

Chip-Sizer™

No-knife resizer offers a “soft touch” to reduce the volume of pins and fines

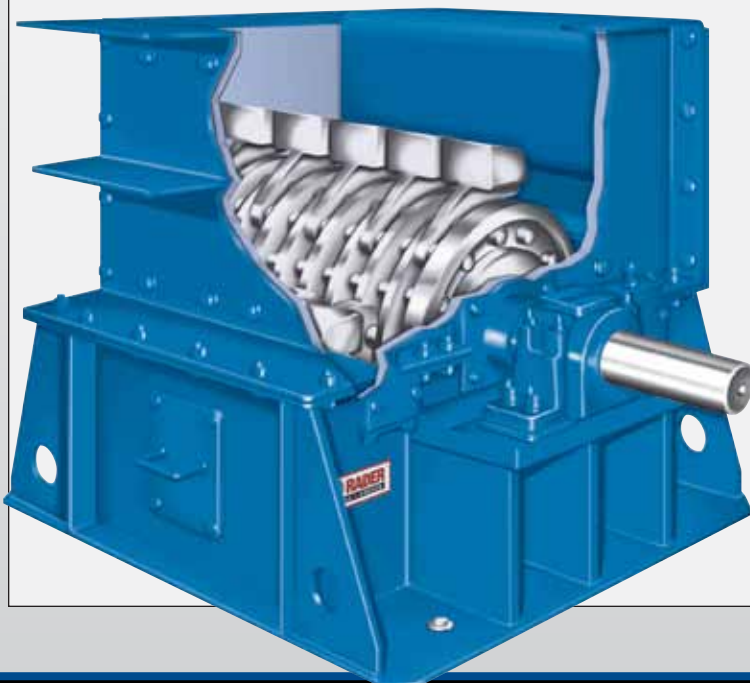
Delivers cost-effective reduction of oversized wood chips for the pulp and paper industry

The Jeffrey Rader Chip-Sizer was pioneered in 1996 as a result of industry concern over the high maintenance cost of typical rechippers. Jeffrey Rader is the first company in the industry to research and develop a true no-knife rechipper. Several designs were discussed and tested in our lab before determining that our current patented design would be best suited for the industry. The first unit was put into production in February of 1997 and quickly achieved results beyond anyone’s expectations. In 2004, Jeffrey Rader shipped its 100th Chip-Sizer.

Chip-Sizer design

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.

CE CE compliance now available.



The Jeffrey Rader designed Chip-Sizer hammer allows the unit to operate at speeds much slower than hammermills, and also offers a “soft-touch” to the chips to keep from creating pins and fines. This, along with other patented components, permits the 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.
- Ships complete with motor, drive assembly and base for quick installation.
- 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.

The Chip-Sizer feed and discharge openings are large enough to prevent plugging.



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

Easy maintenance

Routine maintenance consists of greasing the bearings and checking the tension on the drive belt per the guidelines in the maintenance manual.

It is also recommended that you check the wear on the chipping hammers and screen bars 2-3 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 86-95%. 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.

Fast payback

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

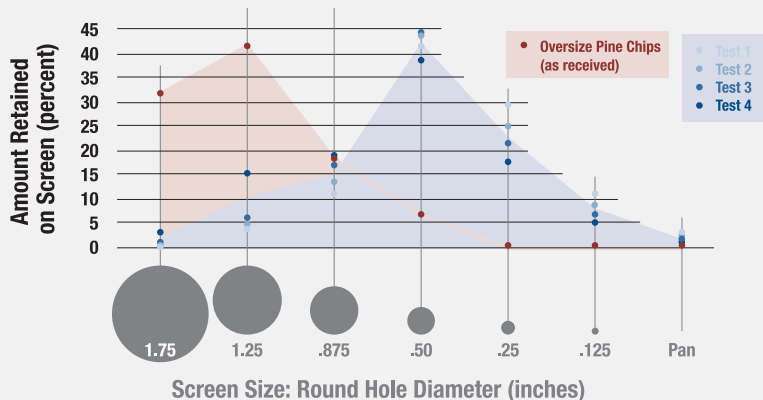
ROI analyses have been done for many installations, and most payback times have been less than one year. It is in the order of 3-6 months for new plants or those that do not have a conventional

rechipper. Even plants with rechippers have converted to Chip-Sizer and have returned their investments typically within the year.

Industry acceptance

The Jeffrey Rader Chip-Sizer is the first of its kind in the chip market. Today, with more than 100 Chip-Sizers in the field, this is the sizer that has proven it gives the highest recovery rates of "cookable" chips of any rechipper. Acceptance of the Chip-Sizer has been rapid and widespread, with numerous chip producers and multi-national pulp & paper companies installing our 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 oversized chips into specification while minimizing pins and fines.



You can request a free 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.



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