

ZAC de l'aubinière 80 Impasse Félix Amiot - Cs 10258 44150 ANCENIS Tél.: 02.40.09.70.09 Fax: 02.40.09.70.02

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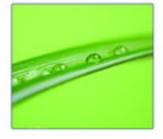




Solid-Liquid Separation **KDS** Dewatering Press











COMPANY PROFILE

Beneny Co., Ltd. is a company with over 40 years of experience in environmental technologies with its headquarters in China, research center in Japan and overseas marketing center in the Philippines. "Benenv" is named after our mission to aid for the "Benefit the Environment", meaning to foster and promote our environmental protective technologies and equipment, ultimately contributing to a greener world.

Benenv focuses on design, engineering, supply and installation of domestic and commercial water, wastewater and sewage treatment systems, and other environmental engineering. Our product lines include MDS dewatering series, KDS dewatering series, electric osmosis equipment, sludge drying machine, sludge incinerator, membrane bioreactor and other wastewater treatment equipment.

Equipped with manufacturing facility and experienced design and service team, Benenv is able to offer our customers competitive integrated sludge & wastewater treatment solutions as design, equipment supply, constructions, and technology innovation. We are highly qualified of delivering turnkey and BOT projects of hazard wastewater treatment for any industry.

Company has got international qualifications as ISO9001:2008, CE mark, etc. national awards as Utility Model Patent for MDS series, KDS series and MBR, etc., and High-tech Enterprises Qualification, etc. Our company is also working closely with top 10 universities and government organizations in China and Japan to keep our cutting-edge technology abreast with the latest technology and transform science and technology into productivity.

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Sludge Dewatering Technology Expert

KDS Introduction



KDS dewatering press is a solid-liquid separator machine with self-cleaning function by slits opposite continuous rotation, no vibration and noises.

■ Features

No clogging and backwash

Solid-liquid separation and self-cleaning are carried out simultaneously by slits opposite continuous rotation.

Stable treatment capacity

Continuous cleaning process avoids the problem of treatment capacity reduction in other type dewatering machines.

Large transport load

Smooth rotation in a wave-shape of oval discs enables high transportload.

Easy maintenance

Since structure is quite simple, maintenance is also very easy.

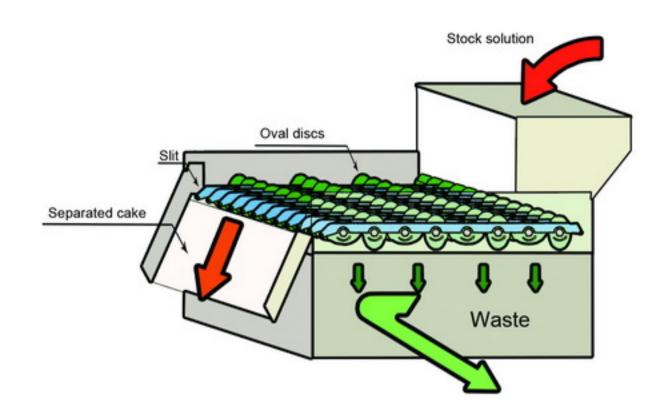
Play a vital role in various solid-liquid separation projects.

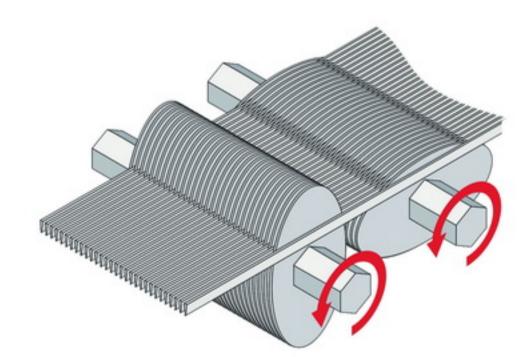
Slit width can be adjusted to maximize its role according to different treatment targets and treatment purposes.

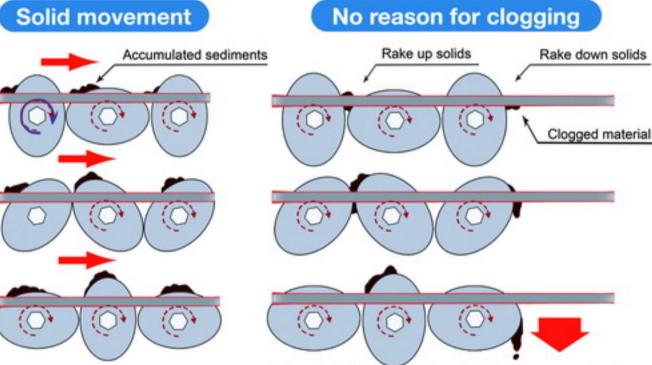
Cutting-edge Technology!!

■ Structure









■ Demonstration



Suspended solids and liquid wastes are mixed

Solidified matters

Supernatant and precipitated sludge

 Minimum opening slit produced is 0.5 mm. Non-standard specifications also available. As a solid-liquid separator "KDS dewatering press" designer and producer before and after tools also available, please feel free to contact us. Note1: wastes used in this experiment were; (vegetables, fish and meat, crushing was done by food processor) 600 Kg and 400 L water were used.

Note2: Maximum slit opening was used 1.0 mm, crushed parts were collected.









Removed Solid Wastes

Separated |

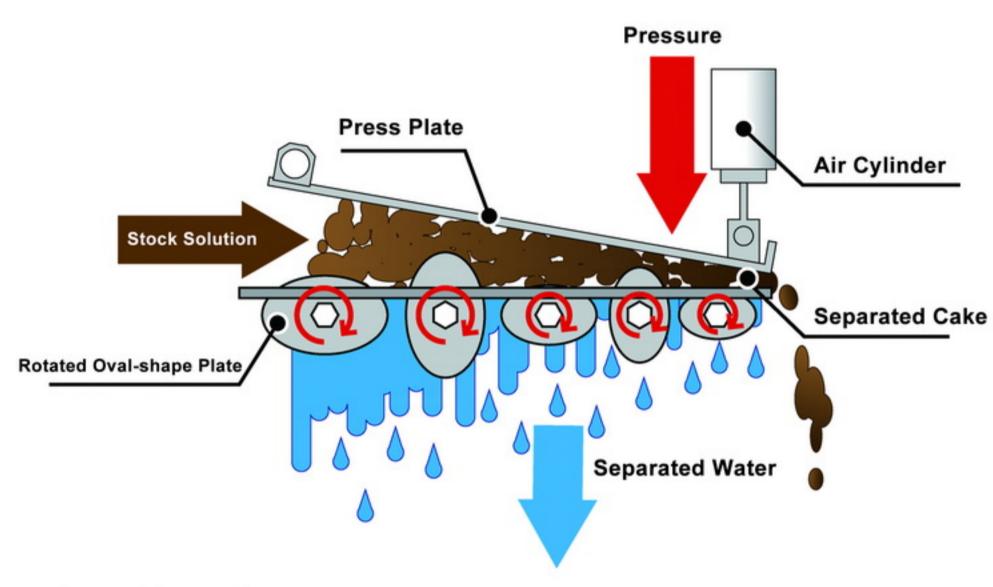
Water

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Principle & Applications

■ Working Principle

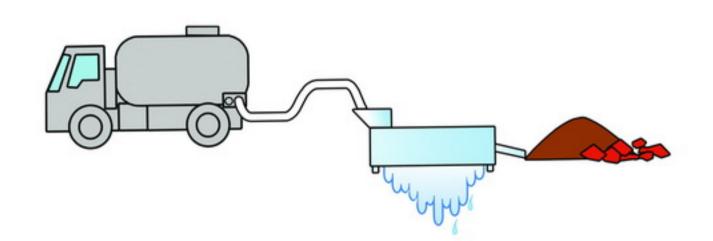


Applications

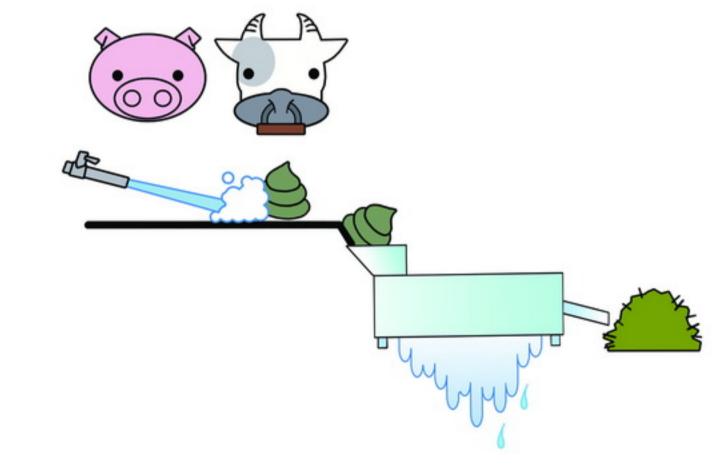
Food wastes treatment in school feeding center for scraps of food processing

- Fishery wastes treatment
- Crusher drainage waste disposer
- Process before treatment wastewater
- Drain water off devise from food etc.
- Primary filtration for wastes coming from grease traps
- Enrichment screen before dehydration
- Dehydrator

Solid-liquid separation for oil waste etc.



 Primary treatment for wastes produced from livestock etc.



Crushed wastes collection such as plastic etc.





Sewage sludge treatment SS-412



Treatment of wastes from school meal center SS-310



Fishery wastes treatment purification equipment SS-510



Purification dehydration facilities for dairy products wastes (clean saver) plant including SS-48

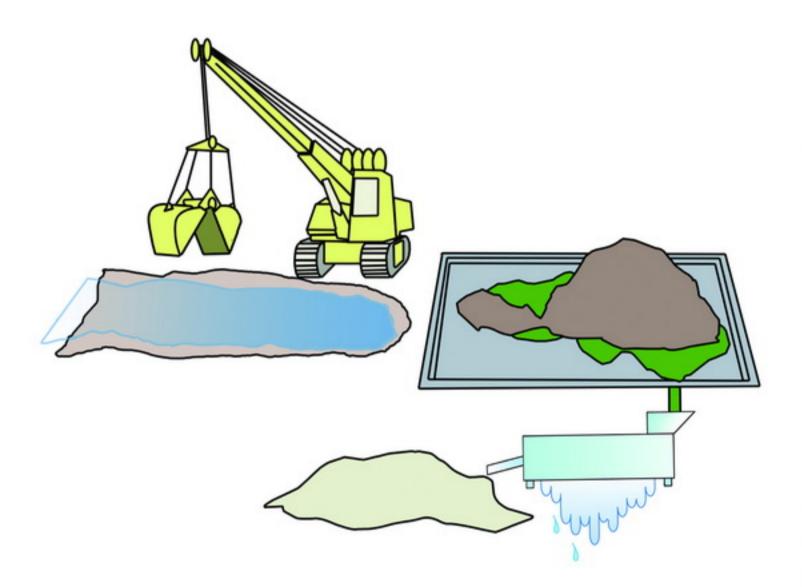


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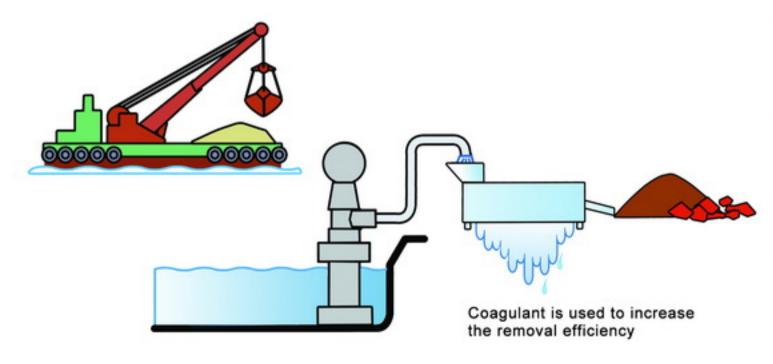
ZAC de l'aubinière

Sludge Dewatering Technology Expert

 Construction sites where sludge is treated by dewatering equipment screw press sludge image is before and after treatment



- Purification of lakes and rivers
 - . Primary treatment
 - . Sediment and sludge treatment





Crushed garbage treatment; dehydration technique SS-711D/2sets



Treatment of wastes from Konnyaku potato washing



Small-scale demonstration plant for treatment dredged sediments SS-511D



Concentrated sludge treatment SS-516

■ Case Study for Livestock Wastes





Dehydration rate for reference				
Sludge cake	Moisture content			
Cow dung	70~75%			
Pig excrement	75~80%			

Application Fields



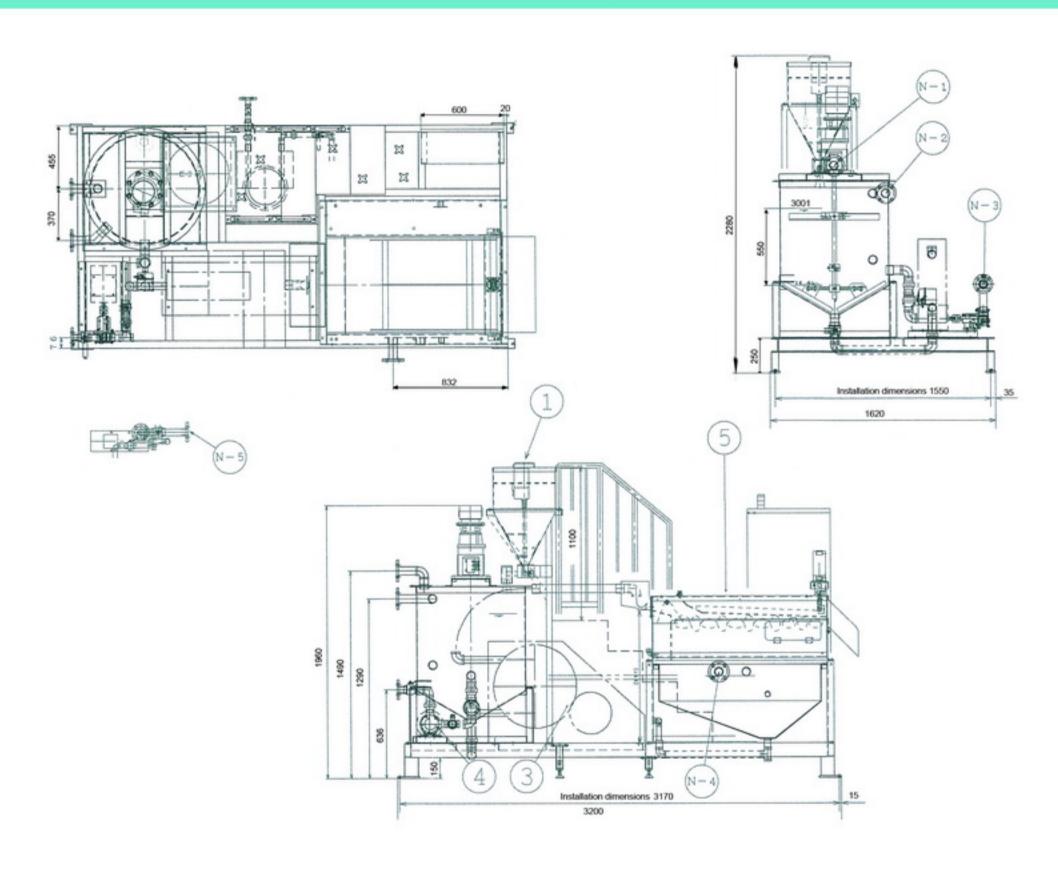


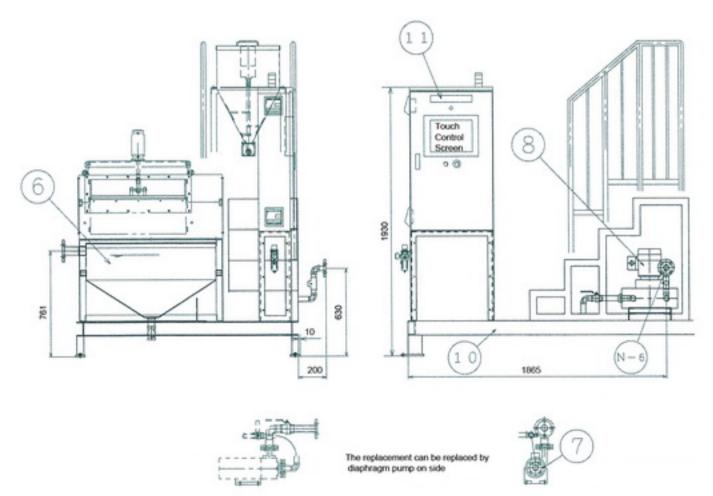


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Layout of KDS Dewatering Press





Model Reference

■ Thickener Model

Model	DN	Oval discs column numbers	Capacity m³/h	Sludge (reference) kg-DS/h	Power	Weight
			1.0mm	1.0mm	3.8Ф380V	
SS-312	300mm	12	23	49	0.2kw 1/160	110kg
SS-412	400mm	12	30	67	0.2kw 1/160	200kg
SS-512	500mm	12	38	83	0.2kw 1/160	210kg
SS-612	600mm	12	45	100	0.4kw 1/160	230kg
SS-712	700mm	12	74	160	0.4kw 1/160	380kg
SS-812	800mm	12	86	185	0.75kw 1/160	410kg
SS-912	900mm	12	98	210	0.75kw 1/160	440kg
SS-1012	1000mm	12	107	230	0.75kw 1/160	470kg
SS-1212	1200mm	12	130	280	1.5kw 1/160	600kg

■ Dewatering Models

	Oval discs	Capacity m³/h		Sludge			
Model	del DN	column numbers	10000mg/L	20000mg/L	(reference) kg-DS/h	Power	Weight
SS-311D	300mm	11	~4	~2	25~40	0.4kw 1/240	120kg
SS-411D	400mm	11	~6	~3	40~60	0.4kw 1/240	200kg
SS-611D	600mm	11	~8	~4	50~80	0.4kw 1/240	230kg
SS-811D	800mm	11	~12	~6	80~120	0.75kw 1/240	410kg
SS-1011D	1000mm	11	~14	~7	100~140	1.5kw 1/240	570kg
SS-1211D	1200mm	11	~16	~8	120~160	1.5kw 1/240	750kg