

Float Purger Stock Cleaning System

Coarse stock cleaning
of low density debris



Fiber free rejects



Float Purger

Stock Cleaning System

Application

The Float Purger stock cleaning system concentrates plastics and other low density contaminants completing the defibering of accept material. It is usually used in the coarse screening loop of any furnish that is heavily contaminated and not fully defibered.

Operation

The Float Purger system is a vertical pressurized machine which performs three main functions to treat coarse screen rejects following a continuous pulping system.

1. Concentration of light contaminants.

The action of the bottom rotor sets up a strong vortex forcing light contaminants to the center of the air core. The reverse dish at the top of the unit ensures that the contaminants are removed at the lowest pressure point, providing high removal efficiency.

2. Defibering of undeflaked stock.

A defibering action occurs between the bottom rotor and the extraction plate. The accepted pulp usually is returned to the pulper tub.

3. Collection and removal of heavy grit.

Centrifugal force pushes heavy contaminants into a tapered reject channel around the periphery of the extraction plate. This debris is removed through an intermittent purge.

Results

The design and operating characteristics of the Float Purger system separate three distinctive streams: stock accepts, light rejects, and heavy rejects. Each stream typically needs further processing, requiring accessory equipment, to recover water and remove coarse screen contaminants from the system.

This energy-efficient system offers continuous and reliable operation with excellent rejects removal efficiency and high accepts quality. As a result, contaminant build-up in the system is reduced and productivity is increased.

Benefits



High Reject Removal

Traps heavy debris for periodic or continuous removal of rejects that are virtually fiber free



Energy Efficient

Applying power only where required



Low Maintenance

Built tough withstand high volumes of debris and optimally designed with very few moving parts



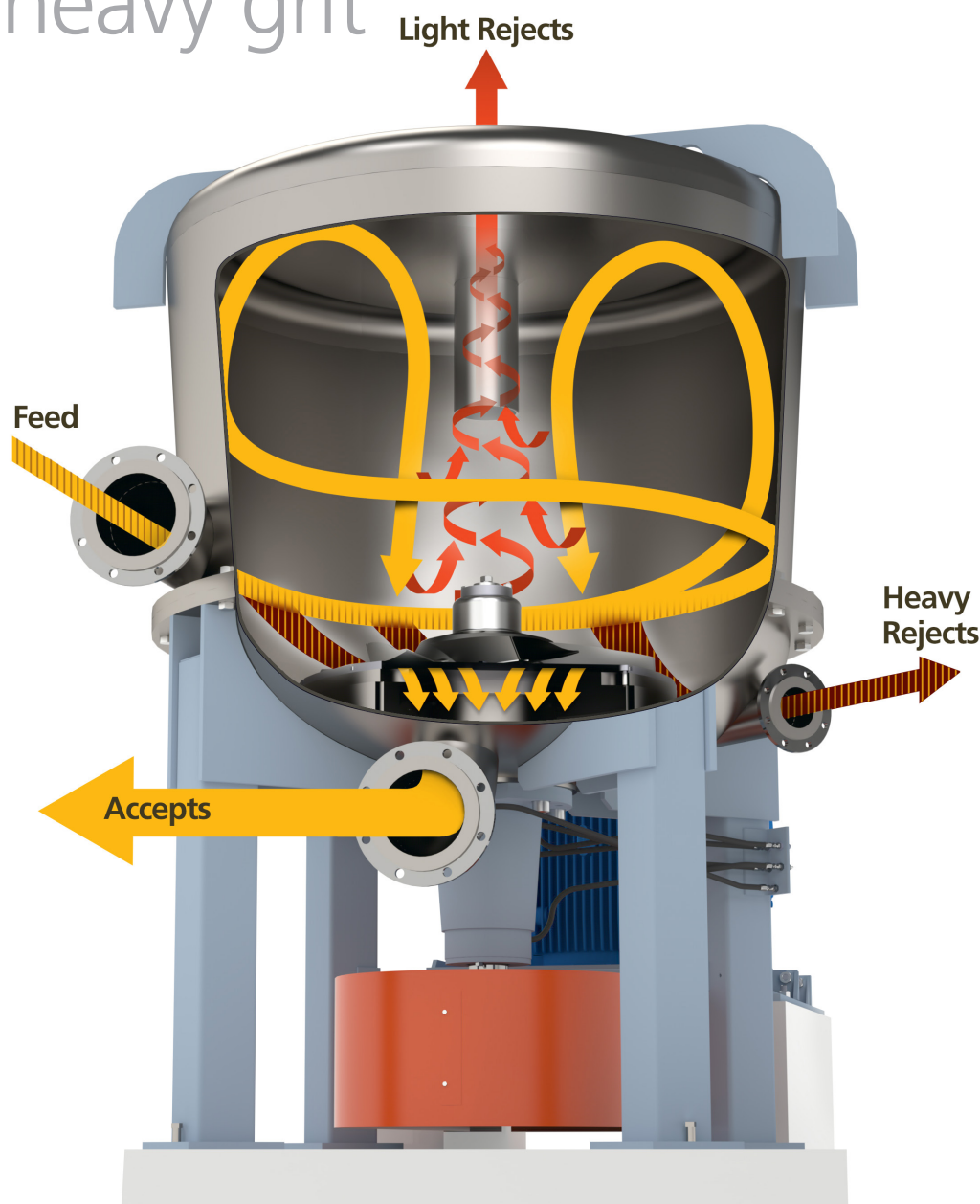
Reduces Contaminant Buildup

High removal of light contaminants such as plastics, polystyrene, and styrofoam



Fiber-free rejects including troublesome styrofoam and plastics

Removes light debris and heavy grit



Three models of the Float Purger system are available

Model		A	B	C	Accept Diameter	Inlet Diameter	Light Rejects Diameter	Rotor Diameter	Nominal Motor HP
150-34	In.	101	60	99	8	8	6	34	150
	mm	2553	1525	2523	200	200	150	869	
75-25	In.	77	48	91	6	6	4	25	75
	mm	1956	1216	2308	150	150	100	635	
40-18	In.	58	40	82	4	4	2	18	40
	mm	1464	1022	2074	100	100	50	457	

General dimensions - not certified for construction or installation.
Guards are omitted for clarity; but perimeter guards are recommended.



*Float Purger rotor
and bed plate*

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.

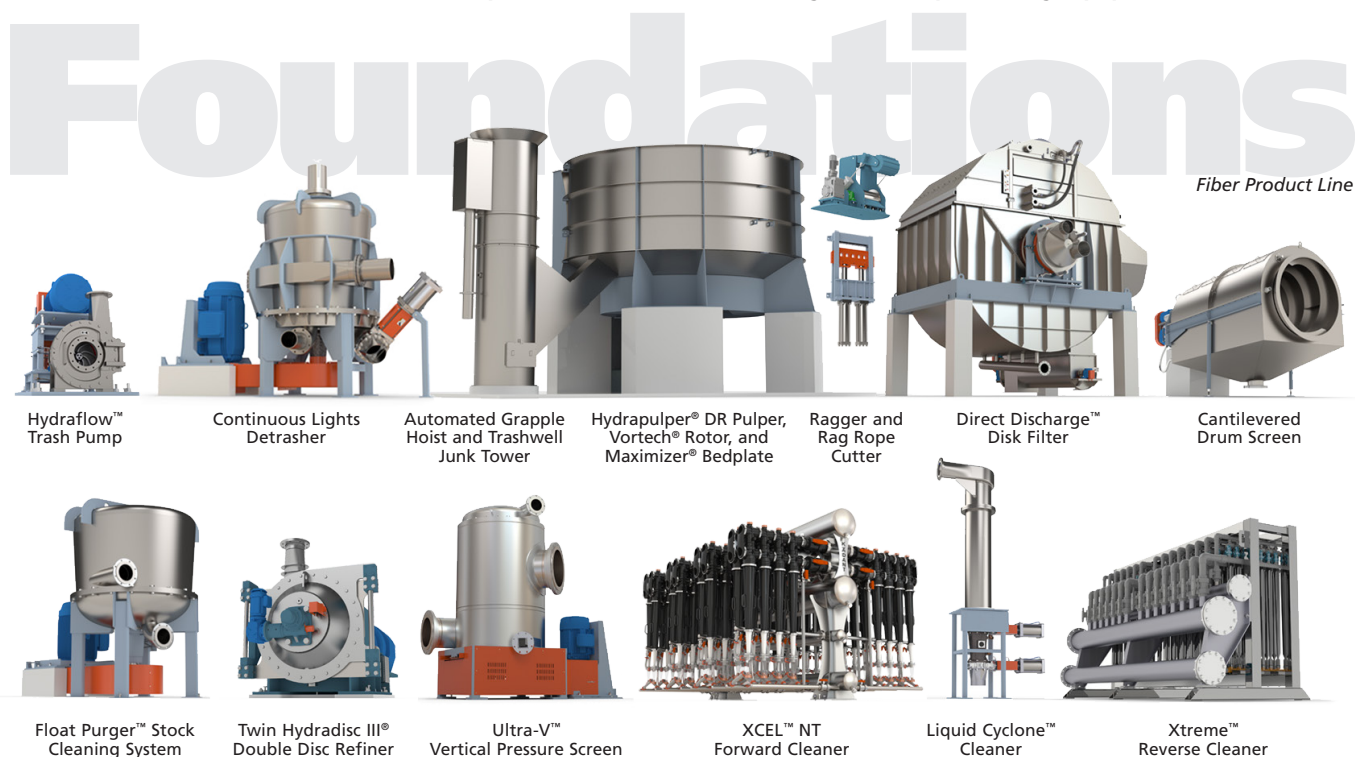
We have generations of experience, a history of innovation, and a proven record of success across the globe. Our skilled engineers, process professionals, application experts, manufacturing, and field service teams have thousands of successful installations to their credit.

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 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>

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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 Norrköping, Sweden
Phone: +46-(0)-11-23-15-00
Email: info.kadantnoss@kadant.com

Float Purger
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