

KDS Separator

Multi-disc Roller Separator



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Clog-free

Self-cleaning structure of KDS Separator can handle oily and fibrous material at ease.

Trouble-free

Trouble free operation of KDS Separator allows automatic, continuous operation.

Small-footprint

Smallest model of KDS Separator takes up less than 0.2m².

Low Operating Costs

KDS Separator consumes as low as 0.06kW and "ZERO" rinsing water is required.



Highly Efficient Self-cleaning Separator

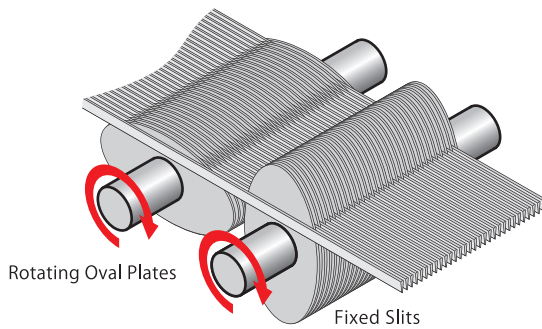
It is a simple, compact, efficient, and unprecedented solid liquid separator with so many advantages.

Various Applications

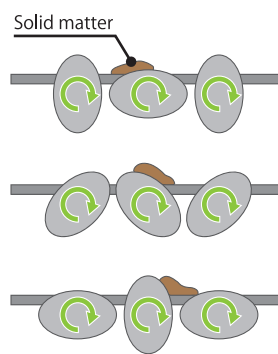
KDS Separator can be used for wastewater, sludge, livestock manure, food waste, algae, grease trap waste and more!



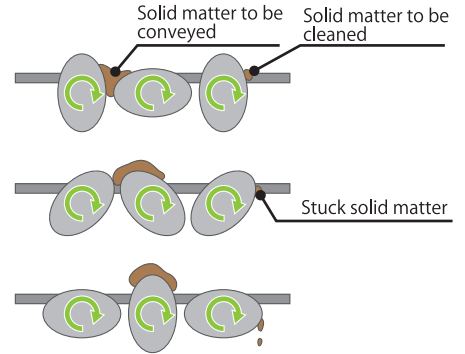
Structure



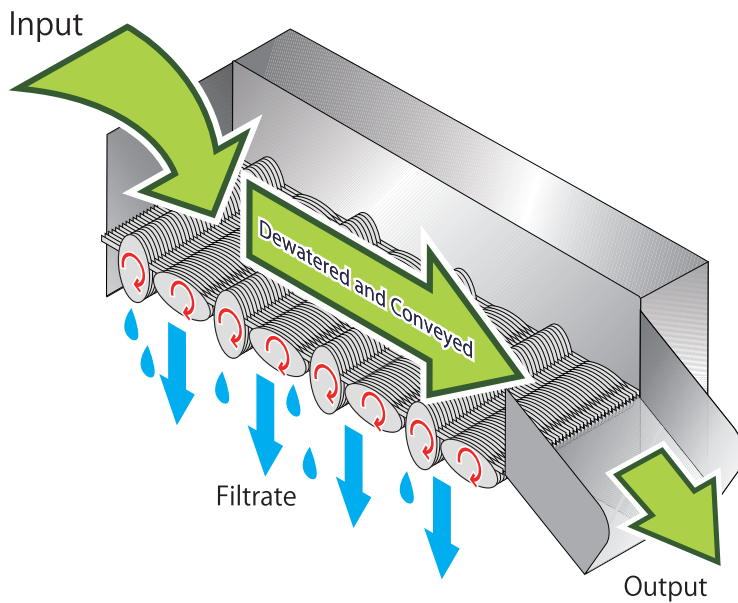
Dewatering and Conveying



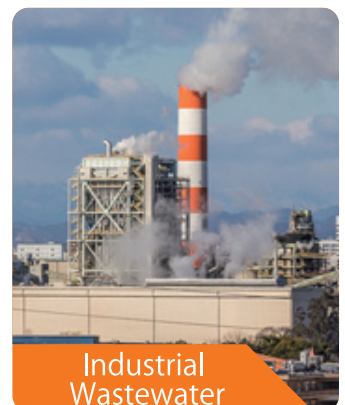
Secret of Self-cleaning Mechanism



Oval plates push down the stuck solid matter to keep the filtering zone clean.



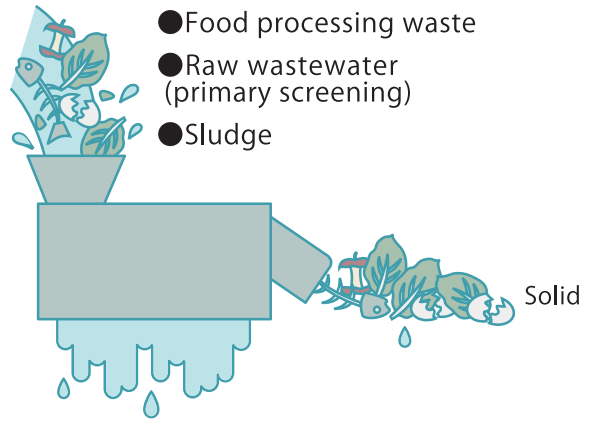
Applications



KDS Separator Applications

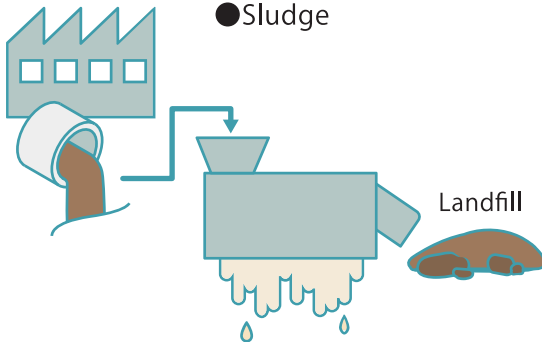
Food industry

- Kitchen and restaurant waste
- Food processing waste
- Raw wastewater (primary screening)
- Sludge



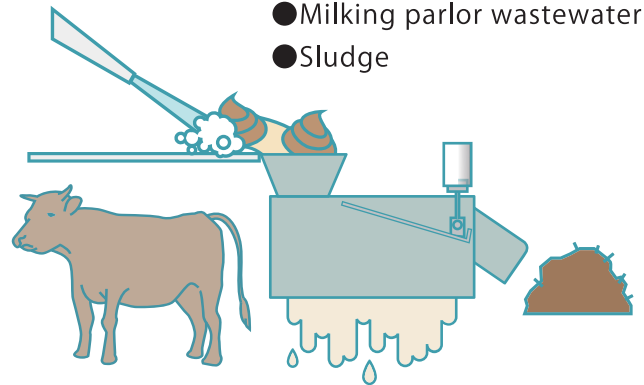
Sewage Treatment

- Raw wastewater (primary screening)
- Sludge



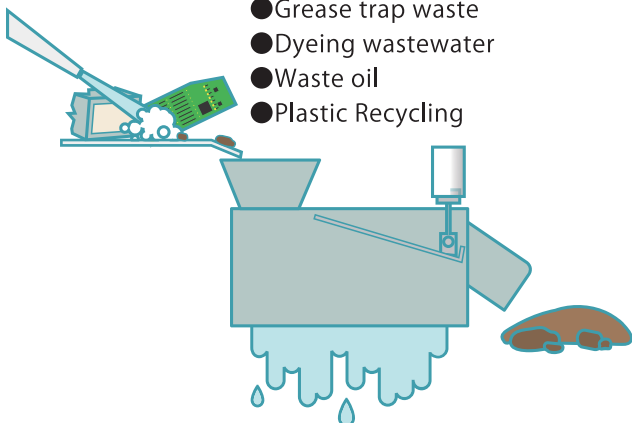
Cattle Farm

- Raw manure
- Milking parlor wastewater
- Sludge



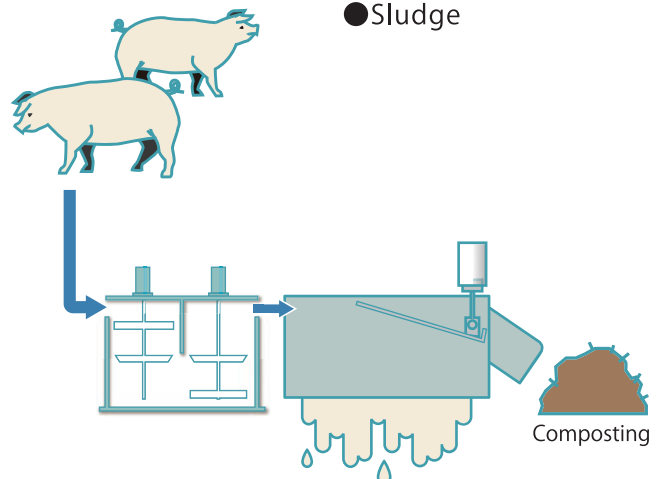
Others

- Barrel polishing water
- Water-based paint wastewater
- Grease trap waste
- Dyeing wastewater
- Waste oil
- Plastic Recycling



Pig Farm

- Raw manure
- Sludge



KDS Separator References



Digested Sludge

Dewatering of digested sludge from a biogas plant.

Solids capture rate: 99.3%

Cake dryness: 21.7%



Seafood Processing Waste

Oily fish waste captured by grease trap in wastewater treatment.

Flow rate: 40m³/h

Dry solids throughput: 150kg-DS/day



Livestock Manure

Dewatering of livestock manure without polymer usage

Solids capture rate 64% (no polymer used)

Cake dryness 24.2%

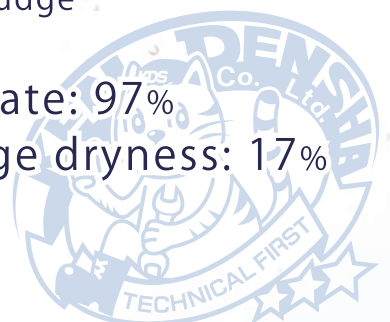


Dissolved-air Flotation Sludge

Thickening of DAF sludge

Solids capture rate: 97%

Thickened sludge dryness: 17%

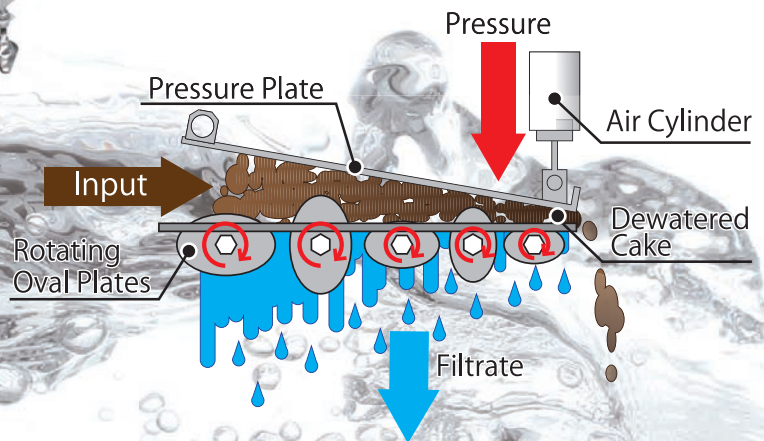


Specification



Standard Performance

Input	Cake Dryness
Cattle Manure	25-35%
Pig Manure	20-30%
Waste Activated Sludge	15-25%



Dewatering Model

Model	Roller Width [mm]	Number of Rollers	DS Throughput [kg-DS/h]	Power Consumption [kw]	Hydraulic Capacity (input solids content: 2%) [m³/h]	Dimensions [mm]
SS-311D	280	11	20~30	0.2	1~1.5	W612-L1170-H400
SS-411D	380	11	30~40	0.4	1.5~2	W712-L1170-H400
SS-511D	480	11	40~50	0.4	2~2.5	W812-L1170-H400
SS-611D	580	11	50~60	0.4	2.5~3	W912-L1170-H400
SS-811D	780	11	60~75	0.4	3~3.75	W1160-L1354-H465
SS-1011D	980	11	70~85	0.75	3.5~4.25	W1360-L1714-H465
SS-1211D	1180	11	80~95	0.75	4~4.75	W1560-L1714-H465

Note: Capacity above is solely estimate and it may vary depending on the element and concentration of the input. Above capacity is for the standard model with 1.0mm filtering gap.

Thickening Model

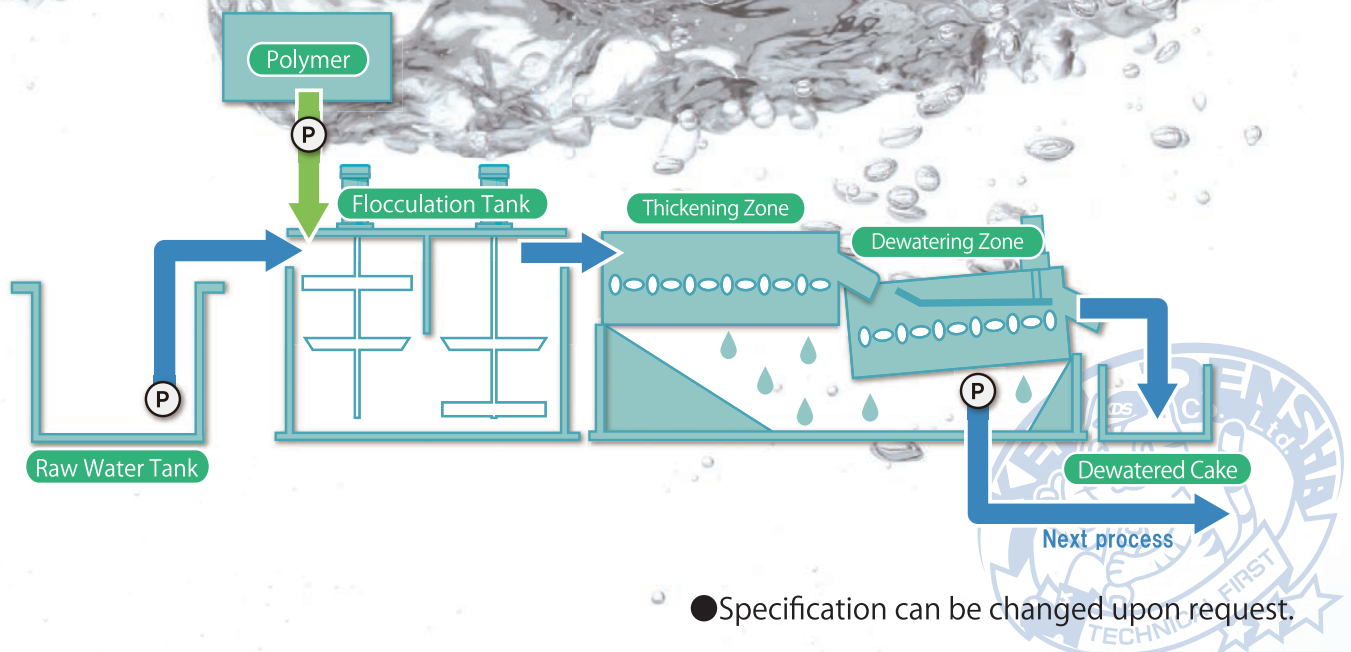
Filtering Gap 1.0 mm

Model	Roller Width [mm]	Number of Rollers	DS Throughput [kg-DS/h]	Power Consumption [kw]	Hydraulic Capacity (input solids content: 2%) [m³/h]	Dimensions [mm]
SS-2.56	236	6	20	0.06	1	W359-L536-H174
SS-312	280	12	49	0.2	2.45	W612-L1150-H400
SS-412	380	12	59	0.2	2.95	W712-L1150-H400
SS-512	480	12	83	0.2	4.15	W812-L1150-H400
SS-612	580	12	100	0.4	5	W912-L1150-H400
SS-616	580	16	130	0.4	6.5	W912-L1483-H400
SS-812	780	12	210	0.75	10.5	W1160-L1450-H465
SS-912	880	12	230	0.75	11.5	W1260-L1450-H465
SS-1212	1180	12	310	0.75	15.5	W1560-L1450-H465

Note: Capacity above is solely estimate and it may vary depending on the element and concentration of the input. Above capacity is for the standard model with 1.0mm filtering gap.

Process Diagram

KDS Separator Flocculation Model



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For Your Safety

● Be sure to read the instruction manual thoroughly before using the equipment.

- Please note that specification, dimensions or design of the equipment may change without advance notice.
- Please note that the actual color of the equipment may differ from the one in brochure due to printing quality.

