

# V-MAX™ Screen Cylinders

For demanding applications  
requiring high strength  
and product durability

*Increased strength  
extends the life of  
the cylinder, and the  
rebuildable feature  
keeps cost lower  
for the long run*



# V-MAX

## Screen Cylinders

### Application Diversity

The V-MAX screen cylinder is designed to achieve maximum flow, screening efficiency, and strength to all slotted screening applications.

The V-MAX has delivered optimum screening performance and robust service life in thousands of demanding screen installations across the globe. High-strength, wear resistant wire elements greatly reduce debris damage and slot wear while maintaining continuous fiber savings.

### Sustainable Reliability

The strength of the V-MAX cylinder eliminates breakages common to standard wire cylinders. The V-MAX cylinder easily handles large debris with rugged durability and can operate with any rotor style. The increased open area provided by the V-MAX frame design heightens capacity across a wide variety of applications.

### Exceptional Performance

The strength and maximum open area of the V-MAX screen cylinder provides maximum flexibility to optimize your screening at an overall reduced cost. V-MAX screen cylinders provide greater capacity at higher speeds and a longer run life at top performance.

### Benefits



#### Extended life

- Patented high-strength frame
- Patented rebuildable design with replaceable screen panels



#### Increased capacity

- Continuous slots
- Increased open frame area
- Excellent slot-width accuracy
- Operates at speeds up to 32 m/s



#### Impact resistance

- Wear resistant wire design and construction

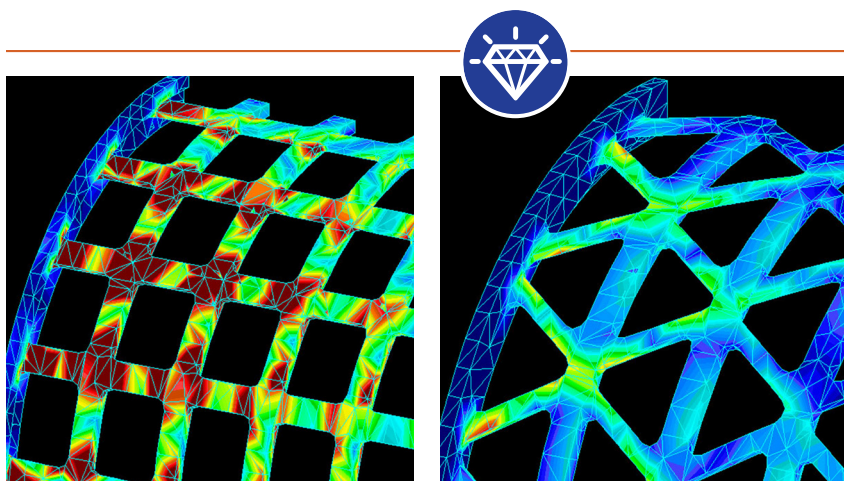


#### Improved efficiency

- Weld-free construction assures slot precision and cylindricity



#### Increased energy savings



*Conventional frame design inherently has areas of high-stress concentration leading to failures*

*The patented V-MAX non-welded triangle frame design has minimal concentrated stress, is structurally superior, and lasts longer*





# Increased capacity at high rotor speeds

## Starts with the frame for strength and sustainable rebuildability

### Unique V-shaped construction

The V-MAX screen cylinder consists of a patented, triangle structured frame that provides superior strength and excellent wear resistance and life to the cylinder. The V-shaped design and high-strength alloy combine for the best performance and maximum strength. The robust design and construction of this frame enables an extended lifetime of cost-saving rebuilds to consistent and accurate specifications.

## Stays in the round for performance and reliability

### Advanced screen construction

V-MAX wedgewire has a uniquely designed shape that improves cylinder resistance to both profile and slot wear. It's advanced wire alloy provides unmatched strength and resiliency, especially when combined with optional Xtreme™ chrome. This combination can withstand even the harshest environments.

### Patented wedgewire Posi-Lock™ panel

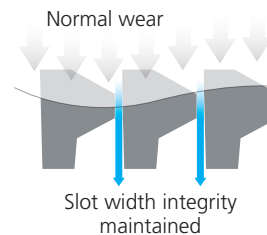
The Posi-Lock panel is an engineering breakthrough featuring an exclusive design and unmatched mechanical interlock construction. A precision machined U-Clip™ holds the V-MAX wire segments securely in place while providing slot-width control. The design eliminates the need for welding which can result in slot-width distortion.

The V-MAX cylinder offers consistent and precise slot-width openings, a weld-free design, and excellent roundness. A wide selection of slot widths, slot spacings, and contours are available for any screening application.

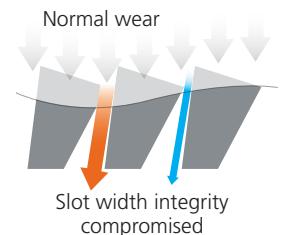


*The rugged V-MAX frame ensures distortion free screen precision over a long lifetime of cost-saving rebuilds*

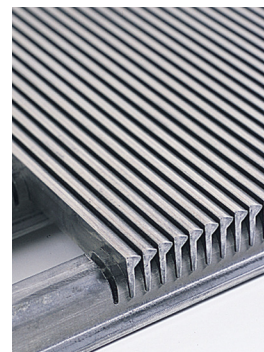
### V-MAX screens



### Competitive screens



*The flat wearing surfaces and optimized profile of the V-MAX wedgewire extends cylinder life*



*Posi-Lock panel maintains precise slot alignment and spacing*



*Proprietary Kadant U-Clip design eliminates welding and distortion*

## 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

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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.

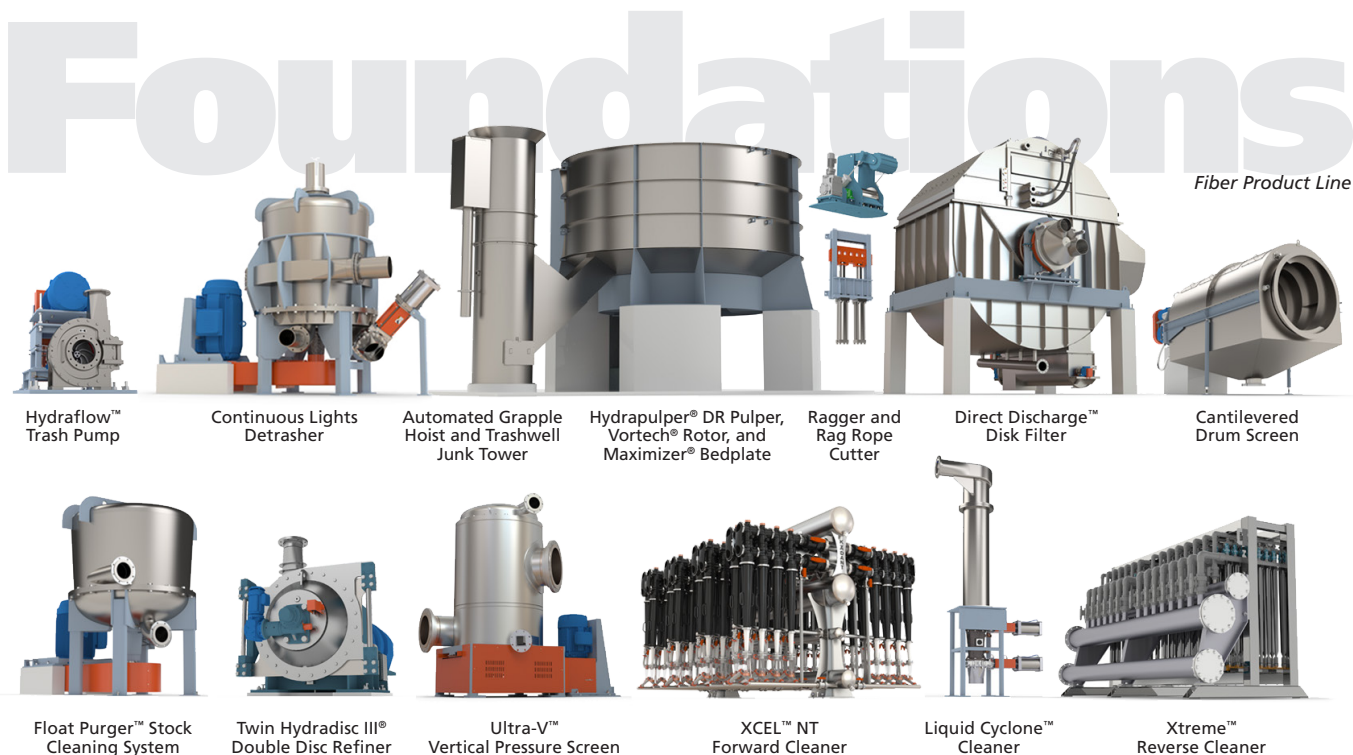
We have generations of experience, a history of innovation, and a proven record of success across the globe. Our skilled engineers, process professionals, application experts, manufacturing, and field service teams have thousands of successful installations to their credit.

## 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:

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

The Kadant Black Clawson **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

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