KĀDANT

FIBER PROCESSING

X-Clone™ NT Through-Flow Cleaner

Removes waxes, polystyrene foam, polyethylene, hot melt adhesives, and other light, floatable material from a variety of furnishes.

Compact, modular design provides easy access to individual cleaners.

X-Clone™ NT Through-Flow Cleaner

Effective removal of light contaminants and entrained air

The Kadant X-Clone NT cleaner utilizes the through-flow principle to remove typical low specific gravity contaminants such as waxes, polystyrene foam, polyethylene, hot melt adhesives, and other light, floatable material from a variety of furnishes. The upgraded NT series provides increased flow with greater velocity for a more efficient and cost saving process.

The through-flow operating principle means that light rejects and accepts discharge coaxially from the end opposite the feed. Since no macro flow reversal occurs, pressure drops of 15-20 psi (100 -140 kPa) and nominal hydraulic reject rates of 10% provide very effective removal of most light debris at feed consistencies.

Additionally, since the air core is only in communication with the reject stream, excessive entrained air is also removed. A two-stage X-Clone NT cleaning system requires only 0.3 – 0.5 hp/d/t (6-10 kWh/mt) pumping energy due to its low pressure drop and low hydraulic reject rate.

Yield-increasing efficiency and cost-saving flexibility

Benefits

- **Cost saving efficiency** Increased flow and velocity upgrade gives you several ways to save
- **Retractable vortex finder** allows oversized debris to be easily flushed out
- **Compact, modular design** provides easy access to cleaners
- **Shipped completely assembled,** ready to install and operate
- **Rugged construction** — All wetted and structural parts constructed from 316L stainless steel, reinforced plastic, and ceramic
- **Rejects can be pressurized** if required

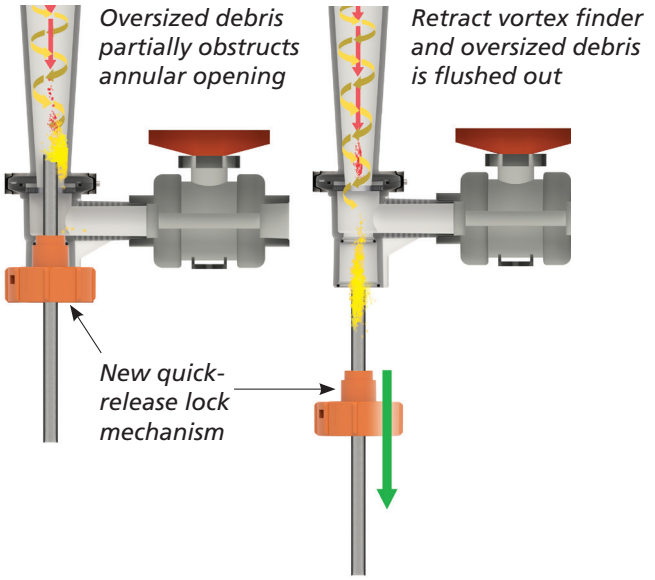
Increased capacity and greater velocity for more cleaning action

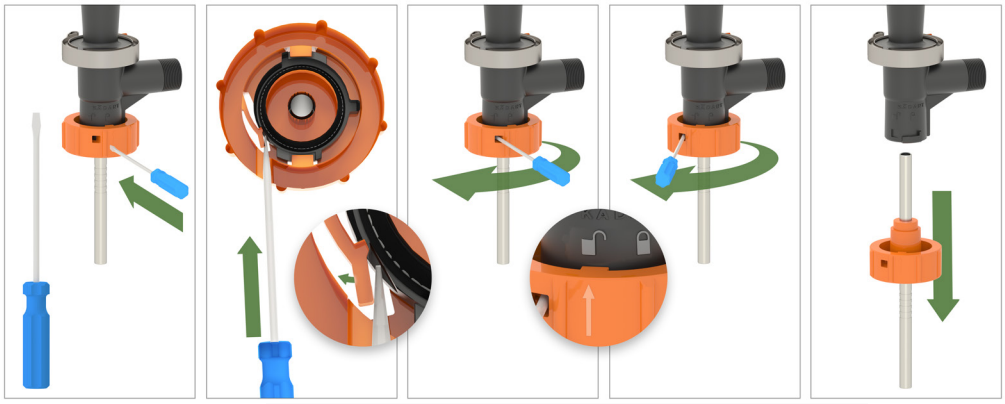
Eliminates plugging - Retractable vortex finder allows oversized debris to be quickly and easily flushed out

The gap between the apex diameter and the vortex finder on small diameter through-flow cleaners is typically 0.25" (6.5mm). Since occasional strings or gross contaminants could cause an obstruction, the X-Clone NT is equipped with a retractable vortex finder. The vortex finder is held firmly in place with a bayonet lock mechanism that can be quickly and safely released to flush oversized debris.

Rejects are normally atmospherically discharged but can be pressurized to allow installation on the same floor as the next stage pump. Pressurized rejects can also be used to control reject volume in cases where relatively high cleaner accept pressure is required.

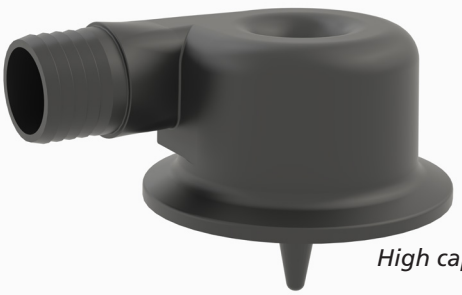
Banks of cleaners are available with feed flows from 300-3600 gpm (1135 – 13,600 lpm).





Removing the vortex finder

New design delivers more and simplifies maintenance



High capacity inlet head

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
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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.

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

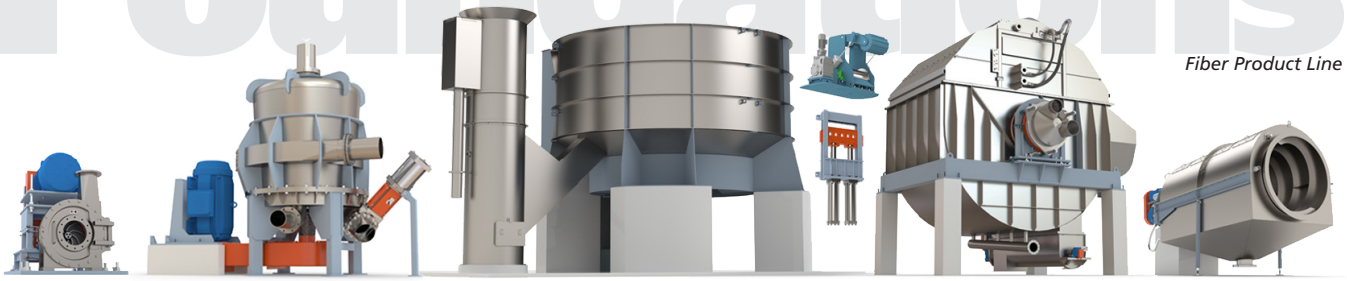
Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

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

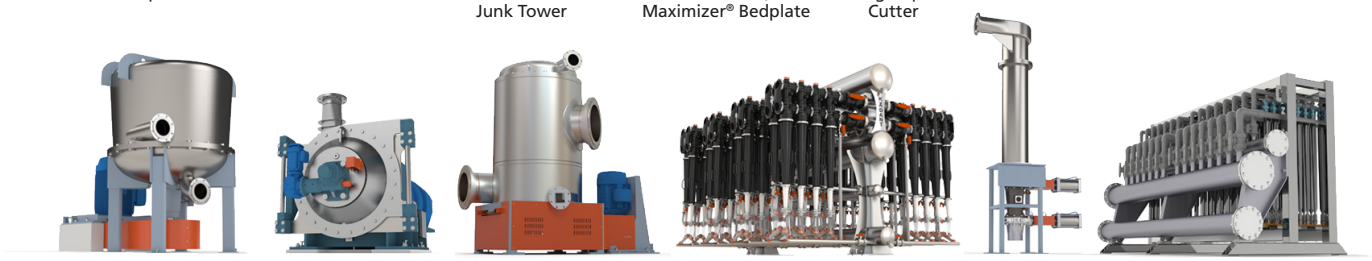
The Kadant Foundations product line offers a full range of fiber processing equipment and services.

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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