

# HDC™ High Density Cyclone

For efficient separation of heavy-weight impurities

## High Separation Efficiency

The HDC high density cyclone is designed for most efficient separation of abrasive, heavy-weight impurities such as sand, grit, glass, and metal. It ensures a cleaner furnish and can be installed as a complement to other pulp cleaning or screening equipment and to protect rotating equipment from wear. The HDC high density cyclone is suitable for all pulp types.

### Benefits

- Low power consumption
- Reliable operation
- Easy, low cost maintenance
- High separation efficiency
- Compact and robust design
- Minimal fiber losses
- Optimized flow characteristics
- Easily replaceable, wear resistant inner cone
- Protects key process equipment
- Fully automated intermittent reject discharge sequence



*Optimized design for efficient separation*

## Optimized Inlet Head

The inlet head is designed for optimized flow characteristics providing low pressure drop, reduced energy consumption, and high separation efficiency.

## Beneficial in Many Applications

A typical application for the HDC high density cyclone is in the tail-end of a fine screening system, or in a cleaning system, where heavy-weight particles need to be removed efficiently in order to improve quality and to minimize wear on screen baskets and rotors, etc. It can also be used for sand separation in chip washing circuits.

The compact design allows installation directly in the piping system.

## Flexible Reject Handling Concept

The HDC high density cyclone can be operated either with intermittent, semi-continuous, or continuous reject discharge.

This flexible reject handling concept minimizes fiber losses and ensures that your valuable fibers don't go to waste.

## Excellent Wear Resistance

An outer cone of durable, high-quality stainless steel and an inner cone of wear resistant plastic material ensure smooth performance and a long lifetime.

## Easy Maintenance

The easily replaceable inner cone enables efficient and cost-effective maintenance.

# Functional design



Model Size	Height H		Stock inlet dia d <sub>1</sub>		Accept dia d <sub>2</sub>		Reject dia d <sub>3</sub>	
	mm	in	mm	in	mm	in	mm	in
150	720	28	65	2 1/2	65	2 1/2	80	3
200	960	38	80	3	80	3	80	3
250	1,220	48	100	4	100	4	80	3
300	1,430	56	100	4	150	6	100	4
350	1,790	70	125	5	150	6	100	4
410	1,840	72	150	6	200	8	150	6

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

For patent information about this and other Kadant products visit <https://kadant.com/en/patents>

# KADANT



[fiberprocessing.kadant.com](https://fiberprocessing.kadant.com) Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

KADANT BLACK CLAWSON LLC  
1425 Kingsview Drive  
Lebanon, OH 45036

Tel: +1-513-229-8100  
Fax: +1-513-229-8194  
Email: [info@kadant.com](mailto:info@kadant.com)

HDC High density cyclone (US)  
©2023 Kadant Black Clawson LLC  
01/2023