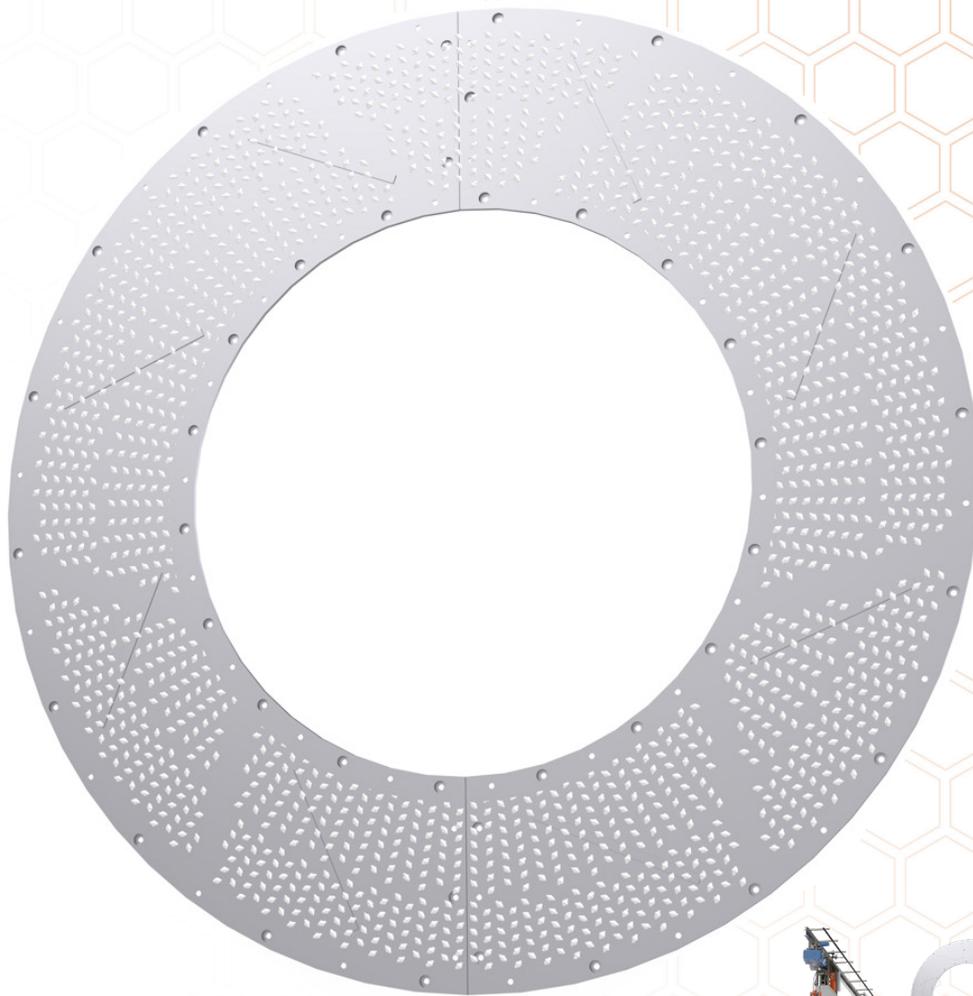


Maximizer[®] Extraction Plate

Increased defibering,
maximized deflaking



*The Maximizer
Extraction Plate
is an integral part
of the Hydrapulper
Pulping System*



Maximizer[®] Extraction Plate



Applications

Kadant Black Clawson introduces the new Maximizer Bedplate with its unique perforation pattern to provide improved wear and defibering characteristics. Unlike conventional drilling technology with circular perforations, the Maximizer design challenges the basic premise of drilling holes by increasing the functional attrition edges to improve defibering.

The Maximizer is designed for all applications currently using 3/8" to 5/8" holes in both continuous and batch pulpers. Patterns are available that provide the same cleanliness as conventional bedplates, and stellite wear strips are used to prevent junk from wrapping the rotor.

Features

Flow across a bedplate is not tangential or radial, so holes have typically been used because of their orientation flexibility and ease of manufacture. The perforations on the Maximizer bedplate, however, have increased defibering edges aligned to maximize the attrition of flakes across the bedplate.

Where a hole may have only 30% of the edge effectively opposing the flow and creating attrition, the Maximizer has 100% of the edges affecting the attrition and efficiency of the pulper. Additionally, the open area of the plate is preferentially given to the area where it is used most- the outer two-thirds of the plate. This provides quicker defibering and improved hydraulic performance.

Specifications

The new Maximizer bedplate is supplied in a highly wear-resistant material. Unlike industry standard bedplates made of heat treated 410 stainless, the Maximizer can typically extend the time between plate flips or replacement by 10% to 30%. Most Maximizer bedplates are designed to be flipped. The material construction of the plate, extends wear life significantly which reduces maintenance costs associated with more frequent change-outs.

Benefits



Increased defibering edges



Improved wear resistant material - increases time between plate flips or replacement up to 30%.



Greater open area on outer two-thirds of the plate - quicker defibering and improved hydraulic performance



Most patterns can be flipped - extends wear life



Stellite wear strips- prevent junk from wrapping the rotor



Slotted mounting holes - quicker change-outs and reduced maintenance cost

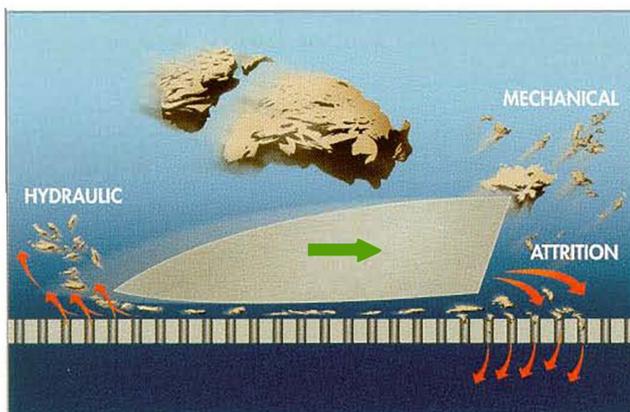
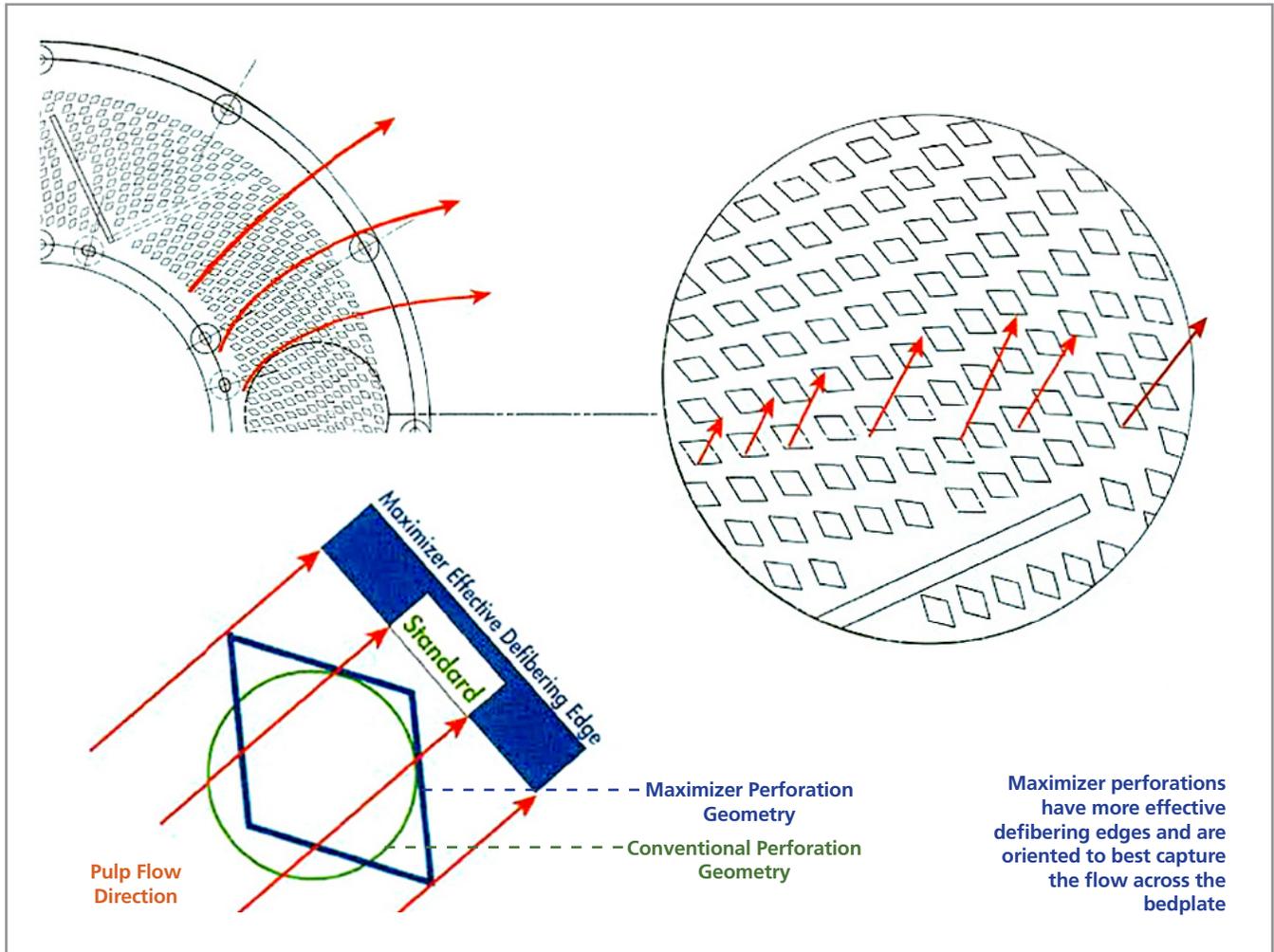
System Applications

Pulping is comprised of three primary actions:

1. **Mechanical - initial shear contact energy**
2. **Hydraulic - under rotor and in-tub shear energy**
3. **Attrition - deflaking and fiber bundle energy**

The Maximizer bedplate optimizes the performance of the two key pulping actions, hydraulic shear and mechanical attrition. Increased defibering efficiency is used to reduce pulping time and/or improve pulping quality.

Patented diamond perforation pattern provides increased defibering edges



- **Maximum fiber captured**
- **Low maintenance**
- **Dual-sided, Long-lived**
- **Max defibering quality**

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:

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- 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.

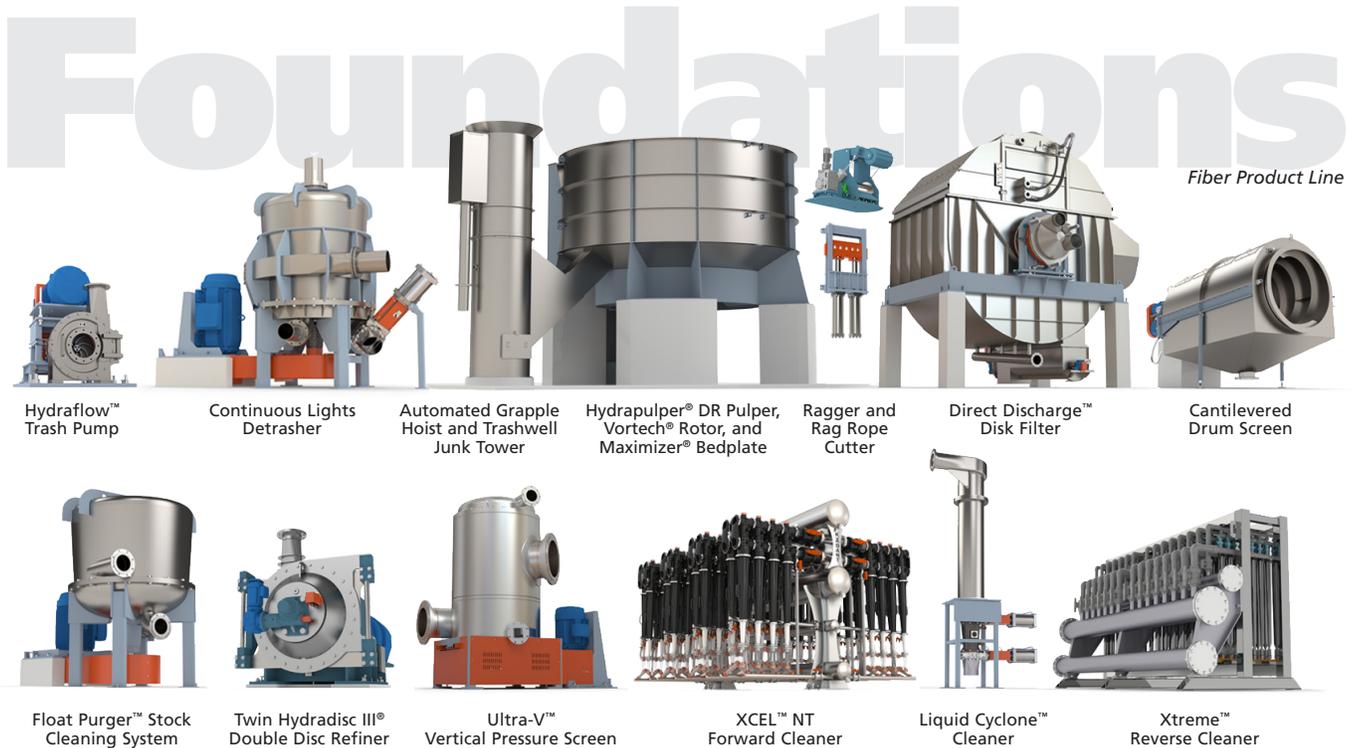
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Get You Running, Keep You Running

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 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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