



SLUDGE DEWATERING TECHNOLOGY

Suitable For Every Municipal And Industry Field



EKOSEP Environment Protection Equipment Co., Ltd.



ABOUT US

Nantong EKOSEP Environment Protection Equipment Co., Ltd., the joint-stock company was founded by Oy Ekotuotanto AB, Finland and Shanghai Eminent Environment Protection Technology Co., Ltd. in 2006. EKOSEP's main products are belt filter press, belt thickener, automatic polymer make-up unit, screw conveyor, belt conveyor and non-metallic chain scraper system etc.

Our faith is to keep improving our craft skill and take advantage of our strong part to give you the best products of sludge treatment in the basis of combining advanced technology and management experience.

Our products, completely covered belt filter press, drum thickener, non-metallic chain scraper system etc. we are approved not only by civil customers and at the meantime our products were transported abroad to sell.

We have a technology innovated team of ten years' experience. We could provide the best solutions to you from transportation, pretreatment, dewatering to post treatment.

No matter what you need, the whole sludge treatment system or individual facilities, we are willing to try our best to give you the best service.

Let's contribute to the environmental protection in the world!



**SPECIALITY &
PROFESSIONAL
MAKE US MORE
TRUSTWORTHILY !**



We focus on technology innovation and people oriented. Our products are made of corrosion resistant stainless steel and in the process of technology innovation, we choose plenty of new material that has exceptional characters. This makes our products more corrosion resistant and wearing resistant, at the meanwhile there is an increase of our products' service life and a decrease of maintenance's workload.

Because of the difference of untreated sludge's nature, EKOSEP sludge dewatering equipment series can do some adjustment to filtration fabric model and roll shift arrangement on the basis of 24 kind regular products.

All the time, EKOSEP focuses on how to improve technical skills and reduce production cost. We are trying to develop a series of products that have high performance and low operation cost. We are willing to give you the customized and high quality products.



EKOSEP Product Line

Sludge dewatering equipment

Belt Thickener
Drum Thickener
Belt Filter Press
Belt Thickener +Belt Filter Press
Drum Thickener + Belt Filter Press
Heavy and Covered Belt Thickener and Belt Filter Press

Associated Equipment

Automatic Polymer Make-up Unit
Reactor with Agitator
Pipeline Mixer
Shaftless Screw Conveyor
Field Control Cabinet/Box

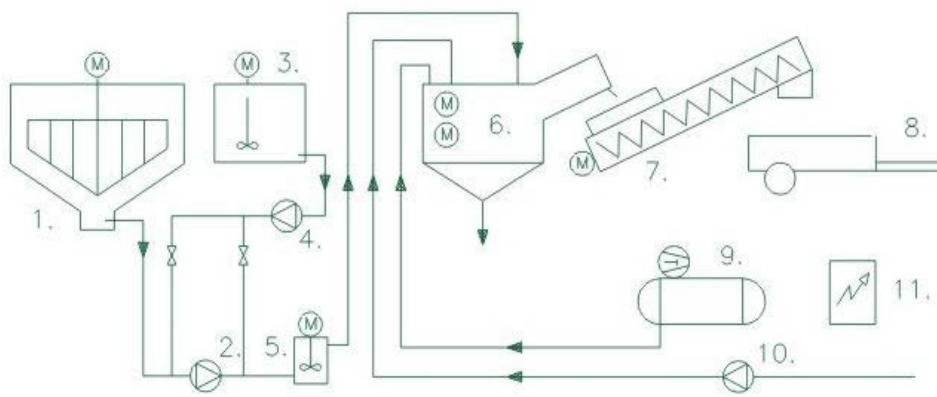
Non-metallic Chain Scraper

Non-metallic Board Scraper system

Advanced Technology of Sludge Dewatering!

Because of the difference of untreated sludge's nature, **EKOSEP** spin-drier series can do some adjustment to filtration fabric model and roll shaft arrangement on the basis of 24 kind regular products.

Flow Chart of Sludge Dewatering



- | | | | |
|--------------------------|----------------------|-------------------------------|----------------------|
| 1. Concentrated Tank | 2. Sludge Feed Pump | 3. Polymer Make-up Unit | 4. Polymer Feed Pump |
| 5. Reactor with Agitator | 6. Belt Filter Press | 7. Screw Convey or Carry Pump | 8. Transport Cart |
| 9. Air compressor | 10. Flush Water Pump | 11. PLC | |

Typical Applications

Municipal Wastewater Treatment

Water Works

Pulp and paper Industry

Mining and Metal Working Industry

Chemicals

Spinning, Printing and Dyeing Industry

Leather Industry

Food Industry

According to the different requirement, EKOSEP are willing to give you the best fit.

EKOSEP® LS10B Series Sludge Belt Filter Press

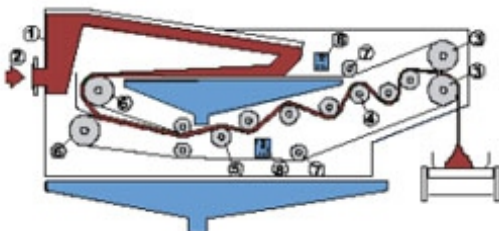
EKOSEP®LS10B was designed for dewatering sludge of 2-6% DS. To undigested municipal biochemical sludge, which is after thickening with DS to 2%. The DS content can reach 20% after dewatered by LS10B, The digested municipal can be dewatered directly by LS10B.



TECHNICAL DATA

Type	LS10B06	LS10B12	LS10B18	LS10B24	LS10B30	LS10B36
Belt Width (mm)	700	1000	1600	2100	2600	3100
Valid Filter Area(m2)	5.6	8.8	12.8	16.1	21.2	25.2
Sludge Volume Load (m3/h)	4 - 8	6 - 13	9 - 19	12 - 25	15 - 31	15 -38
DS Load (kgDS/h)	250	400	600	750	950	1100
Flush Water Consumption(m3/h)	4	6	8	10	12	14
Length (mm)	3200	3200	3200	3200	3200	3200
Width (mm)	1100	1500	2000	2500	3000	3500
Height (mm)	1500	1500	1500	1500	1500	1500
Power (kw)	0.37	0.37	1.1	1.1	1.5	1.5
Weight (Kg)	1000	1300	1700	2000	2800	3500

(DS load is variatal in different fields)

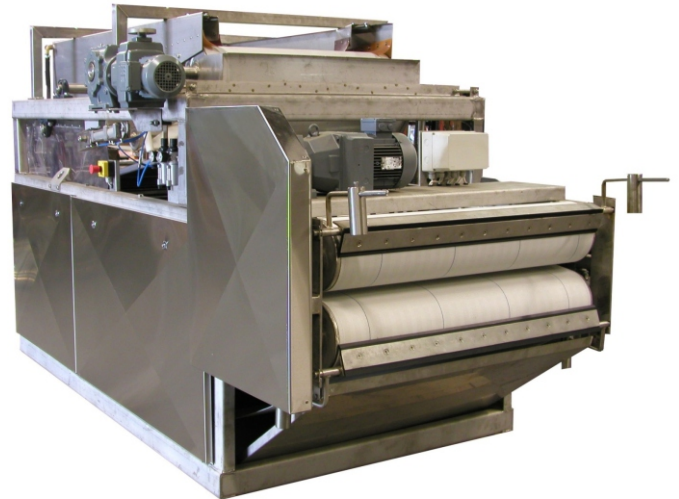


1. Sludge feeding tank
2. Sludge feed
3. Drive roller
4. High pressure rollers
5. Low pressure rollers
6. Tensioning rollers
7. Tracking roller
8. Flushingsystem
9. Filtrate discharge

EKOSEP® LS10B-T Series Belt Thickener + Belt Filter Press

EKOSEP® LS10B -T has independent belt thickener which makes the machine can handle very low DS sludge. It's suitable for sludge DS 8%, and the outlet DS can reach 20%. Thickening phrase and press phrase have independent drive units and the model of their belts are different. The frame material of LS10B-T is stainless steel and the bearing is made of macromolecule wearing resistant material. This makes LS10B-T more durable and less of maintenance.

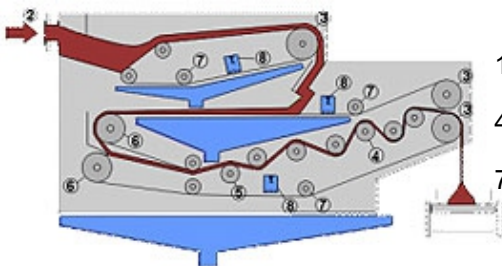
The series LS10B-T have 6 kinds of belt width, 2 kinds of roller arrangement. Hence, we have 12 kinds of choices.



TECHNICAL DATA

Type	LS10B06T	LS10B12T	LS10B18T	LS10B24T	LS10B30T	LS10B36T
Belt Width (mm)	700	1100	1600	2100	2600	3100
Valid Filter Area(m ²)	5.0	7.8	11.5	15.3	19.1	23.5
Sludge Volume LOad(m ³ /h)	3-8	5-12	8-20	15-35	20-50	30 -70
DS Load (kgDS/h)	150-250	150-400	250-600	400-1000	700-1500	900-2000
Flush Water Consumption(m ³ /h)	4.6	8.9	13	17	21	25
Length (mm)	3200	3200	3200	3200	3200	3200
Width (mm)	1100	1500	2000	2500	3000	3500
Height (mm)	1800	1800	1800	1800	1800	1800
Power (kw)	0.37	0.55	1.1	1.5	2.2	2.57
Weight (kg)	1100	1300	1600	1900	2500	3100

(DS load is variatal in different fields)



- 1.sludge feeding tank 2.Sludge feeding 3.Drive roller
- 4.High pressure roller 5.Low pressure roller 6.tensioning roller
- 7.tracking roller 8.flushing system 9.filtrate discharge

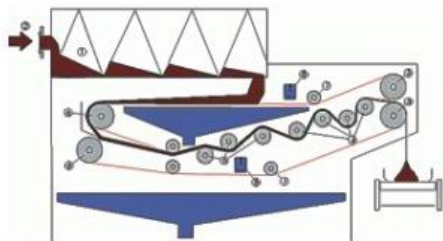
EKOSEP® LS10B-D Series Sludge Drum Thickener + Belt Filter Press

EKOSEP® LS10B –D is the combination of D-T thickener and LS10B belt filter press. It was designed to treat the sludge of 0.5-2% DS content. After drum thickener, sludge volume could decrease by 10-30%, that can improve efficiency of press. The device is totally covered and the material is stainless steel. The capability of treatment is bigger when choose double drum thickener.



Type	LS10B06D	LS10B12D	LS10B18D	LS10B24D	LS10B30D
Belt Width (mm)	700	1100	1600	2100	2600
Valid Filter Area(m2)	5.0	7.8	11.5	15.3	19.1
Sludge Volume Load (m3/h)	3 - 8	5 – 12	8 – 20	15 – 35	20 – 50
DS Load (kgDS/h)	150-250	150-400	250-600	400-1000	700-1500
Flush Water Consumption(m3/h)	4.6	8.9	13	17	21
Length (mm)	3650	3650	3650	3650	3650
Width (mm)	1100	1550	2050	2550	3050
Height (mm)	2200	2200	2200	2200	2200
Power (kw)	1.47	1.47	2.2	3.3	3.7
Weight (Kg)	1300	1600	2200	2600	3200

(DS load is variatal in different fields)



- 1.Pre-dewatering Drum
- 2.Sludge feeding
- 3.Drive rollers
- 4.High pressing rollers
- 5.Low pressing rollers
- 6.Belt tensioning rollers
- 7.tracking rollers
- 8.Belt washing system
- 9.Filtrate discharge

EKOSEP® LS10B-TM Series Heavy and Covered Sludge Belt Thickener + Belt Filter Press

EKOSEP® LS10B –TM is used to treat the sludge from secondary sedimentation tank or aeration tank directly. It is the combination of G-T thickener and LS10B belt filter press. This series could treat sludge of lower DS content (e.g. 0.3% biochemical sludge), and at the meantime, the treatment capability is bigger.

CHARACTORS:

The material of all frames, covers ,trays and rollers are stainless steel

Compact construction, need less space

Double Perforated rollers increase the ability by 15%

Big diameter rollers can bear high pressure

Thickener and belt filter press have different drive systems

Four different kinds of belt arrangement

Pneumatic steering and tensioning

Limited switch to protect the belts

Continuous belt flushing system



Advantages:

Big capacity

Compact construction ,Totally covered, no water and sludge leak

High quality material

Low purchasing and running cost

Automatically operation

INNOVATION

In order to satisfied higher and higher requirement, we developed this kind of totally covered thickening and dewatering machine. It has no leak of sludge, wastewater and odors. This makes operational environment better as well as lower purchasing and operation costs than centrifugal drier.

TECHNICAL DATA

Type	LS10B06T M	LS10B12T M	LS10B18T M	LS10B24T M	LS10B30T M	LS10B36T M
Belt Width(mm)	700	1100	1600	2100	2600	3100
Valid Filter Area (m ²)	8.0	11.25	16.4	21.5	26.7	31.9
Sludge Volume Load (m ³ /h)	15	30	20-60	40-80	50-100	80-150
DS Load (kgDS/h)	150-250	150-500	250-700	400-1000	700-1500	900-2000
Flush water Consumption (m ³ /h)	4.6	8.9	13	17	21	25

(DS load is variatal in different fields)