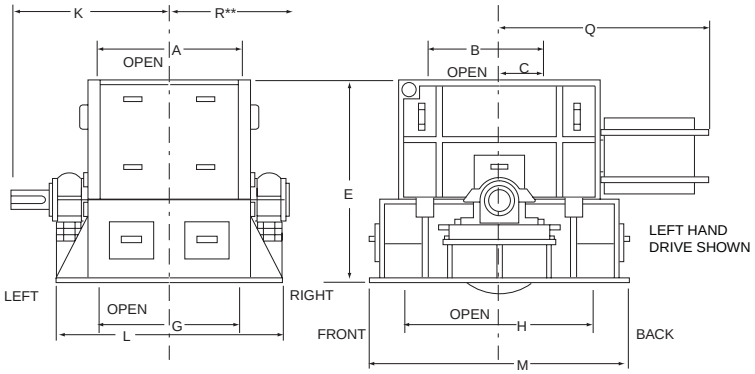




Mini-Mill™ and 30WB



34WB-79WB Hogs



Mini-Mill™ and 30WB are available in an easy-access configuration.

Small and Large Frame Wood Hogs*

Model Number	Unit Weight Pounds	Dimensions in Inches (Approximate)												
		Shaft Diameter	Rotor Size		Feed Opening		Discharge Opening		Height	Width	Length	C.L. to Shaft	Clearances	
			Diameter	Length	A	B	G	H	E	M	L	K	R**	Q
Mini-Mill	1,300	3	20	11	13	21	12	31	32	32	28	20	20	-
30WB	3,000	4	24	20	21	22	23	35	36	40	43	30	43	-
34WB	3,900	5	24	32	33	22	33	35	36	40	54	37	60	-
40WB	6,990	7	29	41	38	18	42	53	46	60	55	41	64	50
44WB	9,230	7	32	35	33	28	35	57	51	63	56	42	62	46
45WB	9,850	7	32	39	42	28	44	57	51	63	64	46	74	46
47WB	14,500	8	32	59	59	28	63	57	54	63	87	58	100	64
54WB	12,980	9	40	31	33	35	32	77	63	83	62	48	65	53
55WB	16,500	9	40	41	44	35	46	77	63	83	72	53	70	57
56WB	17,900	9	40	52	54	35	56	77	63	83	83	58	96	57
58WB	27,000	10	40	62	64	35	64	77	64	84	98	69	101	58
59WB	30,930	10	40	73	75	35	74	77	64	84	109	74	112	58
66WB	28,180	10	48	53	51	43	54	86	72	93	88	60	99	72
68WB	33,000	11	48	68	65	43	68	86	72	93	113	71	108	72
610WB	41,250	11	48	75	72	43	75	86	72	93	121	75	119	76
76WB	44,500	11	53	49	52	48	52	83	83	96	98	63	101	81
79WB	71,500	12	58	71	73	52	72	76	92	100	127	80	135	90

* DURATIP™ high-alloy hammers are available on 44WB through 610WB models.

** R = space required to remove hammer pins and/or breaker bar (non-drive side only).
Specifications subject to change without notice.

Type E Fine Grinders and Industrial Shredders

The Jeffrey Type E shredder is designed for reducing lightweight material to a small, fine-finished product. Finished products are typically 1/4", but can be less with certain materials.

Type E is available in both vertical and horizontal-feed arrangements. The horizontal-feed arrangement is typically used for lightweight, fibrous materials, such as fiberglass insulation.

When using Type E as a primary shredder, the unit can be set up with rigid-type hammers to give the rotor higher inertia to “pull” through the most difficult applications.

As a secondary shredder, the machine incorporates thinner plate-type hammers to increase the cutting action in the shredding chamber. Typically, in secondary applications, infeed piece size should not be over three inches. The smaller infeed size has a direct effect on the reduction ratio of the material, thus giving a better result and reducing machine wear.

Heavy-Duty Rotor Design

While the Type E Shredder typically uses a higher quantity of thinner rotor discs than a wood hog, the rotor is still built using Jeffrey's heavy-duty design. As a horizontal-feed machine, disc thickness is increased, and the discs are spaced farther apart, so heavier hammers can be installed.

The rotor incorporates a large-diameter alloy-steel shaft, mounted in spherical roller bearings in steel bearing housings. The bearing fill blocks can be removed to facilitate easy bearing replacement without displacing the rotor assembly from the housing.

Hammer Design

The swing hammer utilizes a plate design hammer, typically with hammer pinholes on each end. The dual hammer pinholes give the hammer the ability to be turned four times (four cutting edges), which reduces replacement and maintenance costs.

Rigid hammers can be supplied with up to six cutting edges. Rigid hammers are attached with two high-alloy hammer pins to ensure long wear life.

Discharge Media

Shredders can be supplied with a variety of different screens or screen grates. Screen grates are used to produce larger products, and they are manufactured from heavy abrasion-resistant steel. When producing finer products, we recommend the use of perforated plate-type screens, which can be supplied in a large variety of openings, open area, and construction material.

Housings

Housings are manufactured from heavy rolled steel plate. The interior walls are lined with abrasion-resistant steel liners, which are bolted from the outside for easy change-out and minimum maintenance time. The upper housing is a curved design that maintains tight tolerances (essential for fine grinding).

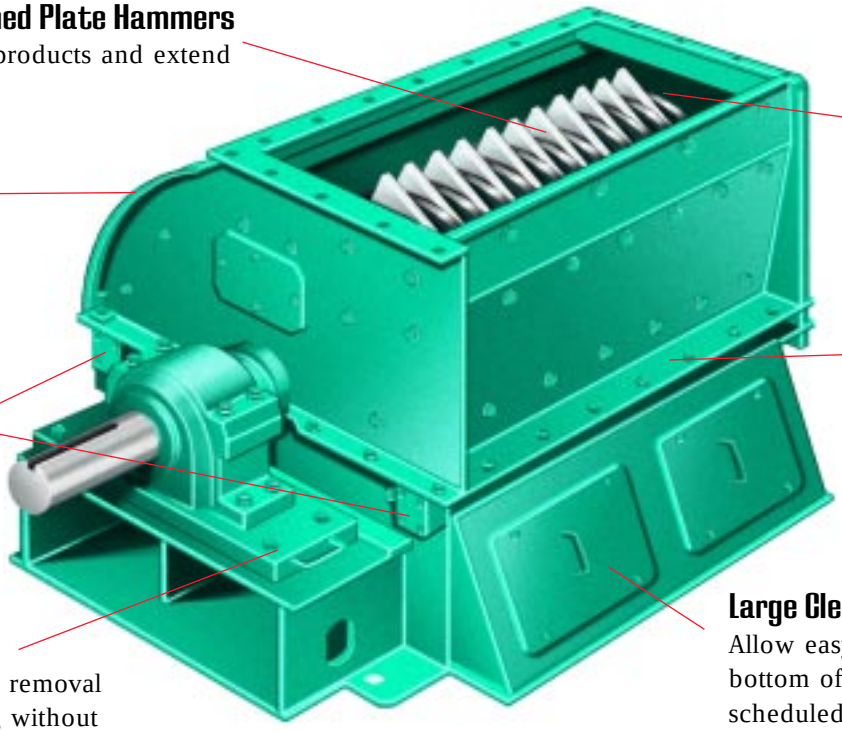
Type E Shredders Offer High Capacity on Light Material

Rectangular Hardened Plate Hammers
Deliver fine-finished products and extend hammer life.

Easy-Access Doors
Provide for cleaning and servicing.

Breaker Bars
Constructed of high-strength steel and through-hardened with four cutting edges for extended service life.

Bearing Fill Block
Allows service and removal of bearing housing without removing rotor.



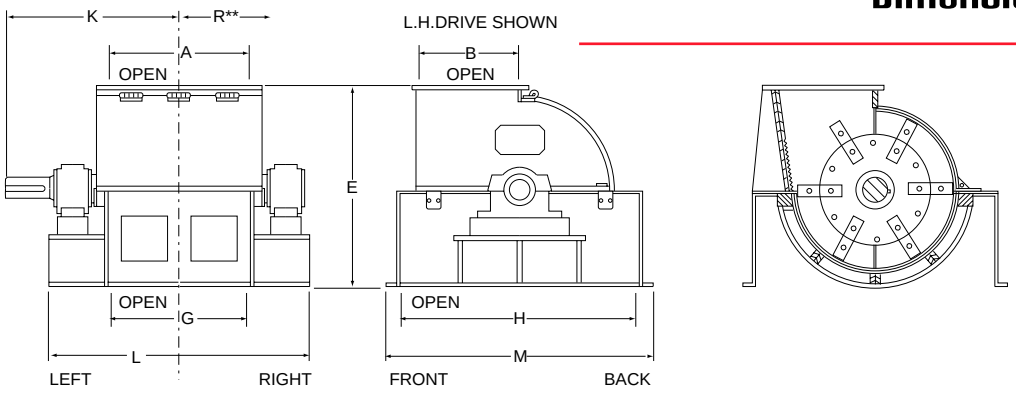
Alloy-Steel Liners
Drilled and tapped for easy replacement.

Screen Grates and Perforated Plate Sections
Available for various applications.

Large Clean-out Doors
Allow easy access to bottom of shredder for scheduled inspections.

Dimensions and Specifications

Type E Shredder



Model Number	Nominal Capacity TPH		Unit Weight Pounds	Dimensions in Inches (Approximate)											
	*Less Than 3/4"	*Less Than 1/4"		Shaft Diameter	Rotor Size		Feed Opening		Discharge Opening		Height	Width	Length	C.L. to Shaft	Clearance
					Diameter	Length	A	B	G	H	E	M	L	K	R**
4236	9	6	8,330	9	42	36	36	24	37	63	52	69	68	41	70
4242	10	7	9,600	9	42	42	41	24	42	61	52	69	74	48	78
4248	12	8	11,000	9	42	48	47	24	49	61	52	69	80	54	88
4254	15	10	12,500	9	42	54	52	24	53	60	52	69	87	58	120
4260	18	12	16,300	10	42	60	60	24	62	62	57	73	98	62	125
4272	20	14	21,450	10	42	72	71	24	73	63	57	73	110	66	135
4284	25	16	25,000	10	42	84	84	24	88	68	57	73	122	71	145
6460	27	18	32,300	9	64	60	60	25	60	95	80	102	88	55	96

* 90% passing screen opening.
** R = space required to remove hammer pins and/or breaker bar (non-drive side only).
Specifications subject to change without notice.