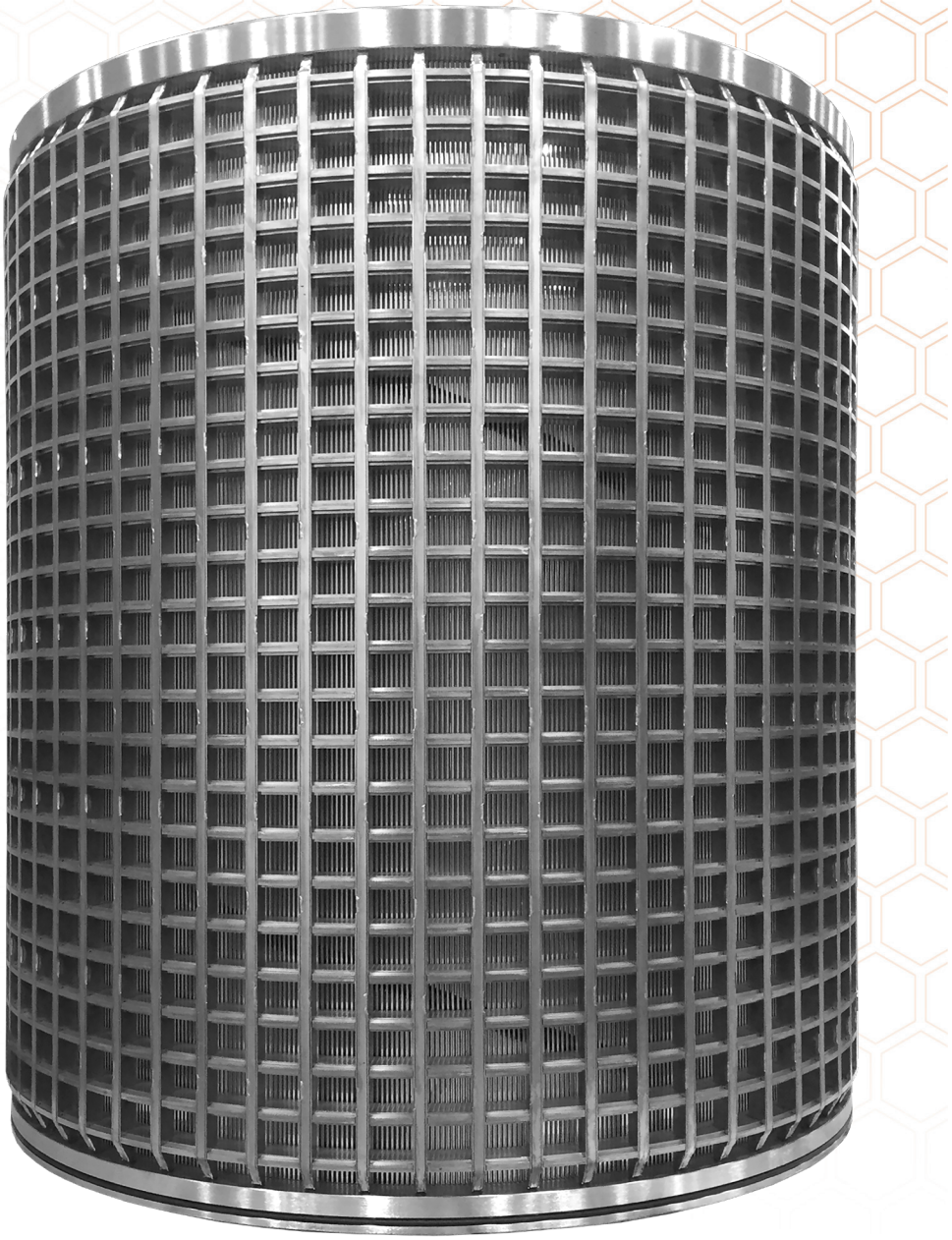
KADANT

FIBER PROCESSING

FibreWall™ Screen Cylinders

High-Efficiency Screening

Effective ministickies removal for deinking and OCC lines.



FibreWall™ Screen Cylinders

Applications

FibreWall wedge wire cylinders are designed to achieve high efficiency screening of recycled, mechanical, and virgin fiber. The patented design features a robust mechanical assembly and a high-precision wire positioning system to minimize slot width deviation.

FibreWall features:

- Mechanically held wires, precision-built in the round
- Rugged, high mechanical strength for use in the most demanding conditions
- Available for outward and inward flow screens
- Precise slot-width tolerance with slot sizes 0.004" – 0.030" (0.10 mm – 0.76 mm)

Benefits

- **High shive and stickies removal efficiency**
- **Highest open area for maximized flow capacity**
- **Stainless steel construction and strong frame design for extended operating life**
- **Application flexibility designed for coarse, fine, and approach flow screening systems**

Outward flow cylinder

Inward flow cylinder

"We have run the FibreWall cylinder for three years without any breakages. We were extremely impressed by the performance on stickies removal. Our efficiency went from 60% to more than 90% on average."

Recycle Superintendent, DIP mill, USA

Reliably accurate high performance

Precise construction

The FibreWall cylinder is a fabricated wedge wire cylinder made without structural welding or rolling processes. The wire clamping is done mechanically using an innovative process that eliminates welding and other processes that can permanently deform the cylinder shape.

Because the cylinder is not rolled, it offers excellent roundness with no distortion. This allows for uniform spacing between the cylinder and the rotor, providing optimum screening performance. The cylinder also offers dimensional stability over time due to the absence of residual stress caused by welding or rolling.

Optimum screening performances

Based on extensive field trials, FibreWall cylinders outperformed competitive cylinders in the removal of debris. As shown below, the Fiberwall's increased efficiency includes the reduction of deformable contaminants such as stickies by two to four times that of other wedge wire cylinders operating under similar conditions.

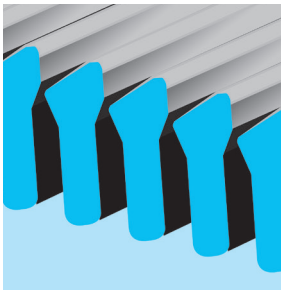
Exceptional repeatability

The unique manufacturing process and technology make it possible to precisely replicate an original FibreWall cylinder – including slot width down to the micron. This assures that replacement cylinders will be identical to the original in fit, form, and performance.

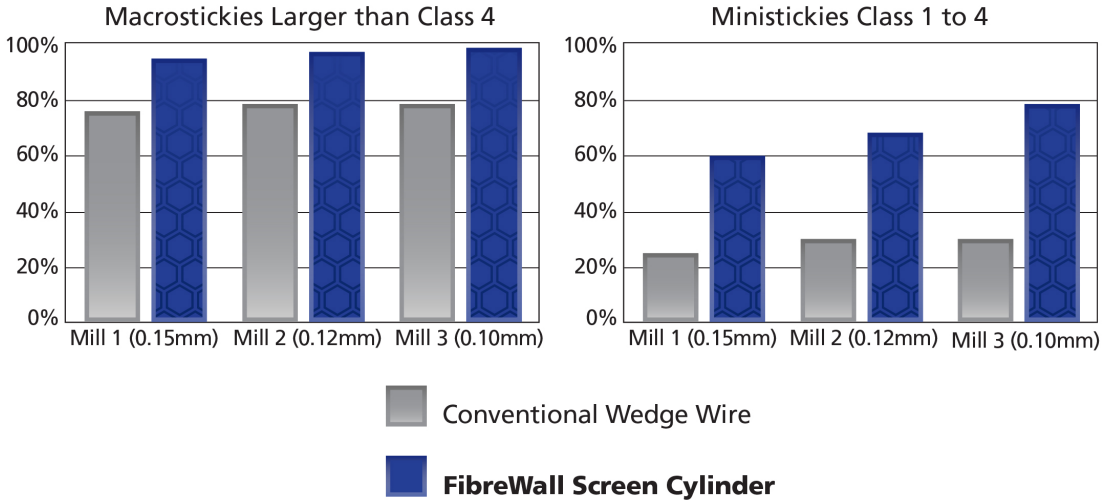
Flexibility

With conventional cylinders, the size and type of wire determines the profile depth and the amount of slots per inch (or pitch). The FibreWall cylinder has the unique advantage of tilting the wires to get the required profile depth without affecting the strength of the cylinder.

As a result, the profile depth of the FibreWall cylinder can be optimized for your specific application to get the best screening efficiency. This feature also provides optimal fractionation when desired.



Stickies Removal Efficiency



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 processes.

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

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Expertise to Empower You

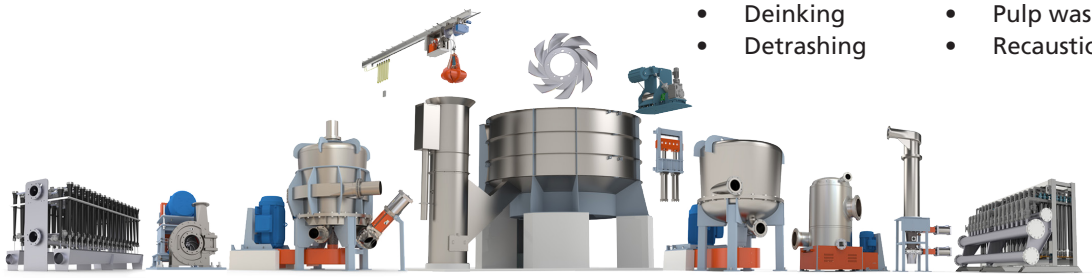
Our team is there for you at every step. We help you select the right options to best meet your specific needs.

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



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

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

Foundations

Fiber Product Line

Our Application Engineers will help you choose the right screen for your application.

KĀDANT

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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FibreWall Screen Cylinder

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