



# RaderWave™ Fines Screen

**Removes the maximum amount of troublesome fines while saving valuable fiber.**

## Features/Advantages

### A Technological Advance in Fines Removal

The RaderWave Fines Screen provides maximum fines removal while saving valuable fiber, even under fluctuation conditions. The unique sinusoidal (or wave-like) action of the RaderWave's Flexi-Dek™ screen mat allows fines to pass through and good fiber to move on. Plugging or binding is effectively eliminated, even with wet, sticky or snow-laden chips.

*The result is over 90% fines removal while retaining as much as 90% of valuable fiber.*

### A Unique Operating Principle

The RaderWave screen concept was born of experience and extensive research and development. A patent is pending on the uniqueness of its operation.

The RaderWave design consists of a series of parallel shafts located beneath a flexible perforated screen deck. When the shafts rotate, a wave-like motion is created on the screen media. As chips travel across the screen, the bed is accelerated vertically so that pins and chips are agitated, clearing the way for fines to migrate through the perforations for a cleaner end product. Acceptable fiber is continuously carried forward and passed over the end.

### Extraordinary Levels of Fines Removal and Pin Chip Retention

Results gathered from on-line mill testing of the RaderWave at full production rates show extraordinary levels of fines removal and pin chip retention. Harsh winter conditions had little impact on screen efficiencies.

All mill operation conditions vary and so will screen efficiency. A mill can expect efficiency levels comparable to what is reported in the test data, and far better than what can be achieved by any other method.

### A Screen That Cleans Itself Keeps Your Operation Running Smoothly

The constant flexing action of the Flexi-Dek screen mat helps prevent adhesion of wet or sticky



particles. In addition, the alternating wave motion slightly varies the perforation geometry, either accepting or rejecting near-size particles. When combined with the forces of high acceleration, blinding is eliminated. This self-cleaning feature is particularly beneficial in harsh climates where screen blinding or plugging has always been a problem.

### Designed for Ease of Installation, Reliable Operation and Low Maintenance

- A low-horsepower, variable-speed drive and motorized jacking system allows wave frequency and screen inclinations to be adjusted "on the run."
- A heavy-duty, high-torque cogged belt drive ensures reliability and eliminates the need for bothersome oil baths.
- The Flexi-Dek is a noncorrosive, high-density, high-strength material, formulated for maximum flexibility and long wear life.
- Flexi-Dek replacement is easily accomplished in two hours or less, which means very little downtime.
- Dust-tight construction provides for a clean work area.

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## Common Mill Problems ...

## Jeffrey Rader Solutions

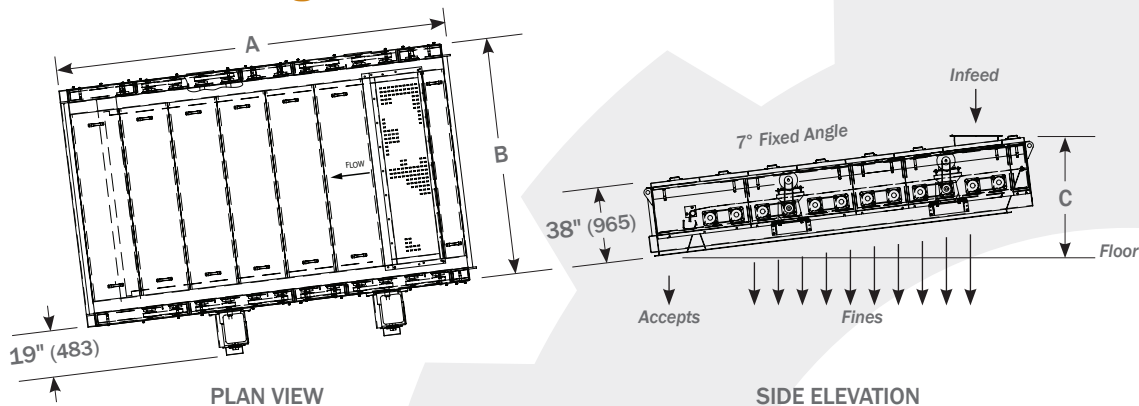
**Mill is experiencing blinding and plugging of their gyratory screen deck during winter months.**

*In many cases, a conventional fines screen will become ineffective during the winter when chips are wet and frozen. In extreme conditions, it's not unusual for a mill to bypass a gyratory screen entirely. A RaderWave Fines Screen will allow the mill to continue screening fines efficiently during these periods.*

**Mill wants to retain pin and thin chips and feels it is losing valuable fiber with their present fines removal system.**

*While some screens do a good job of fines removal, they often operate at the expense of fiber loss. Retaining pulpable fiber can pay big dividends, especially when a mill's wood costs are high. A RaderWave Fines Screen operates with a high degree of fines and grit removal efficiency with excellent good fiber retention.*

## Dimensions and Weights



APPROXIMATE LAYOUT DIMENSIONS* AND SHIPPING WEIGHTS					
ROLL	MOTOR	A	B	C	FT. IN. (MM) LBS (KG)
6 x 8	5 HP	12' 0" (3685)	8' 2" (2489)	5' 10" (1778)	10,000 (4536)
8 X 12	2 - 7.5 HP	16' 3" (4953)	10' 2" (3099)	6' 5" (1956)	14,000 (6350)
10 X 20	3 - 10 HP	24' 6" (7468)	12' 2" (3708)	7' 6" (2286)	18,000 (8165)

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

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