FibreWall™ Screen Cylinder
High-Efficiency Screening

Accurate, repeatable, high performance.

Effective ministickies removal for DIP and OCC lines.
**Unique construction**
The FibreWall cylinder is a fabricated wedge wire cylinder made without structural welding or rolling processes. The wire clamping is made mechanically using an innovative process that eliminates welding and other processes that can permanently deform the cylinder shape.

The cylinder is not rolled, and offers excellent roundness with no distortion. This allows for a uniform gap between the cylinder and the rotor to achieve optimum screening performances. The cylinder also offers dimensional stability over time due to the absence of residual stress caused by welding or rolling processes. The FibreWall cylinder is a rugged and robust design that can be used in the most adverse conditions.

**Optimum screening performances**
Based on a series of field trials, screening efficiencies achieved by FibreWall screen cylinders outperformed major competitive cylinders on removing debris and deformable contaminants such as stickies. The FibreWall cylinders have been able to reduce the stickies level by two to four times compared to other wedge wire cylinders operating under similar conditions.

**Exceptional repeatability**
The unique manufacturing process and technology make it possible to 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.

**Applications**
The FibreWall screen cylinder is a wedge wire cylinder designed to achieve high efficiency screening of recycled, mechanical, and virgin fiber. The patent-pending design features a robust mechanical assembly and a high-precision wire positioning system to minimize slot width deviation.

**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 effecting the strength of the cylinder. As a result, the profile depth of the FibreWall cylinder can be optimized for the specific application to get the best screening efficiency for a given passing ratio. This feature also provides optimal fractionation effect of the cylinder, particularly when using fine slot width.

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**Stickies removal efficiency for macrostickies (larger than Class 4).**

<table>
<thead>
<tr>
<th>Mill</th>
<th>Stickies removal efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (0.15 mm)</td>
<td>100%</td>
</tr>
<tr>
<td>2 (0.12 mm)</td>
<td>80%</td>
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<td>3 (0.10 mm)</td>
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Conventional Wedge Wire | FibreWall Screen Cylinder

**Stickies removal efficiency for ministickies (Class 1 to 4).**

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Conventional Wedge Wire | FibreWall Screen Cylinder
# FibreWall Screen Cylinders

## High-efficiency screening

### Features
- Mechanically held wires, built in the round
- Rugged, high mechanical strength
- Available for outward and inward flow screens
- Precise slot-width tolerance

### Benefits
- High shive and stickies removal efficiency
- Maximized flow capacity
- Extended operating life
- Application flexibility

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### Customer testimonials

**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

**We were about to order new screens to replace non-performing screens in our DIP line. FibreWall was our last hope to improve the existing inflow screens. We installed a FibreWall unit on a tertiary screen and immediately we noticed that the accept quality in terms of stickies was better than the quality of the primaries accept. We tested a second FibreWall screen cylinder on one of our primary screens and the stickies level was reduced by a factor of three.**

Recycle Superintendent, DIP mill, Canada

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**Inward flow cylinder**

**Outward flow cylinder**
For more than a century, Kadant subsidiaries have been delivering smart and efficient solutions to process industries. As a global leader in fiber processing, fluid handling, water management, and doctoring systems, we design and manufacture products used in industries ranging from paper to plastics and textiles to tires.

At Kadant, we are proud to offer innovative products and technologies that help reduce energy consumption, improve water management, and enhance efficiencies for long-term sustainability. Kadant brand products and services are sold to industries worldwide through our subsidiaries located in more than 16 countries. Our approach is simple: know our customers, understand their process, and use our specialized expertise to deliver the right solutions.