

# **Raditrim-K™** Secondary Knotter Screen

For efficient knot washing  
and high fiber recovery

*High-capacity screen  
with low maintenance  
requirements*



# Raditrim-K

## Secondary Knotter Screen

### Efficient Knot Washing

The Raditrim-K secondary knotter screen is a totally enclosed high-capacity screen for most efficient knot washing with excellent fiber recovery at low power consumption. It is designed to operate along with any type of primary knotter screen.

### High Washing Efficiency

Due to the optimized and functional design featuring a unique rotor, the Raditrim-K secondary knotter screen provides excellent knot separation at high operational reliability. The adjustable dilution ensures optimal washing efficiency in each section of the screen cylinder whilst the knots are continuously moved upwards towards the reject chute.

An intermittent junk trap at the bottom of the screen effectively collects and discharges coarse material, such as gravel and other debris. Depending on process requirements, the accept from the Raditrim-K secondary knotter screen can either be fed forward to the fine screening system or recirculated back to the primary knotter screen.

### Excellent Fiber Recovery Properties

The Raditrim-K secondary knotter screen provides a high knot reject consistency with lowest possible fiber content and knots that are immediately ready for further processing. This facilitates easy reject handling with less energy requirements.

### Low Maintenance Costs

The Raditrim-K's optimized design ensures easy access to exchangeable wear parts, which keeps downtime during maintenance to a minimum.

### Benefits



#### Low Power Consumption

- Optimized and functional design ensures low energy consumption at high operational reliability



#### High Fiber Recovery

- Efficient knot washing leads to considerable fiber savings



#### High Reject Consistency

- Easy reject handling with less energy requirements



#### Low Maintenance Costs

- Robust and optimized design
- Low maintenance costs



#### Trouble-Free Operation

- Smooth performance
- High runnability and maximum uptime

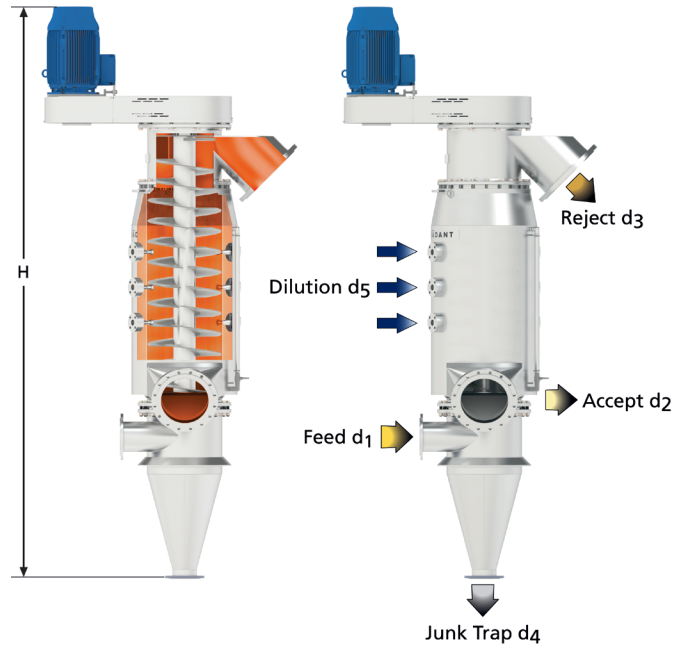


*Rejected knots - ready for further processing.*

# Functional design



Raditrim-K secondary knotter screen installation



Model Size	Height H		Feed dia d <sub>1</sub>		Accept dia d <sub>2</sub>		Reject dia d <sub>3</sub>		Junk Trap dia d <sub>4</sub>		Dilution dia d <sub>5</sub>	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
K 630	4 912	196	250	10	400	16	500	20	200	8	50	2
K 800	5 526	221	300	12	500	20	500	20	200	8	50	2

Specifications and information subject to change without notice. General dimensions and not certified for construction or installation.

The easily accessible slide bearing enables simple and time-saving replacement.



## Easy maintenance

Due to the aggressive production environment, the exposed components are subject to wear, and it is therefore important that they can be reached easily during maintenance.

The rotor can easily be lifted out of the Raditrim-K without having to remove the motor, and the screen cylinder is replaceable, which reduces maintenance costs. Since the lower bearing assembly is mounted directly on the rotor, maintenance can be performed most efficiently. This shortens downtime during maintenance considerably.





Raditrim-K secondary knotter screen installation

## Innovative Design

Highly efficient, discontinuous rotor blades enhance the knot treatment by promoting a smart recirculation of the knots. This way the knots undergo most efficient washing whilst they are transported upwards towards the reject chute.

The discontinuous rotor and a washing-free zone at the top of the screen contribute to a high reject consistency with lowest possible fiber content.

Designed almost vertically, the reject chute at the top of the screen ensures smooth reject handling, which prevents material build-ups.

## Certified Parts and Service 24 Hour Hotline for North America: 1-800-448-5422

For patent information about this and other Kadant products visit <https://kadant.com/en/patents>

# KADANT

[fiberprocessing.kadant.com](https://fiberprocessing.kadant.com) Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

North America, Central America, and Japan:  
**Kadant Black Clawson LLC**  
1425 Kingsview Drive  
Lebanon, OH 45036 USA  
Tel: +1-513-229-8100  
Email: [info@kadant.com](mailto:info@kadant.com)

China, Taiwan, and South Korea:  
**Kadant Fiberline (China) Co. Ltd.**  
STE 1960, Beijing Sunflower Tower  
37 Maizidian Street, Chaoyang  
District, Beijing 100125 China  
Phone: +86-10-65813011/12/13  
Email: [Marketing.KFC@kadant.com](mailto:Marketing.KFC@kadant.com)

EMEA, APAC, and South America:  
**Kadant Lamort SAS**  
39, rue de la Fontaine Ludot,  
B. P. 30046  
Vitry-le-Francois cedex 51302  
Phone: +33-26-74-80-80  
Email: [kadant.lamort@kadant.com](mailto:kadant.lamort@kadant.com)

**Kadant Noss AB**  
Malmgatan 25  
602 23 Norrköping, Sweden  
Phone: +46-(0)-11-23-15-00  
Email: [info.kadantnoss@kadant.com](mailto:info.kadantnoss@kadant.com)

Raditrim-K Secondary Knotter  
Screen  
©2024 Kadant Inc  
01/2024

## Smart Upgrade

The Raditrim-K secondary knotter screen is an ideal solution for a cost-effective replacement of outdated, inefficient secondary knotter screens. The ease of installation combined with a fast payback time makes it a smart choice for the benefit of the whole system.

## Engineered for great results



**Improved washing efficiency at high consistency**



**Virtually plug-free design**



**Washing-free top section for dryer reject**



**Replaceable screen cylinder for easy maintenance**



**Rotor easily accessible during maintenance**



**Smooth reject discharge through almost vertical reject chute**

## Clean knots increase your yield

The rejected knots are virtually fiber-free and can either be treated for further processing in the fiberline or returned to the digester for re-cooking. They can also be burnt and then serve as a valuable resource for energy generation.