JEFFREY RADER
UNITED STATES • CANADA • SWEDEN

Chip-Sizer™

For cost-effective reduction of oversized wood chips for the pulp & paper industry.

Features/Advantages

Unique, Patented Design

The Jeffrey Rader Chip-Sizer, the first true no-knife rechipper, was pioneered in 1996 as a result of industry concern over the high maintenance cost of conventional rechippers.

At first look, the Chip-Sizer looks like a typical wood hog. While the operating principal is similar to a wood hog, the Chip-Sizer incorporates several special features and components.

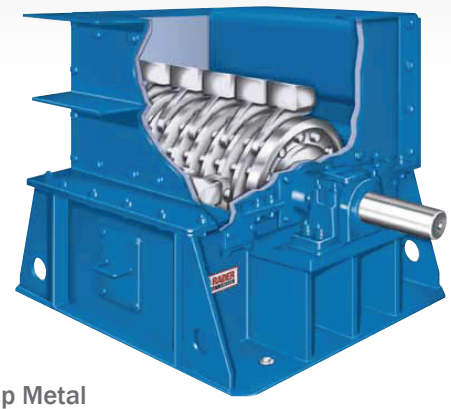
For example, the Chip-Sizer's hammers allow the unit to operate at speeds much slower than hammermills. They also offer a "soft touch" to the chips to minimize the creation of pins and fines. This, along with other patented components, permits the Jeffrey Rader Chip-Sizer to reduce oversized chips at unheard of efficiencies.

Technical Advances Minimize Downtime

- Large feed opening eliminates infeed plugging.
- Access door permits fast, easy servicing.
- Chipping hammers reduce downtime — there are no knives that require sharpening.
- Metal trap minimizes damage from tramp metal.
- Replaceable wear-resistant liners extend service life.

Cost-Effective Operation

- Low capital cost provides a rapid ROI.
- High recovery rates, typically 85-95%, increase profits.
- Efficient screen bar design produces a high percentage of accepts. Generally, the finished product goes directly to the accepts belt, thus eliminating a cyclone and increasing screen capacity.
- High-performance, double-row spherical bearings accommodate extra loads and produce smoother operation.
- Operational adaptability.



Tramp Metal

The inherent configuration and heavy-duty nature of hammermills means the Chip-Sizer has no knives to be destroyed by tramp metal. And, the Chip-Sizer's feed and discharge openings are large enough to prevent plugging.

Easy Maintenance

Routine maintenance consists of greasing the bearings and checking drive belt tension per the guidelines in the maintenance manual. It is also recommended to check the wear on the chipping hammers and screen bars 2 to 3 times annually.

High-Value Results in Processing Hardwood and Softwood

Results from numerous installations processing hardwood and softwood show that the percentage of oversize chips processed to acceptable chips is typically in the range of 85-95%. This value is so high that many producers are eliminating screening after the Chip-Sizer and feeding directly to the "accepts" belt.

A system using the Chip-Sizer therefore does not usually need a screen to recirculate overs. It also does not require an air handling system, since oversize chips are dropped vertically off a belt into the machine and discharged onto another belt.

Experience has shown that surge loads of up to double the machine's rated capacity can be accommodated without plugging.

CE compliance now available.

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JEFFREY RADER Chip-Sizer™

Features/Advantages (continued from other side)

Fast Payback

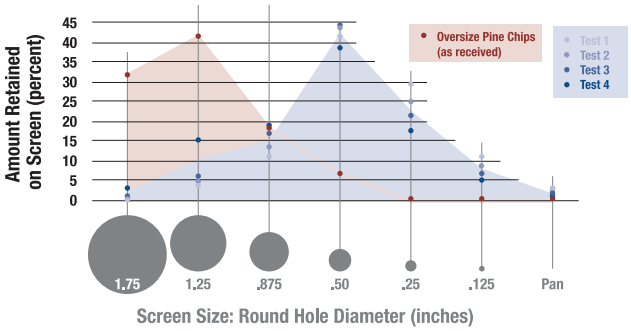
High recovery rates and reduced maintenance costs have generated significant improvements in profits for companies operating Jeffrey Rader Chip-Sizers. Furthermore, the lower capital costs yield very attractive returns on investment.

The Chip-Sizer tolerates knots, transitions, bark, bolts, pieces of machinery, rocks, and dirt.

ROI analyses have been done for many installations. Most payback periods have been less than one year with times as short as 3 to 6 months for new plants or those that do not have a conventional rechipper. Even in plants where existing rechippers were converted to Chip-Sizers, investment returns have typically been within the year.

Industry Acceptance

The Jeffrey Rader Chip-Sizer is the first of its kind in the chip market. With over 200 Chip-Sizers in the field today, this is the sizer that has proven it gives the highest recovery rates of "cookable" chips of any rechipper. Acceptance has been rapid and widespread, with numerous chip producers and multi-national pulp & paper companies installing our Chip-Sizer machines.

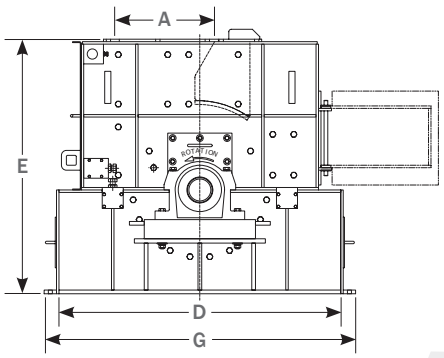


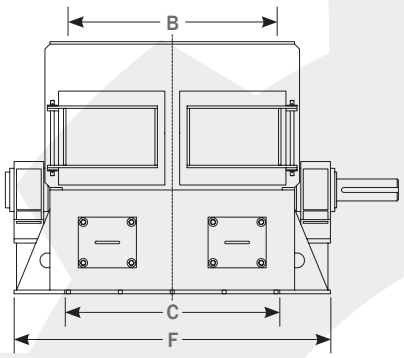
*This chart shows customer-provided chips **in red** (oversized) and the resizing results **in Tests 1-4** (each representing a different configuration of our Chip-Sizer).*

The Jeffrey Rader Chip-Sizer brought oversize chips into specification while minimizing pins and fines.

You can request a Chip-Sizer lab test on your material. *Fill out our online form or contact your sales representative. The Jeffrey Rader test lab offers a variety of set-up options along with a classifying screen so you know what you are purchasing before you buy!*

Dimensions and Weights





Models 30CS & 34CS have removeable rear door.

Models 45CS & 56CS have hinged rear door.

APPROXIMATE LAYOUT DIMENSIONS* AND SHIPPING WEIGHTS IN. (MM)

MODEL NO.	NOMINAL CAPACITY TPH	HP	FEED OPENING A	FEED OPENING B	DISCHARGE OPENING C	DISCHARGE OPENING D	OVERALL HEIGHT E	OVERALL WIDTH F	OVERALL LENGTH G	OVERALL WEIGHT LBS (KG)
30CS	3 - 8	50	8" (203)	21" (533)	27" (686)	35" (889)	36" (914)	42" (1067)	40" (1016)	3,250 (1,472)
34CS	7 - 12	75	16" (406)	33" (838)	34" (864)	35" (889)	36" (914)	55" (1397)	40" (1016)	4,000 (1,814)
45CS	22 - 40	150	16" (406)	42" (1067)	44" (1118)	57" (1448)	52" (1320)	64" (1626)	63" (1600)	10,000 (4,536)
56CS	40 - 64	300	22" (559)	54" (1372)	56" (1422)	77" (1956)	64" (1626)	83" (2108)	83" (2108)	18,500 (8,392)

**Certified drawings will be furnished for installation. Installation supervision is available.*

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