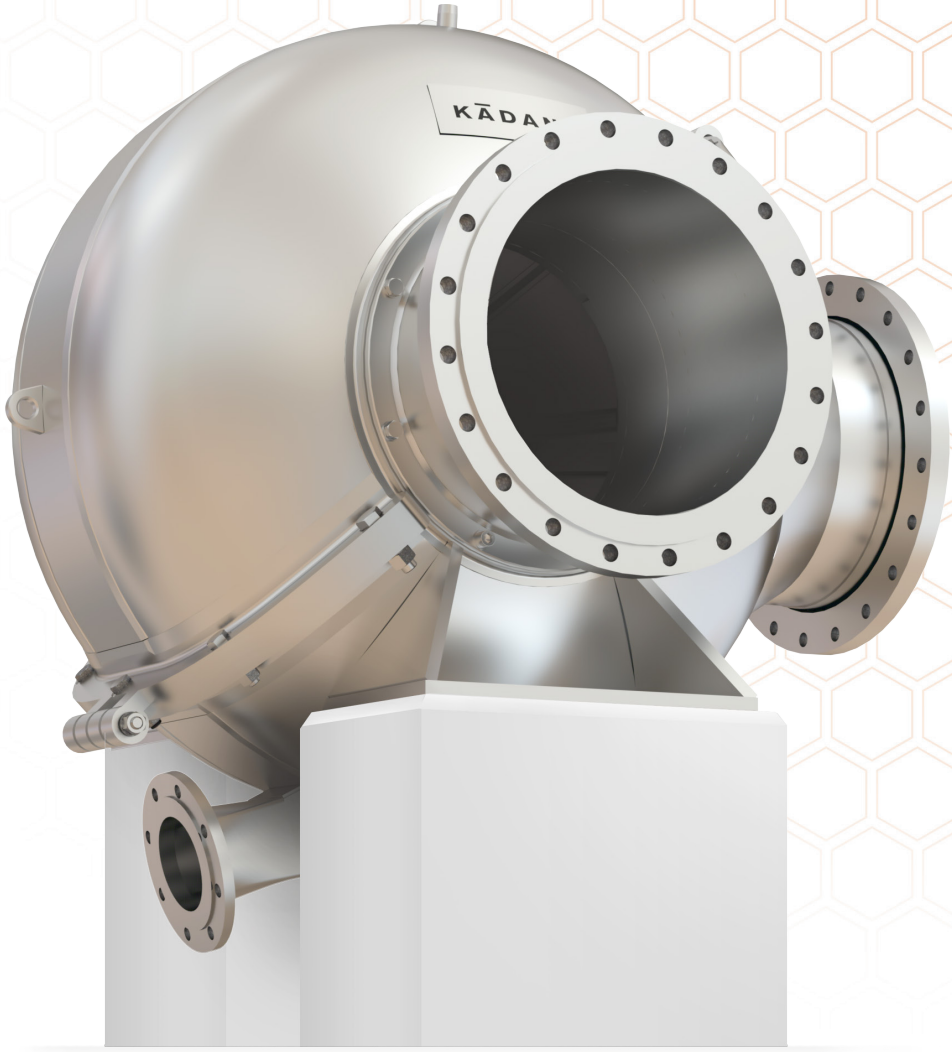
KÄDANT

FIBER PROCESSING

Radiscreen-C™ Coarse Screen

Efficiently removes heavy weight contaminants in pulp, stock preparation, and paper machine approach flow systems

Cost-effective alternative to high density cleaners, traditional cylindrical coarse screens, and magnetic separators



Radiscreen-C
Coarse Screen

High capacity screening

The Radiscreen-C coarse screen provides high hydraulic capacity and is used for all stock types and applications. The design is optimized to maximize efficiency and flow while serving as a highly efficient protection screen for downstream equipment.

Bale Wire Screening

The Radiscreen-C coarse screen serves as an efficient screen for removal of bale wire and protection of refiners, deflakers, and other downstream equipment in virgin pulp stock preparation systems. This also provides the basis for improved LC refining conditions.

Process Equipment Protection

The Radiscreen-C coarse screen is also used for efficient removal of coarse contaminants and protection of cleaning and screening systems, refiners and deflakers, and other downstream equipment in pulp and paper machine approach flow systems.

High Energy Efficiency

The Radiscreen-C coarse screen's stable operation and high energy efficiency is achieved through the radially increasing peripheral velocity of the rotor vanes. As a result, the rotor speed can be kept low, which leads to exceptionally low power consumption.

Reliable Operation at High Capacities

The Radiscreen-C coarse screen is designed for high hydraulic capacity providing stable operation, high runnability, and maximum availability at high flow rates.

Low Maintenance Costs

The Radiscreen-C's optimized design ensures easy access to exchangeable wear parts, which keeps downtime during maintenance to a minimum.

Benefits

Low power consumption
Optimized and functional design ensures low energy consumption at high operational reliability.

High consistency screening
For consistencies up to 5%.

Compact design with small footprint
Minimizes total investment cost and required floor space.

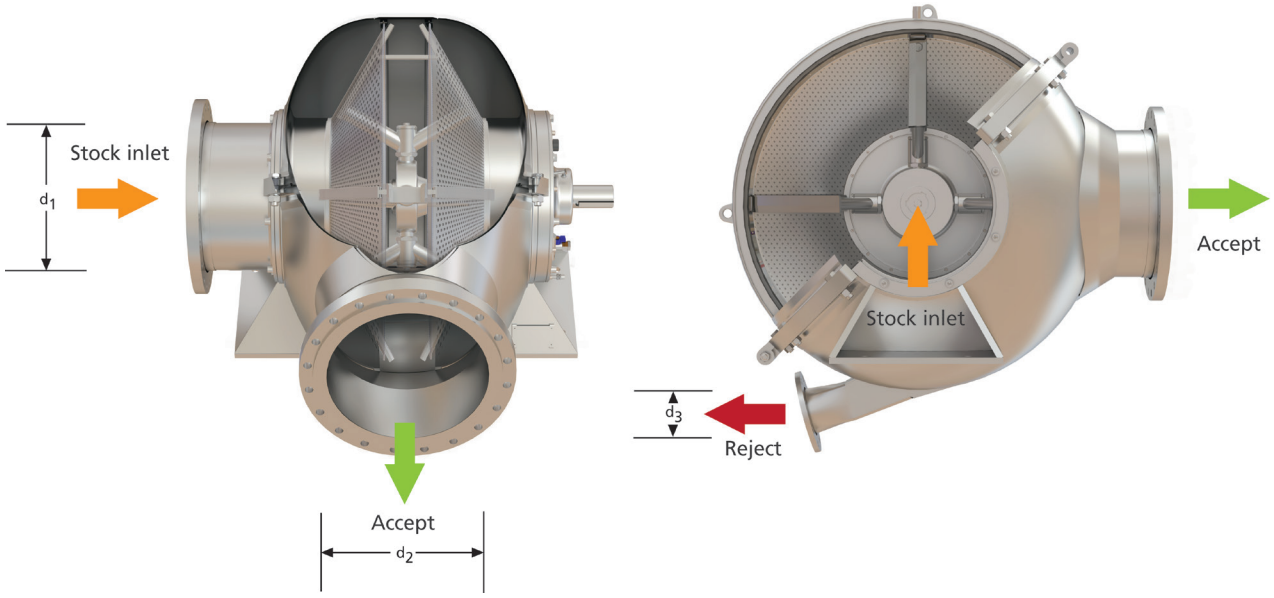
Low maintenance costs
Durable design means low maintenance and maximum uptime.

Advanced design
For excellent runnability and less wear and tear on screening barrier and rotor vanes.

Trouble-free operation
Smooth performance at high capacities.

Typical Radiscreen-C coarse screen reject

Customized design



This easily installed, compact unit is available in different models.

Model Size	Screening area m^2	Stock inlet dia d_1 mm	in	Accept dia d_2 mm	in	Reject dia d_3 mm	in
C 630D	0,37	200	8	200	8	80	3
C 800D	0,61	300	12	300	12	80	3
C 1000D	0,97	400	16	400	16	150	6
C 1250D	1,70	500	20	500	20	150	6
C 1600D	3,02	600	24	600	24	200	8
C 2000D	4,93	700	28	800	32	250	10
C 2500D	7,56	1000	40	1100	44	300	12

Specifications and information subject to change without notice. General dimensions and not certified for construction or installation.

Easy maintenance

All components of the Radiscreen-C coarse screen are designed with maintenance in mind to minimize down-time and costs.

The screen housing can be opened in a simple procedure, giving quick access to exchangeable spare parts such as screen discs, vanes, and the rotor hub.

As a great advantage, the screen disc segments can be replaced individually as opposed to cylindrical screens where the complete screen cylinders must be replaced.

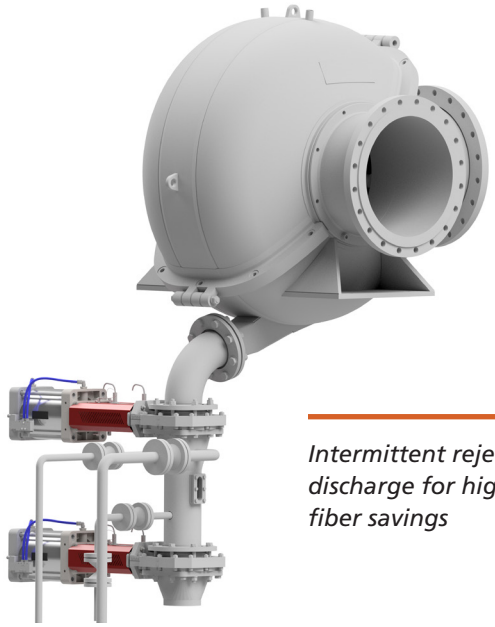
Wear parts are easily accessible, which enables simple and time-saving replacement.

Modern, compact footprint for flexible installations

Radiscreen-C coarse screen installation

Advanced Design Features

The conical screen disc design ensures the shortest possible path to the reject zone. Centrifugal forces direct the heavy contaminants towards the reject zone and prevent recirculation. In combination with the open rotor vane design and large radius of curvature of the screen disc segments, excellent runnability and less wear and tear on the screening barrier and rotor vanes is ensured.



Intermittent reject discharge for highest fiber savings

Compact Installation

For both new installations as well as replacements, a critical limitation for the installation of a high capacity coarse screen is often the available space. Radiscreen-C coarse screen has been designed to ensure the smallest footprint possible. This enables very compact and space-saving installations and minimises the total investment costs considerably.

Space-saving installation reduces the overall investment cost

Intermittent Reject Discharge

Radiscreen-C coarse screening systems are normally equipped with an intermittent reject discharge assembly for maximum fibre recovery even at high inlet consistencies.

Protect your process equipment

Efficient removal of coarse contaminants reduces wear and tear on process equipment. This eliminates the risk of damaging and prematurely wearing expensive refiner plates, cleaners, fine screening baskets, and rotors.

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

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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