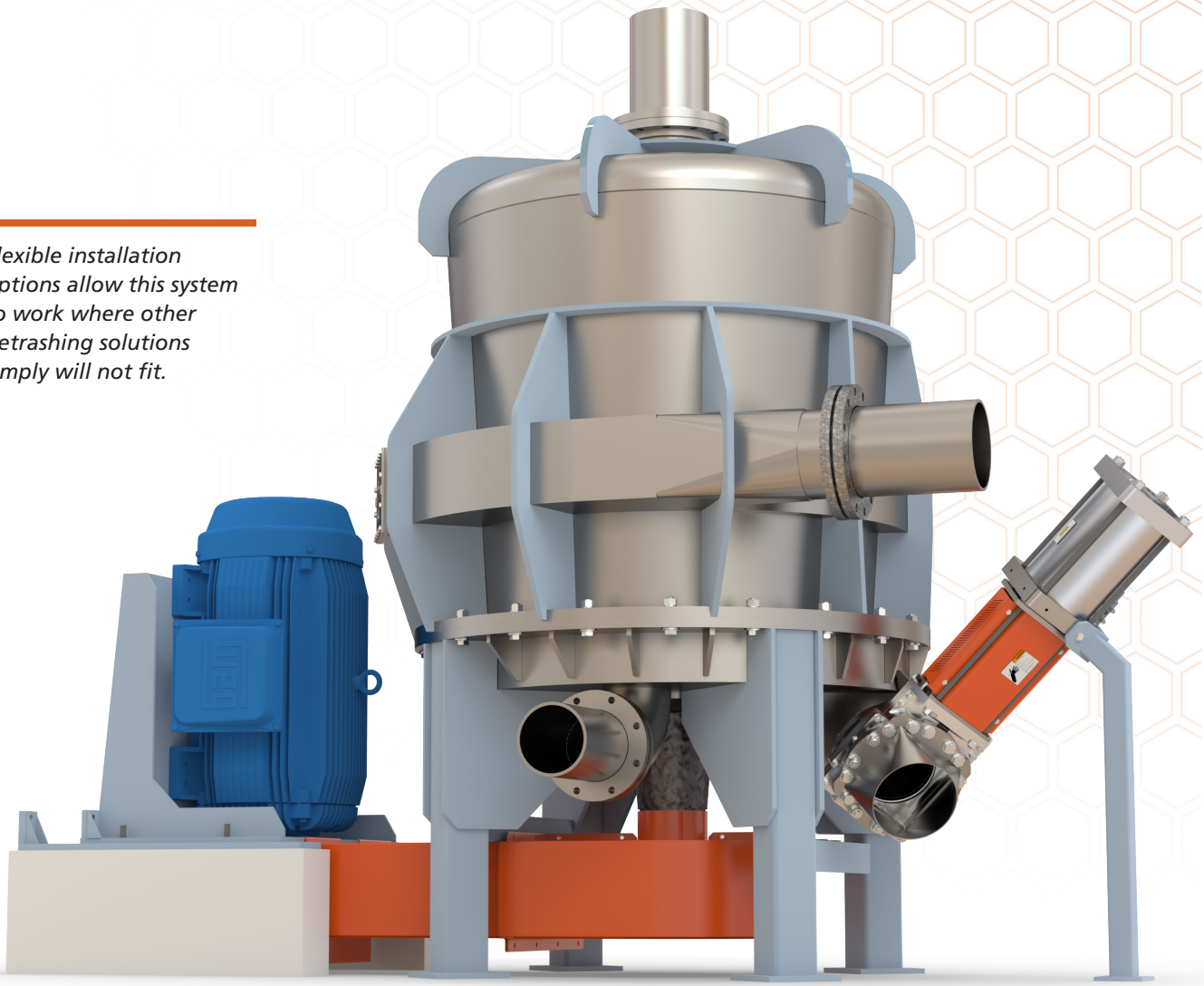
KÄDANT

FIBER PROCESSING

# Hydraflow
# Continuous Detrashing System

## Durable system producing constant output of low-density, light-weight rejects

*Flexible installation options allow this system to work where other detrashing solutions simply will not fit.*



# **Hydraflow**
# Continuous Detrashing System

## Handles the Trash Before It Becomes a Problem

The Hydraflow Detrashing System is a proven low attrition means of maintaining optimum pulper performance. It removes lightweight, low-density debris that otherwise would overstay it's time in the pulper, reducing output and wasting valuable energy. With constantly increasing amounts of plastic and other contaminants in waste paper furnish, the Hydraflow detrashing system prevents contaminant build up in the pulper that results in loss of production, wasted power, excessive downtime, increased wear, and lower pulp quality.

## System Operation

The Hydraflow detrashing system consists of a special heavy duty detrasher, a specifically designed trash pump and cantilevered drum screen. Additionally, it is recommended that your pulper should be teamed with an automated grapple hoist, trashwell, ragger, and tail cutter.

The detrashing system runs alongside conventional continuous pulpers without requiring intermittent washing and flushing of the low-density rejects. It is designed to remove plastics, styrofoam, and debris directly from the pulper before they pass through the holes of the pulper extraction bedplate.

The detrasher provides ample circulation to defiber entrained paper flakes and uses a Maximizer® bedplate similar to the pulper to control accept quality. The accepted pulp that passes through this bedplate moves forward in the system to increase production and, if desired, pulper residence time. The drum screen recovers any entangled fiber and dewaters the low-density rejects. The overall result is reduced maintenance and increased system stability.

**Provides a continuous reject flow with minimal contaminant breakdown**

## Benefits

### Increased Capacity

- Designed to handle high trash loads with minimal contaminant breakdown
- Yields more high-quality pulp by removing reject debris
- Removes large volume of contaminants including light-weight plastics
- Increases pulper throughput while minimizing fiber loss with rejects

### High Efficiency

- Removes contaminants in their largest form to protect downstream equipment and recover fiber
- Constant and continuous output of both reject material and defibered accept pulp

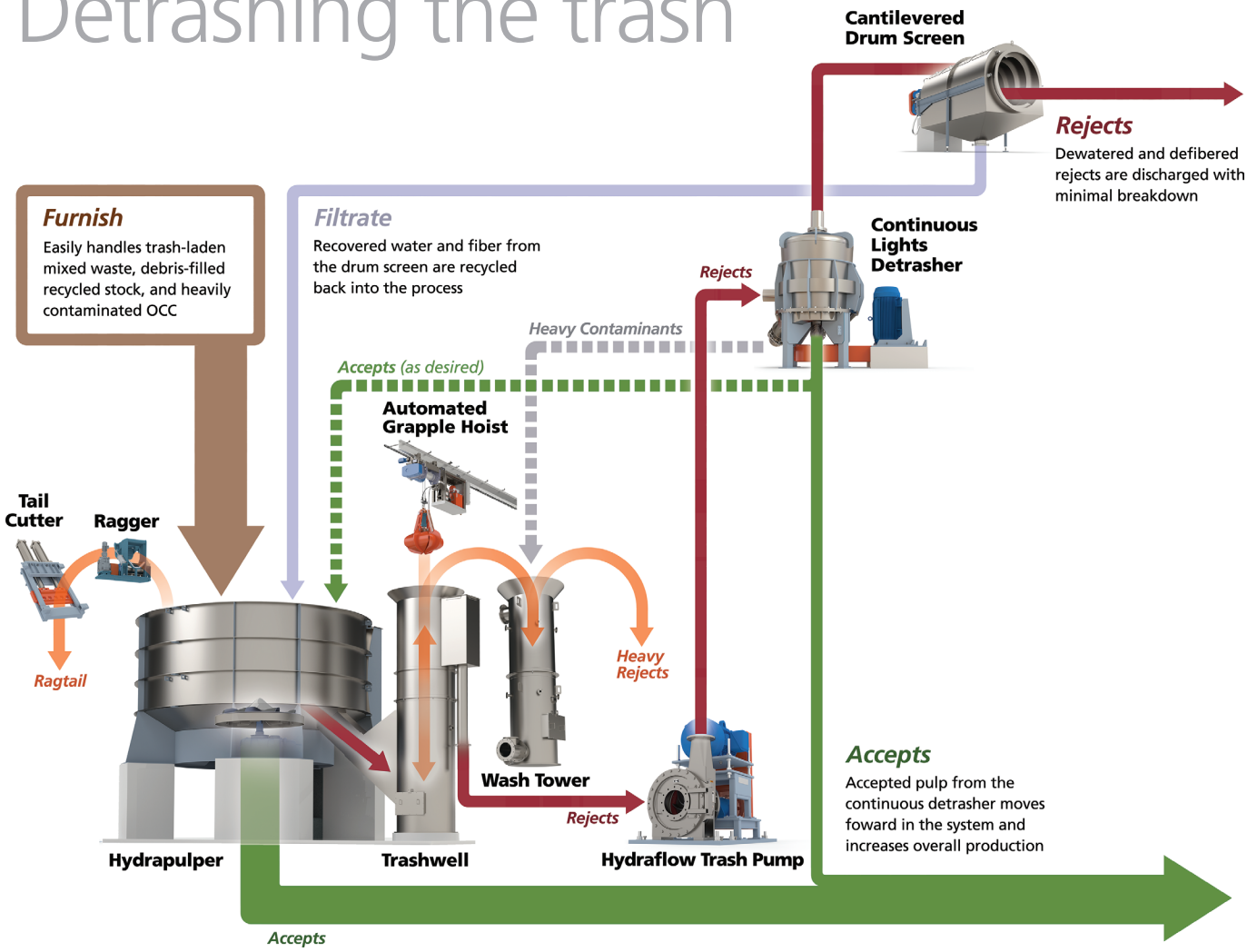
### Low Maintenance

- No required intermittent washing or flushing of the low-density rejects increases stability and consistency in accepts
- Offers invaluable protection against tramp metal damage and wear
- Fewer valves mean minimum maintenance, parts, and labor
- System stability minimizes downtime for cleanout and maintenance
- Simple operation; minimum controls

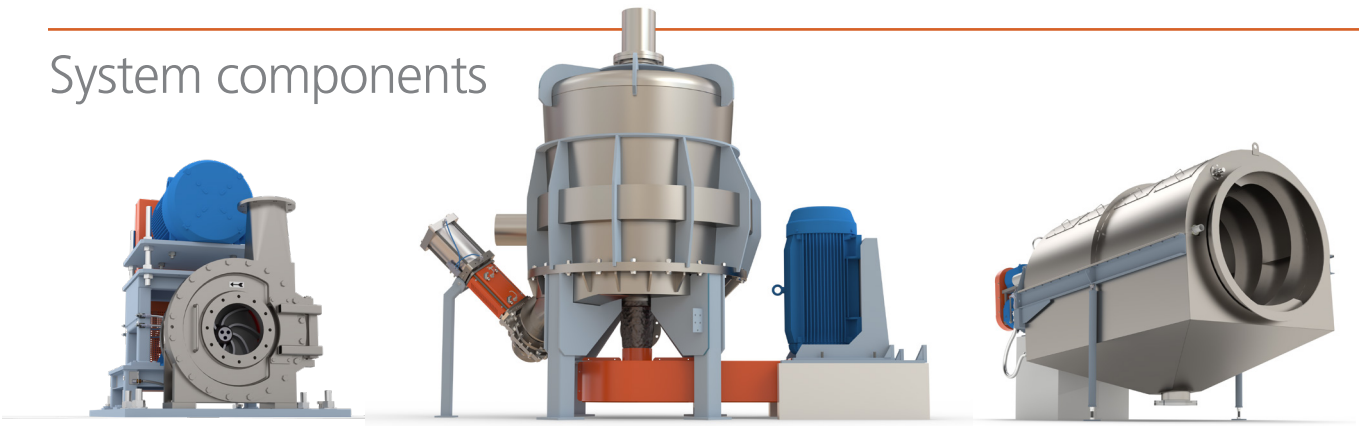
### System Flexibility

- Acceptable for any plant layout
- Easily retrofitted to most existing waste paper pulping systems

# Detrashing the trash




## System components



### Hydraflow™ Trash Pump

Employing our proprietary recessed impeller, this unit efficiently moves rejects onward to the detrasher for further processing. It's small footprint is perfect for installation into tight locations and allows the detrasher to be installed in multiple locations.

### Hydraflow™ Continuous Lights Detrasher

Producing a constant output of low-density, light-weight rejects, this unit works alongside traditional continuous pulpers to maximize capacity, optimize yield, and protect downstream equipment.

### Cantilevered Drum Screen

This non-vibrating, low attrition tailing screen removes coarse debris and recovers water from reject loop. Maximizing stock recovery and dewatering of light rejects, it is well suited for both batch and continuous operation.

## 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

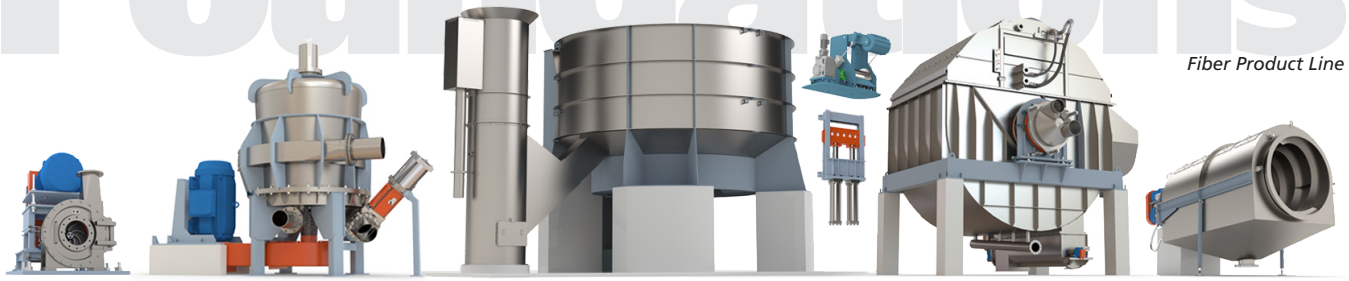
Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

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

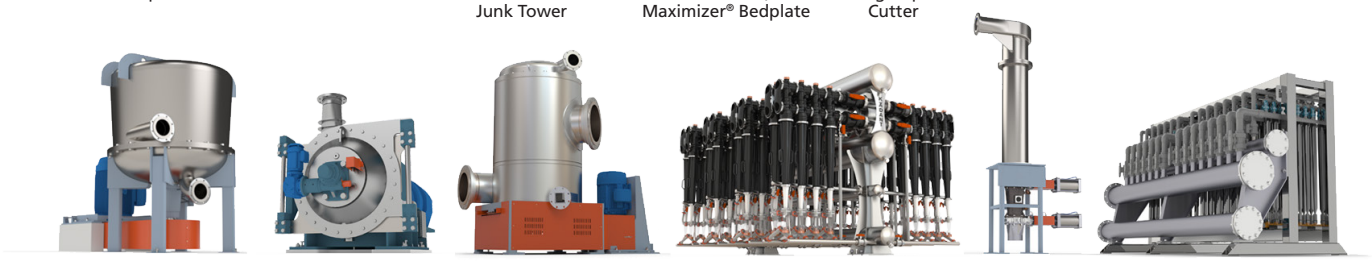
**The Kadant Foundations product line offers a full range of fiber processing equipment and services.**

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



Hydraflow Continuous Detrashing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