KADANT

FIBER PROCESSING

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 perfomance.

Benefits

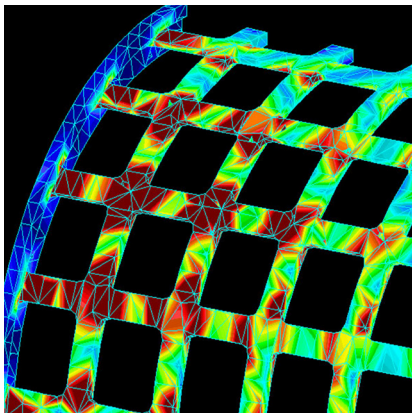
Extended life
- Patented high-strength frame
- Patented rebuildable design with replaceable screen panels

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

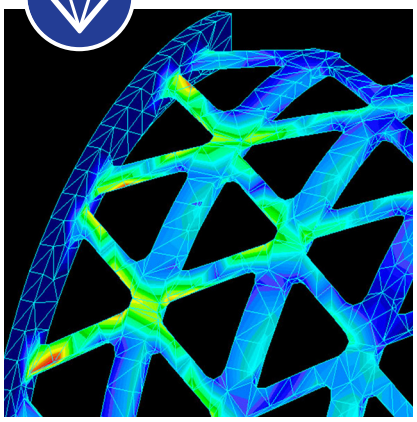
Impact resistance
- Wear resistant wire design and construction

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



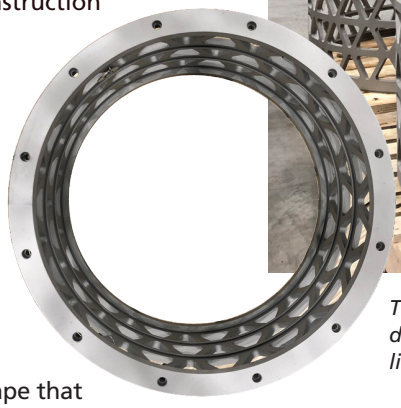
The patented V-MAX non-welded triangle frame design has minimal concentrated stress, is structurally superior, and lasts longer

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.



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

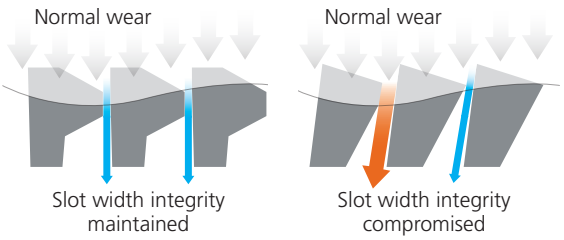
Stays in the round for performance and reliability

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.

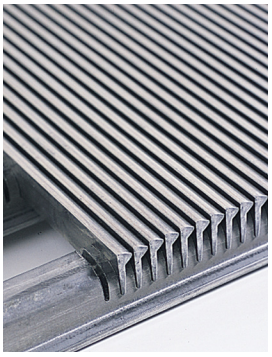
Patented wedgewire Posi-Lock™ panel

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.

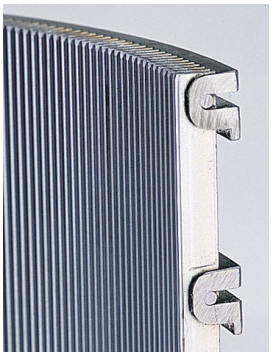


The flat wearing surfaces and optimized profile of the V-MAX wedgewire extends cylinder life

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.



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

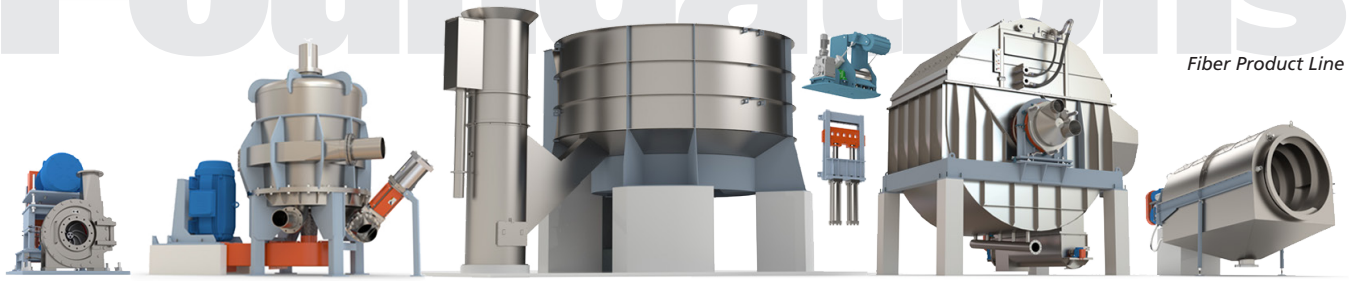
Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

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

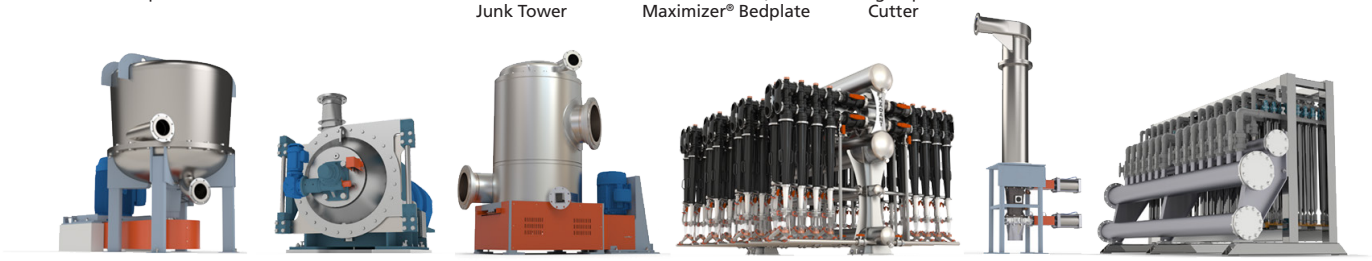
The Kadant Foundations product line offers a full range of fiber processing equipment and services.

Foundations

Fiber Product Line



Hydraflow™ Trash Pump | Continuous Lights Detrasher | Automated Grapple Hoist and Trashwell Junk Tower | Hydrapulper® DR Pulper, Vortech® Rotor, and Maximizer® Bedplate | Ragger and Rag Rope Cutter | Direct Discharge™ Disk Filter | Cantilevered Drum Screen



Float Purger™ Stock Cleaning System | Twin Hydradisc III® Double Disc Refiner | Ultra-V™ Vertical Pressure Screen | XCEL™ NT Forward Cleaner | Liquid Cyclone™ Cleaner | Xtreme™ Reverse Cleaner

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

KADANT

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

North America, Central America, and Japan:

Kadant Black Clawson LLC
1425 Kingsview Drive
Lebanon, OH 45036 USA
Tel: +1-513-229-8100
Email: info@kadant.com

China, Taiwan, and South Korea:

Kadant Fiberline (China) Co. Ltd.
STE 1960, Beijing Sunflower Tower
37 Maizidian Street, Chaoyang District, Beijing 100125 China
Phone: +86-10-65813011/12/13
Email: Marketing.KFC@kadant.com

EMEA, APAC, and South America:

Kadant Lamort SAS
39, rue de la Fontaine Ludot,
B. P. 30046
Vitry-le-Francois cedex 51302
Phone: +33-26-74-80-80
Email: kadant.lamort@kadant.com

Kadant Noss AB
Malmgatan 25
602 23 Norrkoping, Sweden
Phone: +46-(0)-11-23-15-00
Email: info.kadantnoss@kadant.com

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