

# FiberNET™ Pressure Screen

The multi-stage  
solution to fiber loss

*Efficient and controlled  
defibering, deflocculation,  
and deflaking in one,  
cost-saving unit*



# FiberNET Pressure Screen

## See What You're Missing

Historically, conventional fine screening systems lose 2 to 2.5 percent of production to the reject system, where up to half of that is valuable long fiber. The FiberNET pressure screen is designed to provide improved yield by reducing this fiber loss.

The FiberNET utilizes an enclosed drum-style rotor, which eliminates stringing issues associated with screening stock having high debris levels. The screen cylinder incorporates two cylinder sections which can be optimized separately for open area, slot size and profile angle. Small slots are used for system efficiency, and fiber savings are realized by reducing long fiber loss. By improving the screening system yield, the FiberNET provides substantial savings to the mill by reducing furnish and landfill costs.

In applications where high paper flake content is present, ID-4™ technology is used. This technology incorporates ID-3 with the addition of a hydraulic shear zone to defiber the paper flakes.

### Benefits



**Improved system efficiency running smaller slots with lower passing velocities**



**Maximum system fiber yield provided by two screening stages with dilution**



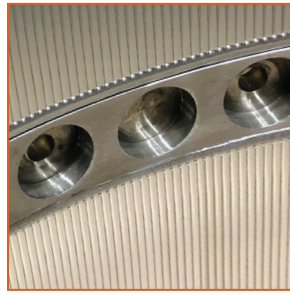
**Small, flexible footprint for easy installation**



**Low maintenance, corrosion resistant stainless steel for all wetted parts**



**Low capital cost and reduced landfill expenditure**



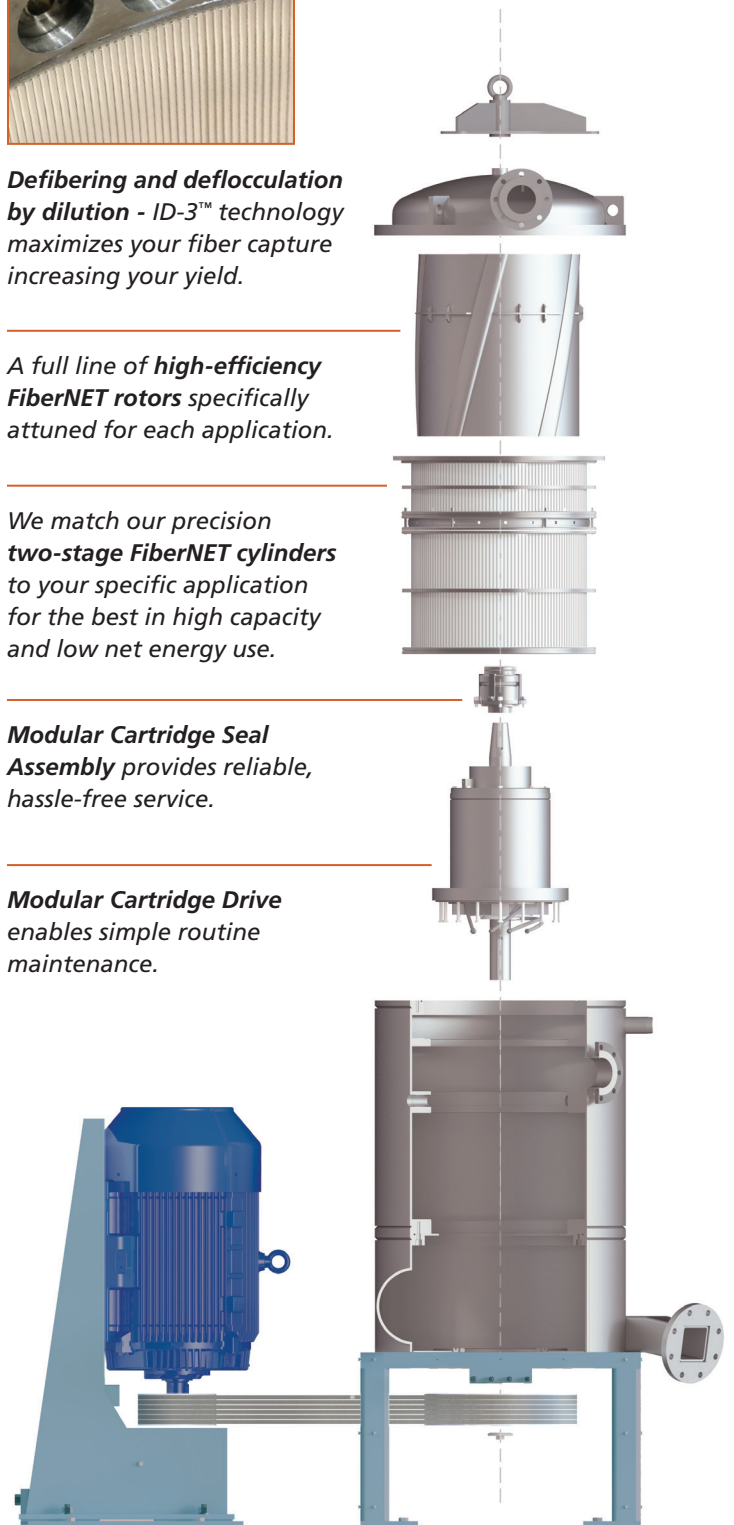
*Defibering and deflocculation by dilution - ID-3™ technology maximizes your fiber capture increasing your yield.*

*A full line of high-efficiency FiberNET rotors specifically attuned for each application.*

*We match our precision two-stage FiberNET cylinders to your specific application for the best in high capacity and low net energy use.*

*Modular Cartridge Seal Assembly provides reliable, hassle-free service.*

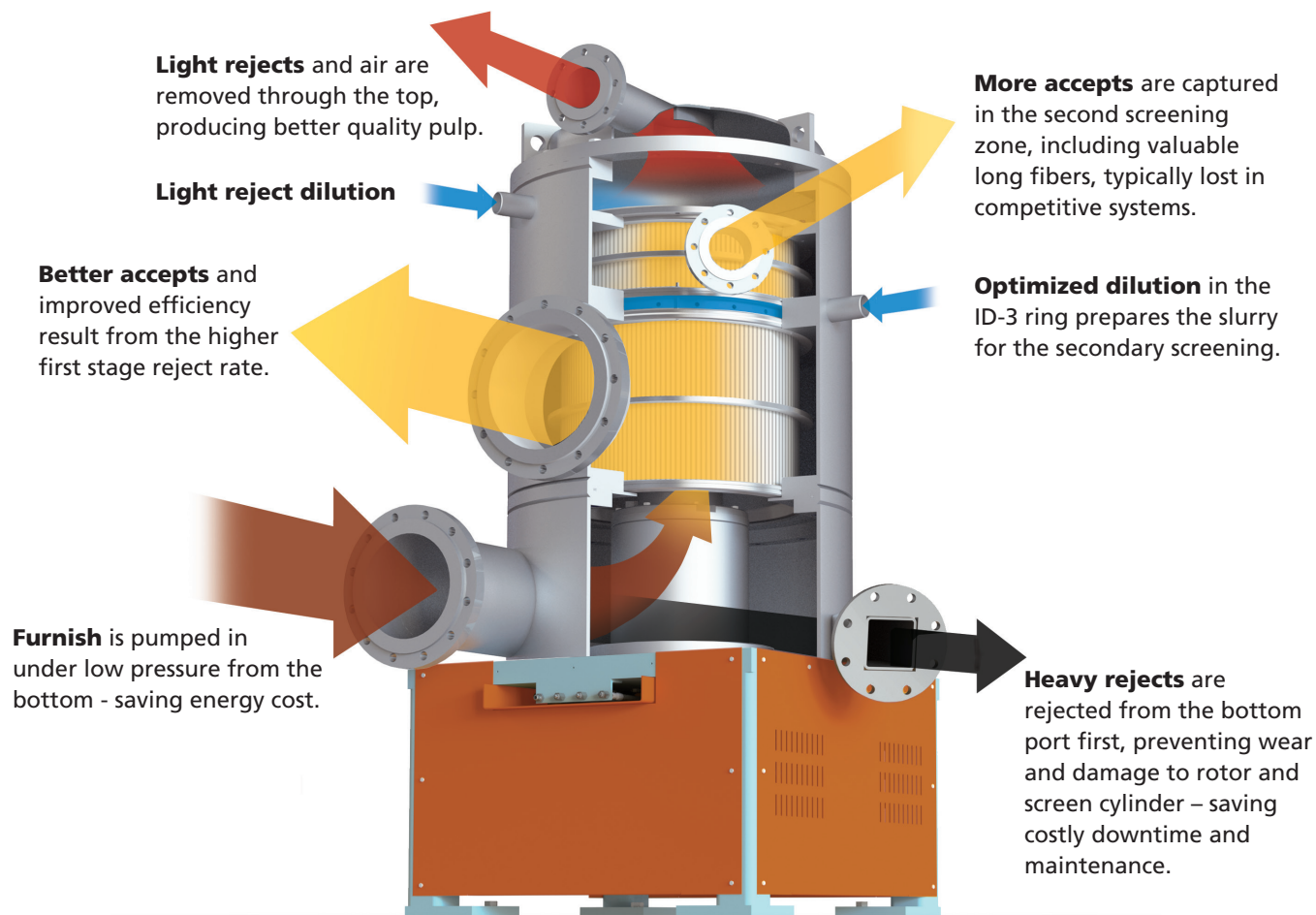
*Modular Cartridge Drive enables simple routine maintenance.*



**Get Even More with BoostTEK™**  
Optional BoostTEK performance technology lowers energy consumption, and can provide significant fiber yield improvements.



# Captures valuable fiber others simply miss



## In Action

To capture fiber that is typically lost in single zone systems, the FiberNET incorporates two screening zones with Kadant ID-3™ technology for maximum fiber recovery. The ID-3 cylinder and rotor work together to increase the active area of the screen cylinder surface, creating more consistent flow through the screen cylinder. This allows the use of smaller slots and lower actual passing velocities to increase screening efficiency.

Stock enters the **first screening zone** through the inlet and travels between the rotor and cylinder. The inlet chamber is equipped with a **heavies reject outlet** to collect and discharge heavy debris before it ever enters the screening zone, protecting the cylinder and rotor from damage.

Rejected slurry from the first screening zone is channeled into the **ID-3 ring** where dilution is added. The diluted and re-mixed stock moves into the **second screening zone** where remaining fiber is accepted. Further dilution is added to transport a concentration of light debris and unwanted air from the unit.

## In Application

- Fiber recovery systems
- Stock preparation, pulp mill, and approach flow
- Coarse and fine tailing screen positions

The Kadant FiberNET pressure screen is used primarily as the final stage of screening in a fine screen system.

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**Yield-increasing efficiency  
and cost-saving flexibility**

## A Trusted Partner

Stock preparation is in our DNA. We know this industry like few others – your equipment, your processes, and your challenges. We have the know-how and tools to elevate the efficiency of your production. Our team can help monitor, maintain, and upgrade your line, providing process improvements, replacement parts, rebuilds, and comprehensive maintenance plans.

We understand what it takes to remain competitive, protect your investment, and extend the life of your stock preparation assets. To that goal, we offer:

- Field services, inspections, and audits
- Rebuilds and retrofits
- Upgrades and modernizations
- Maintenance and service contracts
- Process control solutions
- Replacement upgrades and spare parts

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

## Expertise to Empower You

Our team is there for you at every step. We help you select the right options to best meet your specific needs.

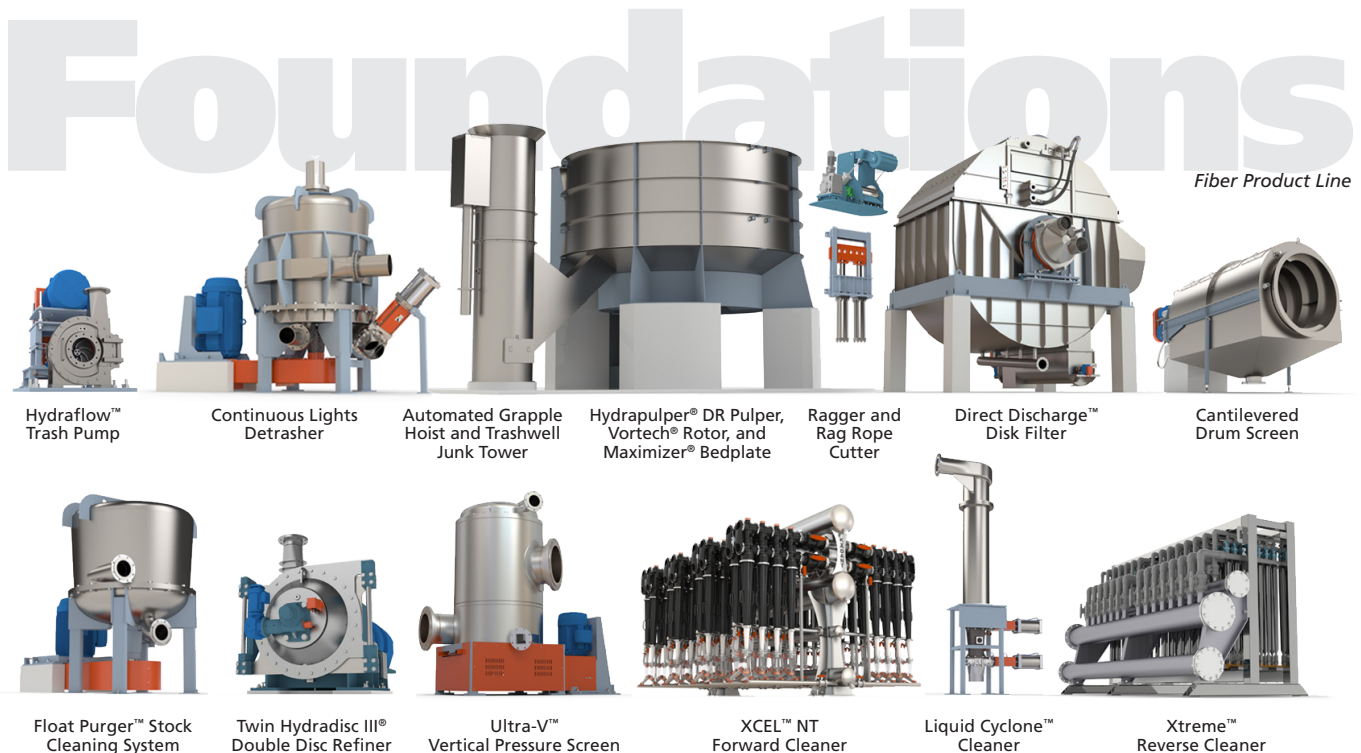
We have generations of experience, a history of innovation, and a proven record of success across the globe. Our skilled engineers, process professionals, application experts, manufacturing, and field service teams have thousands of successful installations to their credit.

## Get You Running, Keep You Running

Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

- Pulping
- Screening
- Cleaning
- Thickening
- Deinking
- Detrashing
- Refining and dispersing
- Reject handling
- Recovery systems
- Heat transfer
- Pulp washing
- Recausticizing

The Kadant **Foundations** product line offers a full range of fiber processing equipment and services.



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.

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FiberNET Pressure Screen  
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06/2024