

Impulse Rotor

Custom design,
tailored results

*Customizable rotor for use
in mechanical, chemical,
and recycled fiber
applications*



Impulse Rotor

Applications

The Impulse rotor is a customizable rotor for use in mechanical, chemical, and recycled fiber applications. The sloped foil design improves cylinder back flushing while the foil's leading edge mechanically assists debris movement into the screen rejects.

Screening sub-system analysis

The two most critical components influencing pressure screen performance are the screen cylinder and the rotor. While substantial improvements in screening system performances have been achieved with advancements in screen cylinder designs, rotor development has been limited to incremental changes that were commonly applied as a one-size-fits-all approach. Kadant Black Clawson's customizable approach to rotor design offers a new way of thinking to optimize screening system performance.

Screening system improvements and optimization begin with a thorough process audit. A thorough process audit is a systematic method used to define key rotor design parameters that will deliver specific system improvements. Using the data collected from the audit, a customized rotor with optimal foil patterns and shapes is designed and presented along with a complete analysis and recommendation for increasing the performance of the screening system.

Tailored results

Following the audit, rotor characteristics are specifically tailored to optimize the screening system. The key variables considered in the custom-design include rotor speed, foil design, rotor clearance, number of foils, and foil configuration. As a result, fiber yield and runnability are maximized while energy consumption is minimized.

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- ▶ **Rotor Speed** - Maximum Capacity / Reduced Energy
 - ▶ **Foil Design** - Increased Yield / Improved Runnability
 - ▶ **Rotor Clearance** - Better Efficiency / Improved Runnability
 - ▶ **Number of Foils** - Reduced Energy / Increased Yield / Improved Runnability
 - ▶ **Foil Configuration** - Increased Yield / Improved Runnability / Reduced Energy

Benefits



Available in multiple sizes

- The impulse rotor can be used in nearly all screen models.



Very low power is required

- The foil pattern is designed to minimize energy requirements and offers low power consumption.



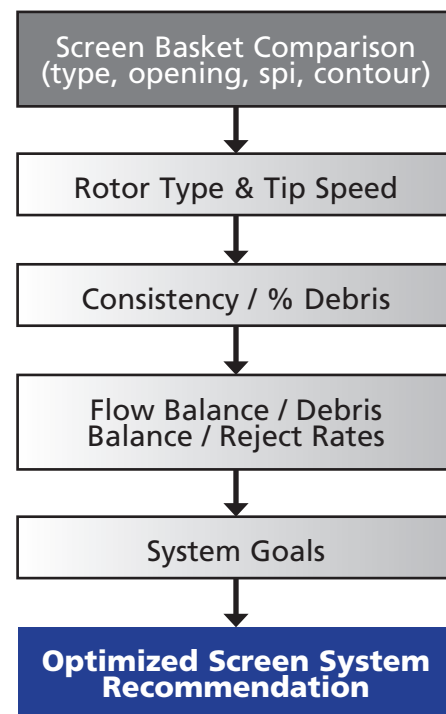
Minimal cost to upgrade

- Existing drum-style rotors can often be retrofitted.

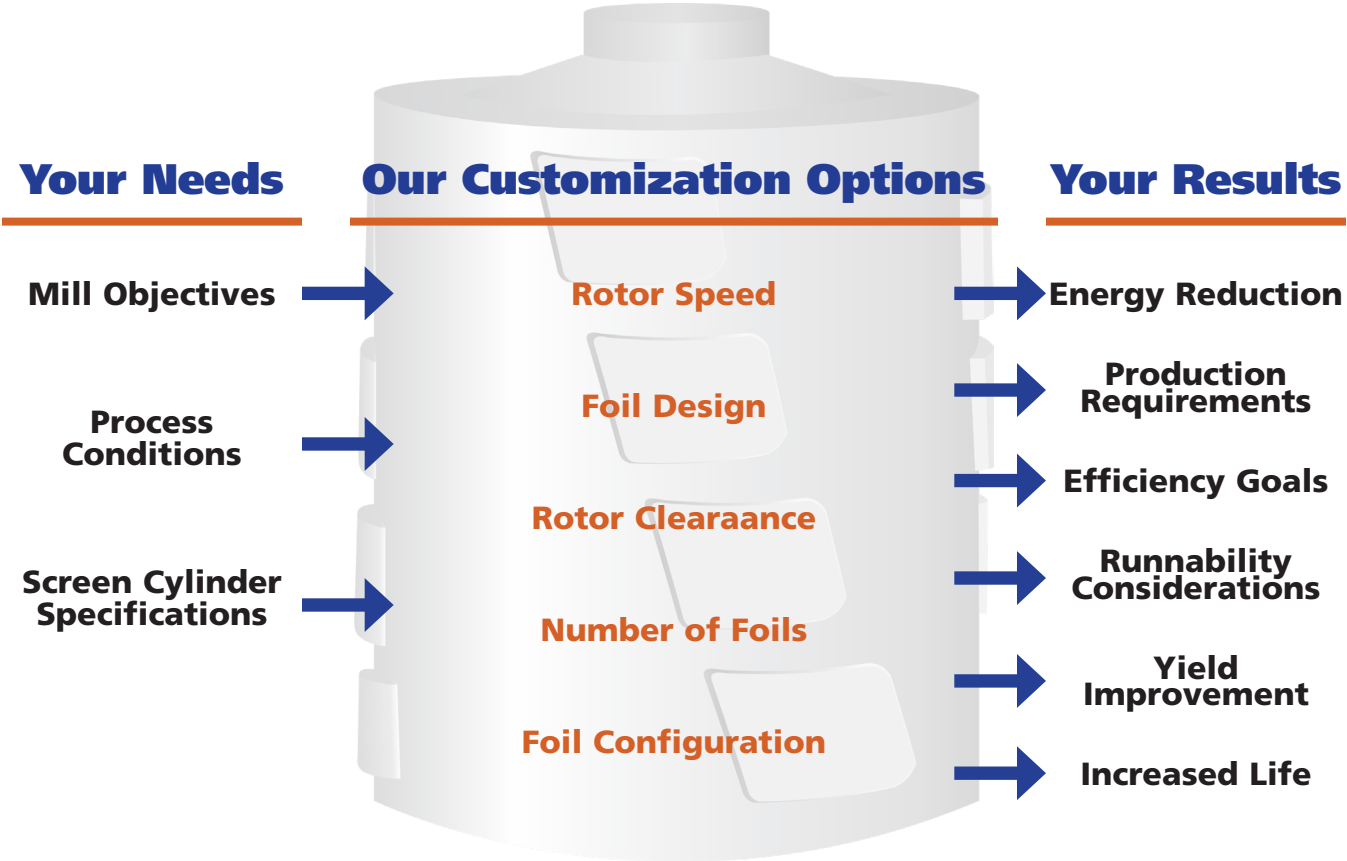


Long lasting rotor

- Solid foils cast from hardened materials provide extended operating life.



Customizable rotor provides optimum results for specific mill screening objects



Impulse Rotors are customizable to provide optimum results for specific mill screening objectives.



Before & After

Recondition or upgrade: The choice is yours

In many installations, reconditioning the rotor may be all that is required to breathe new life into an existing rotor. Utilizing the findings from a process audit, Kadant Black Clawson can offer reconditioning when possible, or replacing when needed. In the end, cost-effective solutions are provided to maximize the performance of your screening system based on your unique operating environment and needs.

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

Certified Parts and Service 24 Hour Hotline for North America: 1-800-448-5422

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.

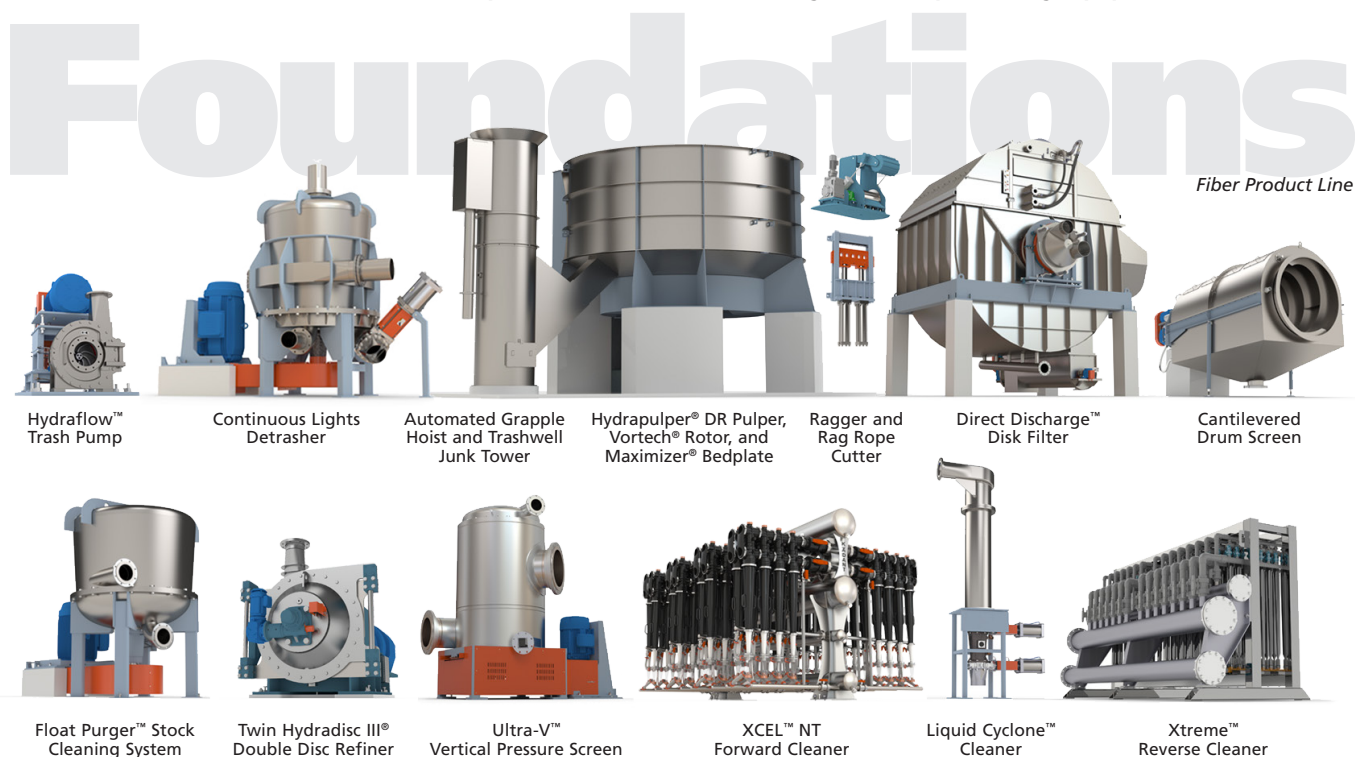
We have generations of experience, a history of innovation, and a proven record of success across the globe. Our skilled engineers, process professionals, application experts, manufacturing, and field service teams have thousands of successful installations to their credit.

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 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

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

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