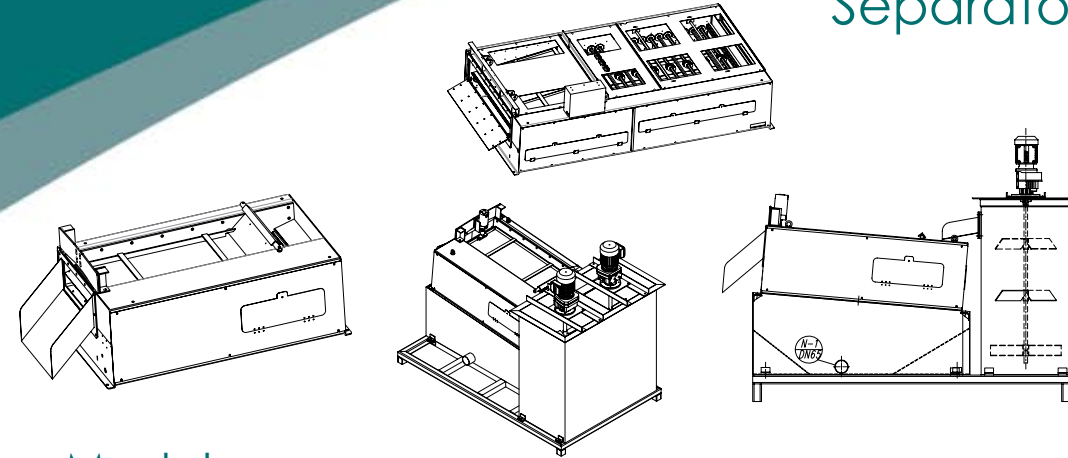




## KDS Dewatering Separator



## KDS Thickener Models

Model	DN	Oval discs column numbers	Capacity (clean water) m3/h	Sludge (reference) kg-DS/h	Power	Weight
SS-310	300mm	10	18	41	0.1kw	100kg
SS-312	300mm	12	23	49	0.2kw	110kg
SS-48	400mm	8	20	45	0.2kw	130kg
SS-410	400mm	10	25	56	0.2kw	150kg
SS-412	400mm	12	30	67	0.2kw	200kg
SS-510	500mm	10	31	70	0.2kw	200kg
SS-512	500mm	12	38	83	0.2kw	210kg
SS-516	500mm	16	50	109	0.4kw	240kg
SS-610	600mm	10	38	85	0.4kw	210kg
SS-612	600mm	12	45	100	0.4kw	230kg
SS-616	600mm	16	60	130	0.4kw	300kg
SS-618	600mm	18	67	145	0.4kw	315kg
SS-712	700mm	12	74	160	0.4kw	380kg
SS-716	700mm	16	100	215	0.4kw	410kg
SS-812	800mm	12	86	185	0.75kw	410kg
SS-816	800mm	16	114	245	0.75kw	440kg
SS-912	900mm	12	98	210	0.75kw	440kg
SS-916	900mm	16	128	275	0.75kw	470kg
SS-1012	1000mm	12	107	230	0.75kw	470kg
SS-1016	1000mm	16	144	310	1.5kw	600kg
SS-1212	1200mm	12	130	280	1.5kw	600kg
SS-1216	1200mm	16	172	370	1.5kw	640kg

## KDS Dewatering Models

Model	DN	Oval discs column numbers	Capacity (1.5%SS) m3/h	Sludge (reference) kg-DS/h	Power	Weight
SS-311D	300mm	11	1.3-2.0	20-30	0.4kw	120kg
SS-411D	400mm	11	1.8-2.6	27-40	0.4kw	200kg
SS-511D	500mm	11	2.2-3.4	34-51	0.4kw	240kg
SS-611D	600mm	11	2.6-4.0	40-60	0.4kw	320kg
SS-711D	700mm	11	3.1-4.6	47-70	0.75kw	380kg
SS-811D	800mm	11	3.8-5.3	57-80	0.75kw	410kg
SS-1011D	1000mm	11	4.5-6.8	68-102	1.5kw	570kg
SS-1211D	1200mm	11	5.3-8.0	80-120	1.5kw	750kg



Distributor/Dealer

### TRIDENT Equipment

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# TRIDENT KDS Separator



A "Unique" separation technology

Sludge Dewatering Technology Experts



# TRIDENT KDS Separator



## Introduction

This unique material separation technology offers a very effective alternative to conventional solid/liquid separation systems. Slow moving discs gently move the material through the separation surface achieving high capacities and excellent capture rates. This provides very effective material separation, a small footprint and very low opex superior to centrifuge or belt press technology. The sludge cake can be generated in a batch processing method, or the system can run 24/7. The KDS material separator technology is scalable to suit multiple applications and varying volumes of material.

## Features

### Non clogging

Continuous counter rotating discs perform self-cleaning

### Stable, reliable treatment capacity

Continuous self-cleaning process ensures consistent throughput of material

### Large throughput capacity, with a small footprint

Material moves in waves, advanced by oval plates

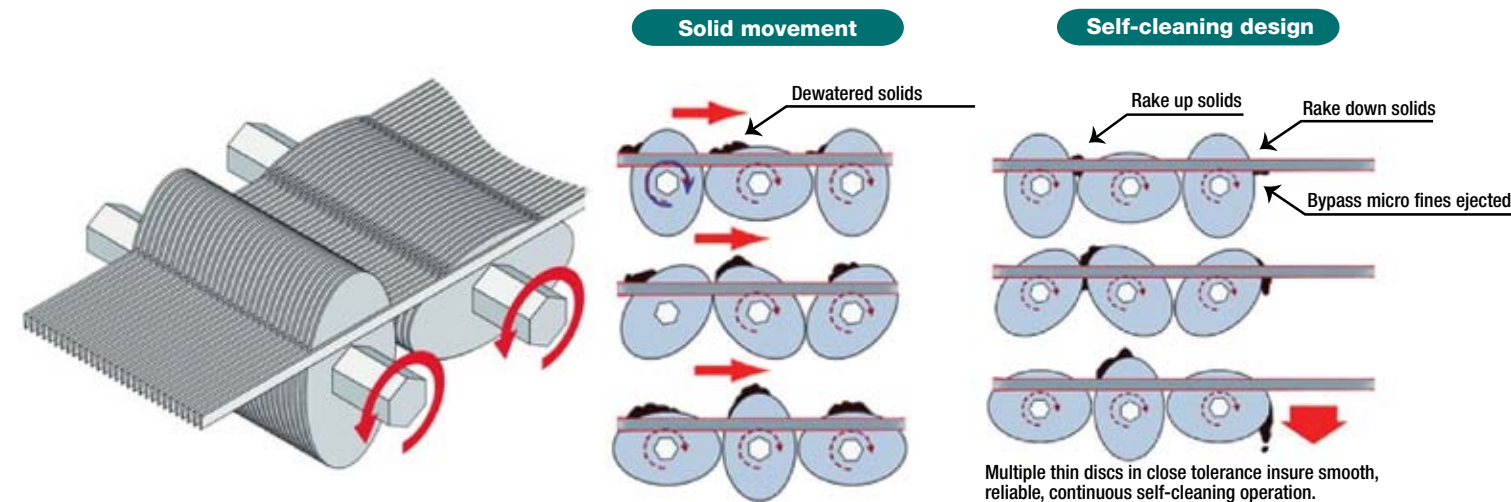
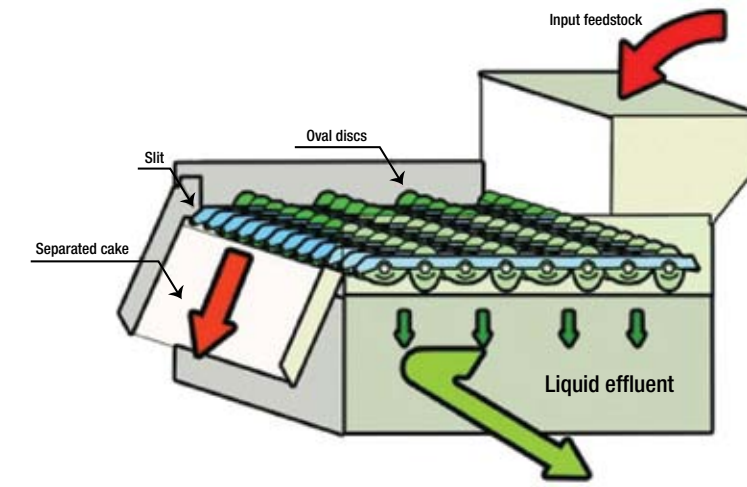
### Simple, low energy operation

Efficient, variable speed drives, optimizing the material handling process.

### Easy maintenance

Simple drive with minimal parts, located internally, away from the material being processed. The operation is quiet and vibration free.

## Separation Technology



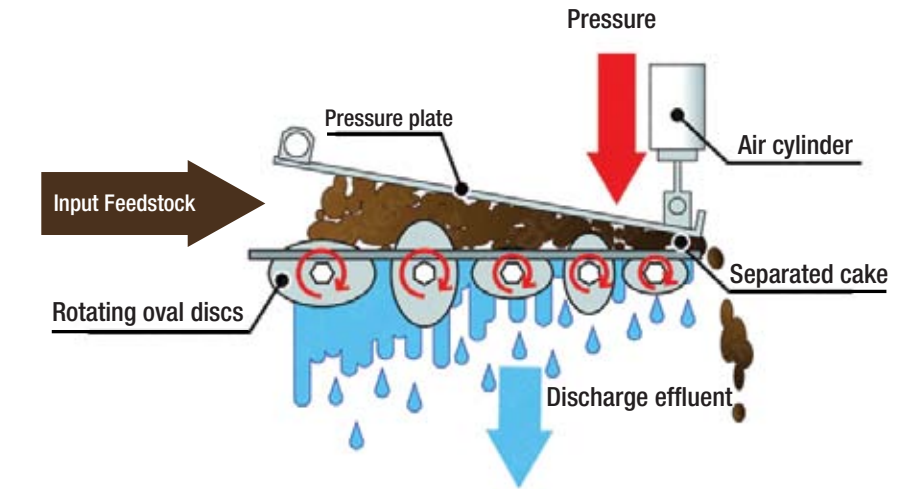
## Separation Process



The standard design includes 0.5mm tolerance. Units can be built to order with variations, and design tools are available. Please contact us for details and quotation.

\*Note input feedstock used in demonstration pictures was a mix of vegetables, fish and meat. Maceration was performed by the food processor client.

## How it works – Dewatering Separator



The oval shaped discs are designed to deliver waves of high volume, consistent, separated material. The operation is quiet and vibration free.

## Applications

- Headworks (Pre-treatment) of municipal wastewater operations
- Waste Activated Sludge, DAF aerobic digested sludge
- Distillers grain applications (breweries, ethanol)
- Primary treatment of grease trap wastes
- Fish and Food Processing
- Livestock manure

This equipment has a wide range of applications, and is used successfully in diverse situations, e.g. Paint and coatings effluents, tanneries, metal processing industries, algae harvesting (primary and sediment sludge treatment)

