

# Screen Cylinders

**KĀDANT**  
AN ACCENT ON INNOVATION

High performance and  
durability for pulp and  
paper mill applications.



Coarse and fine screening cylinders.

# Types of Screen Cylinders

Drilled and slotted screen cylinders by Kadant are designed for high performance and durability for pulp and paper mill applications. All solid plate and wedgewire screen cylinders are manufactured to precise specifications. Both mechanical and electronic technologies are used to produce perforated hole and slotted cylinders to exacting standards.

The Kadant screen cylinder line offers a variety of profiled, drilled, and wedgewire designs. Our broad selection of cylinder profiles and open areas allows for greater process flexibility, depending on the specific process and actual operating conditions. Hole and slot sizes start at 0.004" (0.10 mm) and each cylinder is matched to the application. The pitch, or slot spacing pattern, typically ranges from four to ten slots per inch.

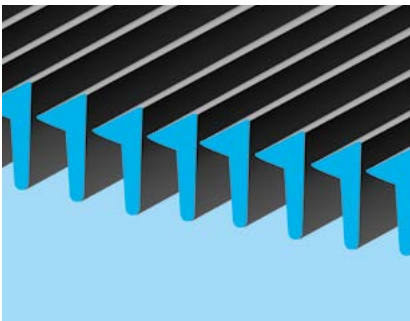
Materials of construction are various grades of stainless steel appropriately used to optimize the applications. Additionally, some cylinders can be plated with high levels of hard chrome for extended life.

## Applications

- ▶ Coarse and fine screening
- ▶ Wastepaper recycling and deinking
- ▶ Virgin fiber processing
- ▶ Paper machine approach flow
- ▶ Broke systems
- ▶ Fractionation systems
- ▶ Fines recovery
- ▶ Aggressive washing operations

**Kadant will help you choose the right screen cylinder for your mill's screening application.**

## Wedgewire Cylinders

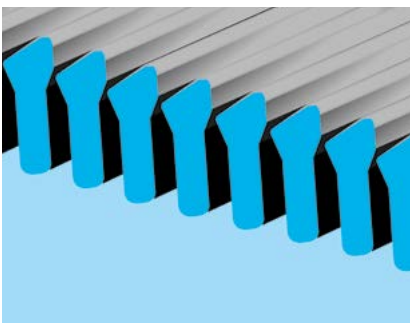


### V-MAX Cylinder

*Maximum strength and long wear life*

### V-MAX™ and FibreWall™ Cylinders

- ▶ Designed for coarse, fine, and approach flow screening systems
- ▶ Stainless steel construction
- ▶ Highest open area
- ▶ Cylinders use mechanically-held construction technology
- ▶ Chrome plated - including Xtreme Chrome on V-MAX
- ▶ Slot sizes 0.004" – 0.030" (0.10 mm – 0.76 mm)
- ▶ Rugged, high mechanical strength design



### FibreWall Cylinder

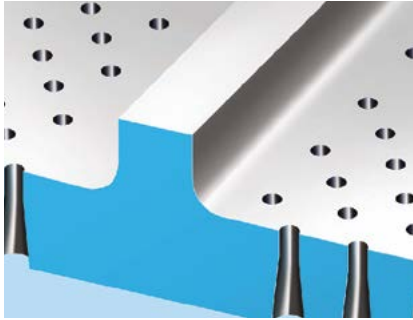
*Maximum efficiency and high-strength*

Before making a cylinder selection, Kadant will provide appropriate recommendations to ensure you have chosen the optimum solution.

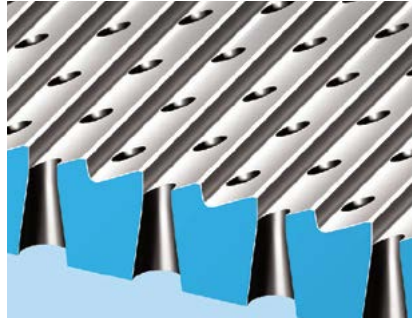
See individual V-MAX and Fibrewall brochures for more details.

# Wedgewire, Drilled, and Slotted

## Screen Plate Designs



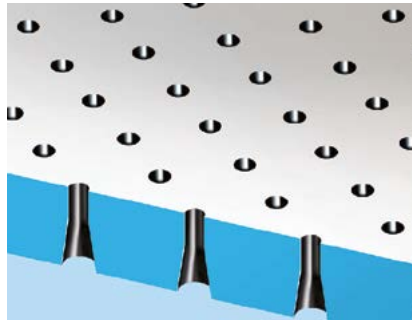
UP Cylinder



PHC Cylinder

### UP and PHC Cylinders

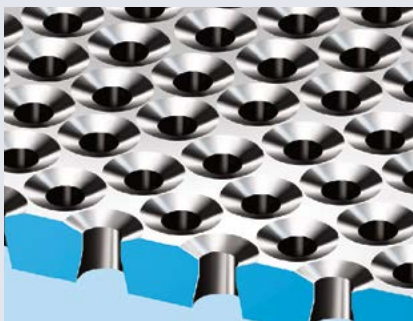
- ▶ Stainless steel construction
- ▶ Hole sizes 0.030" – 0.187" (0.76 mm – 4.75 mm)
- ▶ Conically drilled cylinder with turbulence bars
- ▶ Macro turbulence provides maximum capacity and consistency capability
- ▶ Barrier screening applications
- ▶ High turbulence for low fiber fractionation



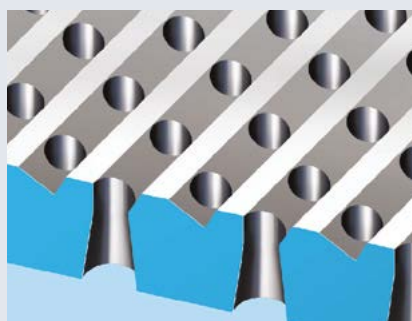
PH Cylinder

### PH Cylinder

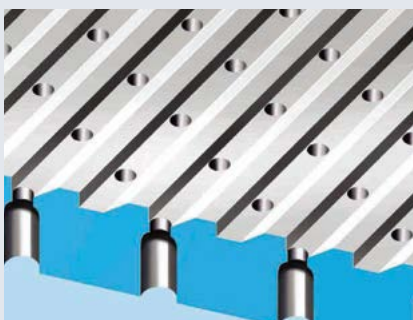
- ▶ Stainless steel construction
- ▶ Smooth surface with conically drilled holes
- ▶ Hole sizes 0.030" – 0.187" (0.76 mm – 4.75 mm)
- ▶ Highest efficiency — no surface turbulence
- ▶ Economical design



PHL Cylinder



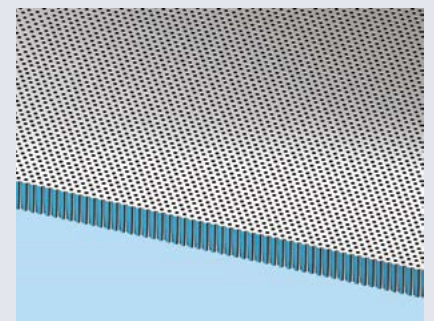
PHS Cylinder



PHP Cylinder

### PHL, PHS, and PHP Cylinders

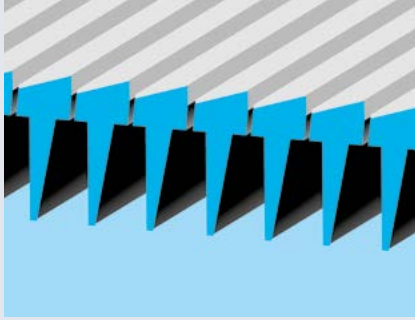
- ▶ Stainless steel construction
- ▶ Contoured surfaces, including a patented Lehman™ cylinder profile
- ▶ Chrome plating available for all contours
- ▶ Hole sizes 0.030" – 0.125" (0.76 mm – 3.18 mm)
- ▶ Micro turbulence — increased capacity and consistency capability
- ▶ High efficiency removal of coarse debris



EBD Cylinder

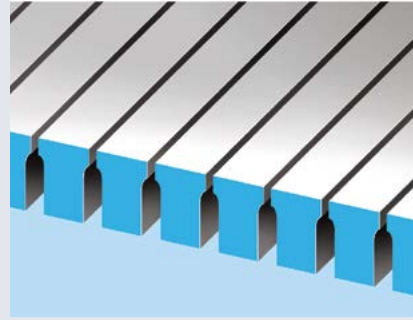
- ▶ Stainless steel construction
- ▶ Smooth surface with electronic beam drilled holes
- ▶ Hole sizes 0.004" – 0.010" (0.10 mm – 0.25 mm) are typical for most filtrate screen applications
- ▶ No surface turbulence

# Milled Slotted Cylinders



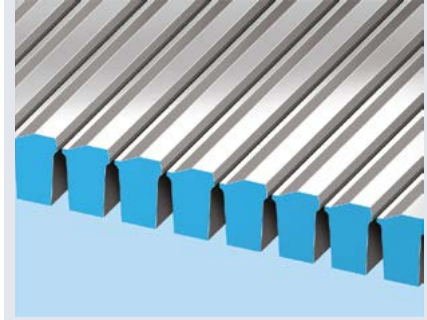
**UnConventional™ Cylinder**

- ▶ Stainless steel construction
- ▶ Higher open area version of standard milled slots
- ▶ Contoured, high-efficiency surface
- ▶ Five contour types to choose from to fit your application
- ▶ Slot sizes 0.006" – 0.030" (0.15 mm – 0.75 mm, 5-8 slots/inch)
- ▶ Micro turbulence for low fractionation



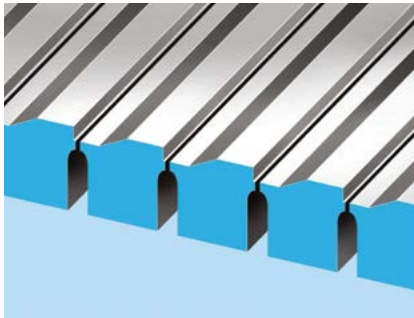
**PS Cylinder**

- ▶ Stainless steel construction
- ▶ Smooth inlet, tapered accepts
- ▶ Slot sizes 0.006" – 0.040" (0.15 mm – 1.0 mm)
- ▶ Efficient use with fractionating screens
- ▶ Highest efficiency — no surface turbulence
- ▶ Economical design

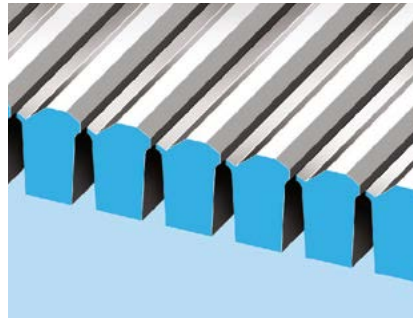


**PSP-MAX Cylinder**

- ▶ Stainless steel construction
- ▶ Higher open area version of PSP, 30% more open area
- ▶ Contoured surface
- ▶ Slot sizes 0.006" – 0.022" (0.15 mm – 0.56 mm, 5-10 slots/inch)
- ▶ High efficiency contour
- ▶ Greater open area provides lower slot velocities and increased efficiency
- ▶ Micro turbulence for low fractionation



**PSP Cylinder**



**PSS Cylinder**

## **PSP and PSS Cylinders**

- ▶ Stainless steel construction
- ▶ Contoured surfaces, including a patented Lehman™ cylinder profile
- ▶ Slot sizes 0.006" – 0.022" (0.15 mm – 0.56 mm)
- ▶ Micro turbulence - provides increased capacity and lower fiber fractionation in comparison to smooth inlet cylinder (PS)
- ▶ High efficiency contours — various designs to match application
- ▶ Proven reliable designs
- ▶ Chrome plating provides extended wear

**KADANT**  
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Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

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