KDS Separator

Multi-disc Roller Separator

CST Wastewater Solutions

Clog free

The self-cleaning structure of the KDS separator can handle oily and fibrous materials at ease.

Problem-free

The KDS Separator allows automatic, continuous operation.

Small Footprint

The smallest model of the KDS Separator takes up less than 67 cm

Low Operating Costs

*Separator Consumes as low as 0.06kW and "ZERO" rinsing water is required.*

Highly Efficient Self-Cleaning Separator

A simple, compact, efficient and unprecedented solid liquid separator with so many advantages.
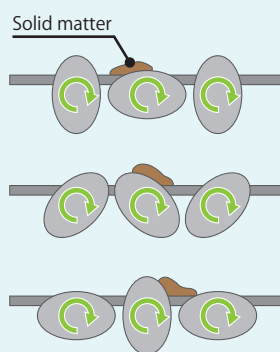
Various Applications

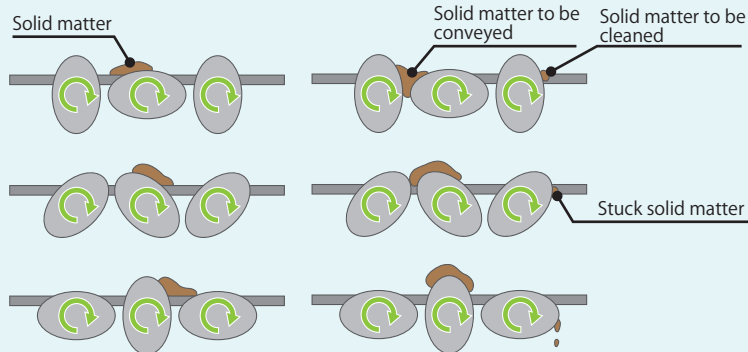*The KDS Separator can be used for wastewater, sludge, livestock manure, food waste, algae, grease trap waste and more!*
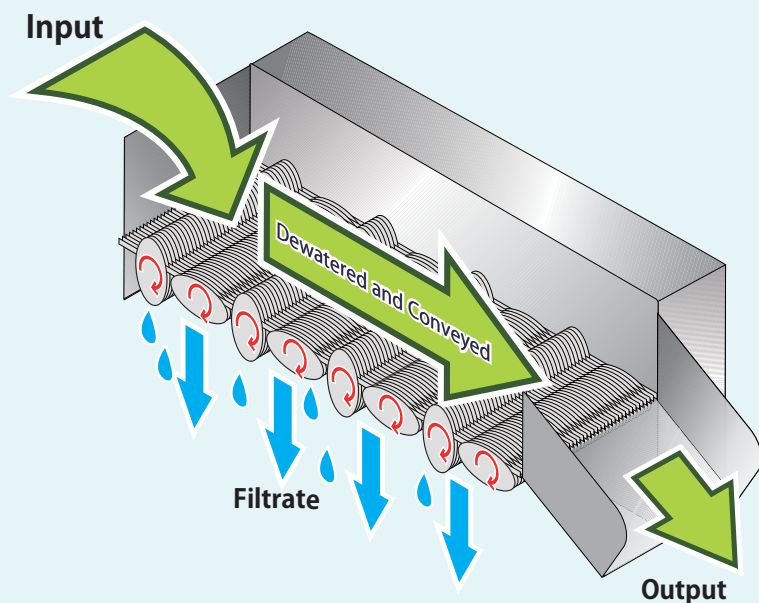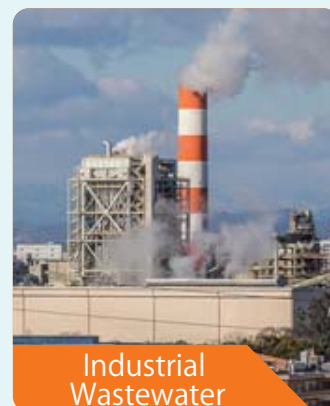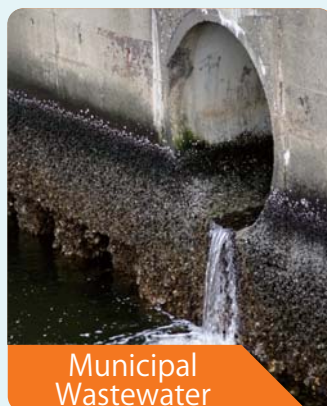
Structure

Rotating Oval Plates

Fixed Slits
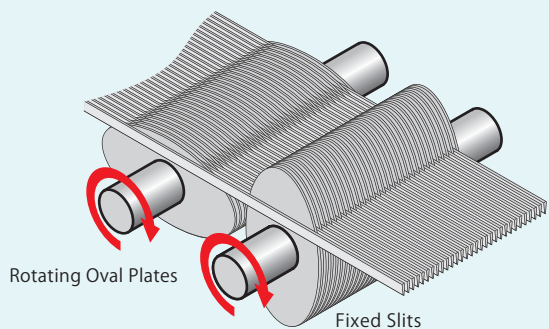
Dewatering and Conveying

Solid matter

Secret of Self-cleaning Mechanism

Solid matter to be conveyed

Solid matter to be cleaned

Stuck solid matter

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

Input

Dewatered and Conveyed

Filtrate

Output

Input

Output

Filtrate

Applications

Food Processing

Livestock Manure Treatment

Municipal Wastewater

Industrial Wastewater

KDS Separator Applications

Food industry

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

固形分

Sewage Treatment

- Raw wastewater (primary screening)
- Sludge

Landfill

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
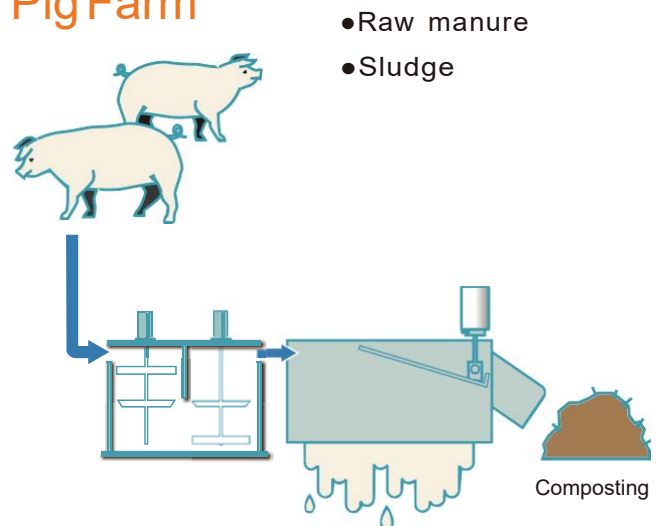
Composting
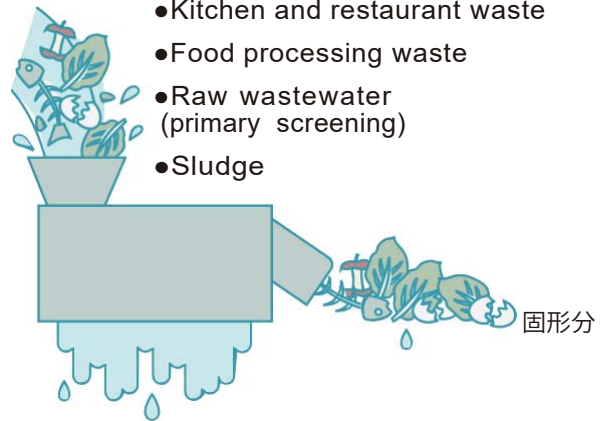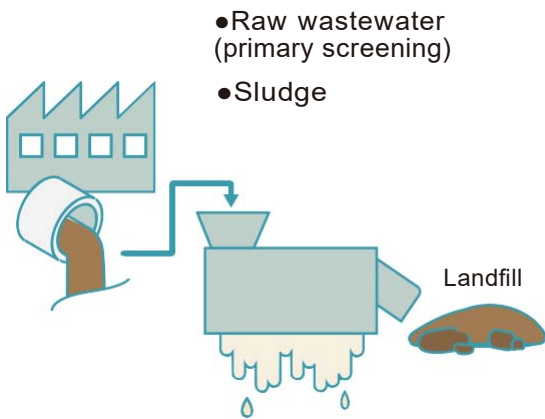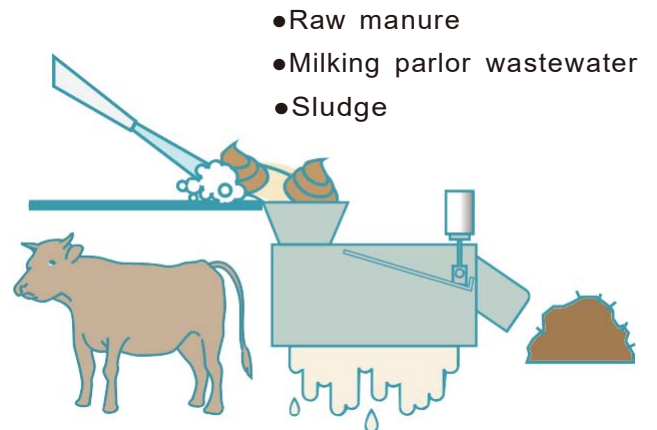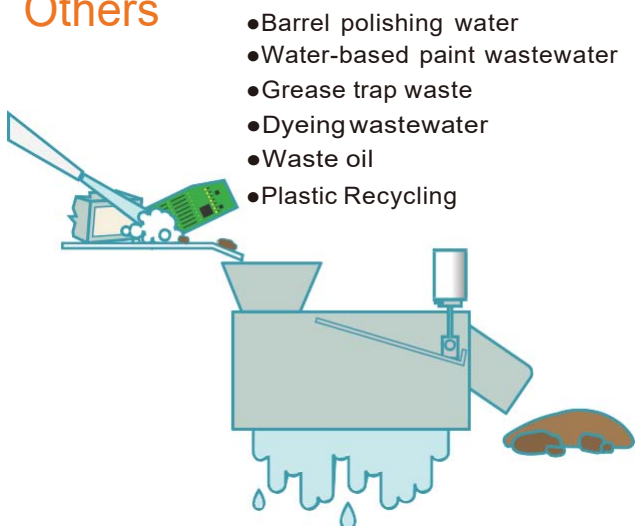
KDS Separator References

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: 39,974 litres

Dry solids throughput: 149.7kg-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%

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