KĀDANT

FIBER PROCESSING

ScreenONE™ Fine Screening System

Delivers the high-efficiency performance of multiple machines in one cost-effective unit

Our unique ScreenOne 3-stage-in-1 screening solution is an integral part of Kadant's Compact Line.

ScreenONE™
Fine Screening System

Applications

- Stock preparation
- Broke systems

The ScreenONE is a multi-stage fine screening system in a single unit. Featuring patented ID-3TM technology in a 3-stage design, it delivers cost effective, high-efficiency screening. ScreenONE can replace up to five rotating machines in a single system, thus reducing installation costs, power consumption and maintenance costs. The unique ID-3 technology improves system yield thereby reducing landfill and furnish costs.

Operations

Stock enters ScreenONE from the bottom into the first screening zone. A junk outlet is located near the inlet port to remove heavy debris before it enters the screening chamber, reducing the possibility of damage to the rotor or screen cylinder. A variable speed drive helps ensure minimal energy consumption and maximum attainable efficiency.

In the first screening zone, accepted fiber moves to the accepts outlet while rejects continue their natural path upward to the second and then third screening zones. Patented ID-3 rotor and screen cylinder technology is utilized throughout the screen so that rejects reach each screening zone under ideal conditions to optimize operation in terms of throughput and efficiency. Depending on the application, accepts in the second (A2) and third (A3) zones can be sent forward in the system, thus improving system capacity.

ScreenONE uses an enclosed drum-style LE 3R™ rotor for high stickies removal efficiency and low energy consumption. The screen cylinder is a multi-sectional design with a separate section for each screening zone. Each cylinder section can be optimized for open area, slot size and profile depth. Slot sizes as small as 0.10mm can be utilized.

Benefits

High efficiency

- Three stages in one efficient machine utilizing ID-3 technology
- Tailing stage provides maximized fiber yield
- Designed for higher consistencies than most screens

Reduced installation cost

- Savings on peripherals, piping, and space

Reduced energy costs

- A single compact ScreenONE can replace up to 5 rotating machines

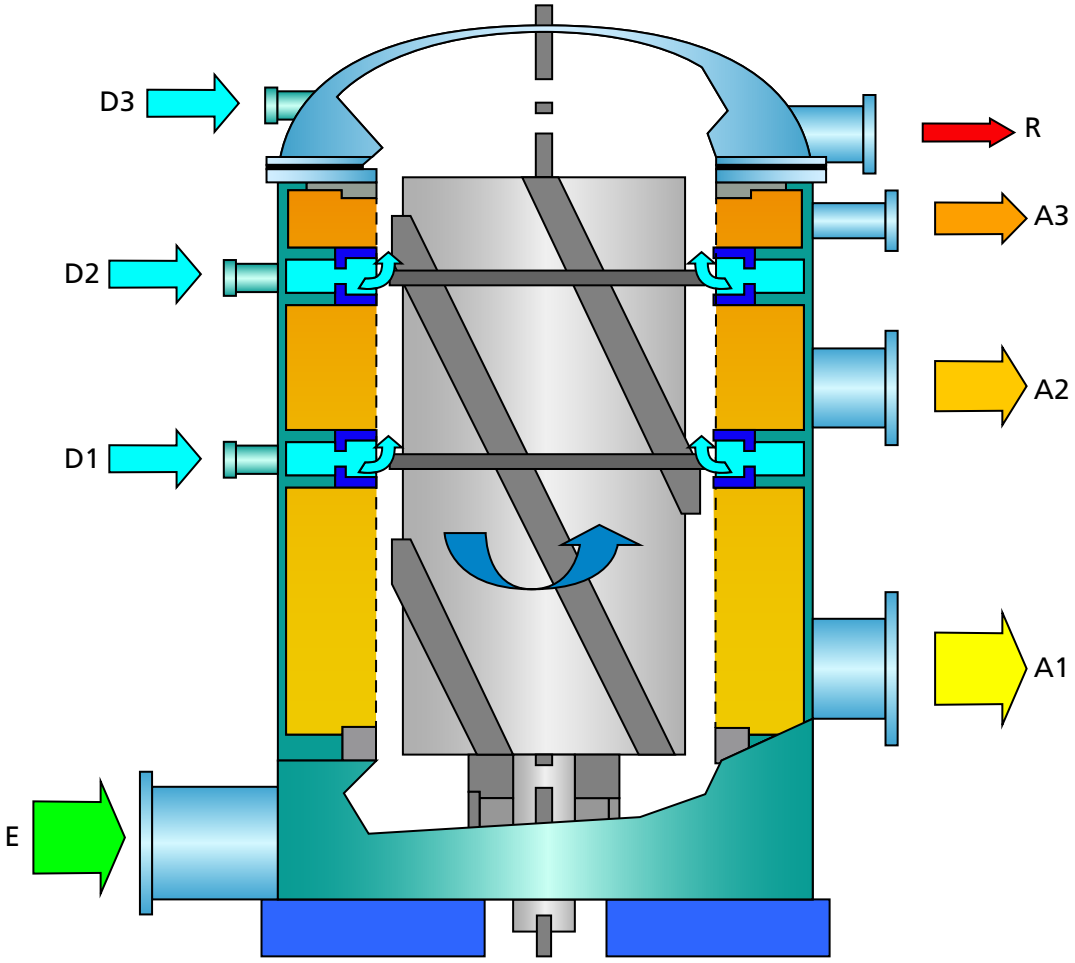
Reduced disposal costs

- Maximized fiber capture produces low reject rates

Reduced maintenance cost

- Modular design for quick and cost-effective wear part replacement

Flexible, compact, high efficiency screening at higher consistencies than most screens



A1, A2, A3: Accepts connection
D1, D2, D3: Dilution connection
E. Inlet connection
R. Reject connection

A compact deinked line from your pulper's detrashing solution can be fed directly into a fine-screen stage employing the ScreenOne, reducing the need for coarse screening.

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

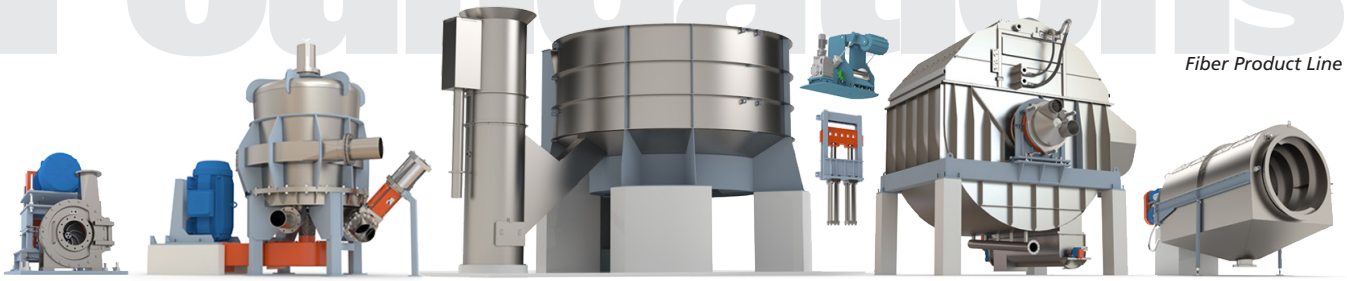
Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

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

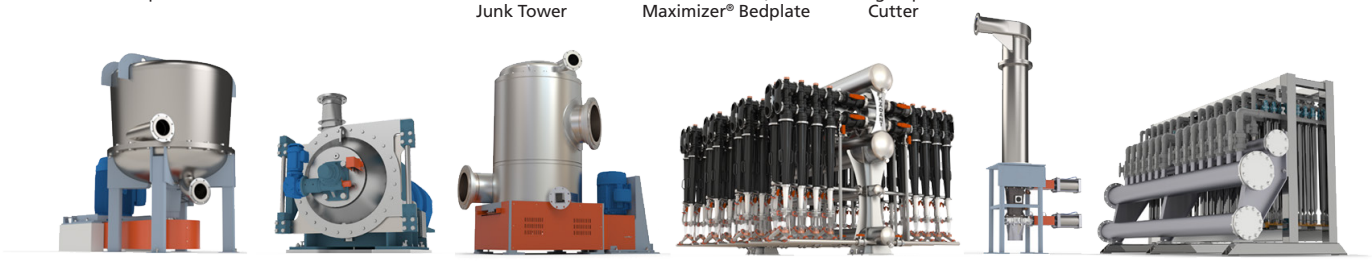
The Kadant Foundations product line offers a full range of fiber processing equipment and services.

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.

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