Changing how mills screen one cylinder at a time.

Rebuildable screen technology.
V-MAX Screen Cylinder

Unique construction
The V-MAX screen cylinder consists of a patented, non-welded, triangle frame design providing superior overall strength and excellent wear resistance and life to the cylinder.

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

Optimum screening performances and extended life
High-strength, wear resistant wire elements greatly reduce debris damage and slot wear.

Exceptional reliability
V-MAX’s strength does away with breakage common to standard wire cylinders in many screening applications. Large debris is no match for the V-MAX and can operate at speeds up to 32 m/s with any rotor style. The increased open area of the V-MAX design increases capacity in many applications.

Flexibility
The strength and maximum open area of the V-MAX screen cylinder provides maximum flexibility to optimize screening at a reduced cost.

Increased capacity
Extended life
Increased energy savings
Increased efficiency
Impact resistance
Improved fine screen efficiency

Capacity Increase

<table>
<thead>
<tr>
<th>Cylinder Type</th>
<th>Accept TID</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062'' Hole</td>
<td></td>
</tr>
<tr>
<td>0.024'' BB Slot</td>
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</tbody>
</table>

This typical 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.
Replaceable screening panels

**Features**
- Continuous slots
- Patented high-strength frame
- Design provides excellent slot-width control
- Patented rebuildable design with replaceable screen panels
- Weld-free construction
- Wear resistant wire design

**Benefits**
- Increased capacity at high rotor speeds
- V-shaped cutout design and high-strength alloy combine for maximum torsion and bend strength
- Rebuildable feature keeps cost lower than buying a new cylinder
- Increased strength extends the life of the cylinder

**Unique screen construction**

V-MAX wire has a uniquely designed shape that improves cylinder resistance to both profile and slot wear. The screen's advanced wire alloy is harder and more resilient especially when combined with the optional 'Xtreme™ chrome'. This combination can withstand even the harshest environments.

**Chrome plating**

Chrome Rockwell Hardness 65Rc min.

Thin = 50 – 127 microns (.002” – .005”)
Standard = 102 – 229 microns (.004” – .009”)
Heavy = 254 – 381 microns (.010” – .015”)
Xtreme Chrome = 406 – 508 microns (.016” – .020”)

**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.
Evolve your screening with V-MAX screen cylinder
- Greater open area for increased screening capacity
- Slotted cylinder provides better screening efficiency
- Expert mechanical design lowers energy consumption
- Wear resistant wire elements for longer life
- Rebuildable cylinder reduces overall replacement costs

“Tough as nails” and developed to take a beating from rocks, bolts, sand, and other hard and abrasive materials, the V-MAX cylinder is designed to withstand the harshest screening applications.

About Kadant

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 18 countries. Our approach is simple: know our customers, understand their process, and use our specialized expertise to deliver the right solutions.

Specifications and information subject to change without notice.