

**WE SUPPLY YOU THE PROFESSIONAL WATER-TREATMENT TOTAL SOLUTION**



### Product Introduction:

CHEMNIUM belt filter Press, which is a latest advanced sludge dewatering technique. It's characterized by small footprint and wide applications. It can be used for different sludge in varieties of industries including petrochemical processing, light industry, electroplating, printing & dyeing, food & beverage, chemical fiber, paper-making, proteins, livestock, pharmacy and leather etc.

The concentration belt sludge filter Press is slightly influenced by the load fluctuation of sludge and the water content's rate of sludge cakes is low. The machine is easy for worker's operation and management.

We have two types of belt filter press:

1. Rotary Drum Thickening/ Dehydrating Belt Filter Press
2. Gravity Belt Thickening/ Dehydrating Belt Filter Press



### Features of Belt Filter Press:

- (1) Belt position correcting system: automatic continuous detection, extend belt's life.
- (2) Press roller: SUS304, reinforced welding, machined by fine processing, enough strength.
- (3) Air pressure control device: the filter cloth tensioned by cylinder runs in its scope stably without leakage, high security.
- (4) Belt cloth: imported from Sweden or, good durability and excellent corrosion resistance.
- (5) Control Panel Cabinet: Omron or Schneider. PLC adopts Siemens, easy operation and maintenance.
- (6) Sludge distributor: The thickened sludge shall be distributed evenly on the upper belt to ensure the equal squeezing pressure, improve dewatering efficiency & extend the life of belt cloth.
- (7) Semi-centrifugal rotary drum thickening unit: By action of positive rotation screen, massive supernatant free water can be removed.
- (8) Flocculator tank: Adopts different layout with different sludge inlet concentration, to mix the polymer and sludge thoroughly.

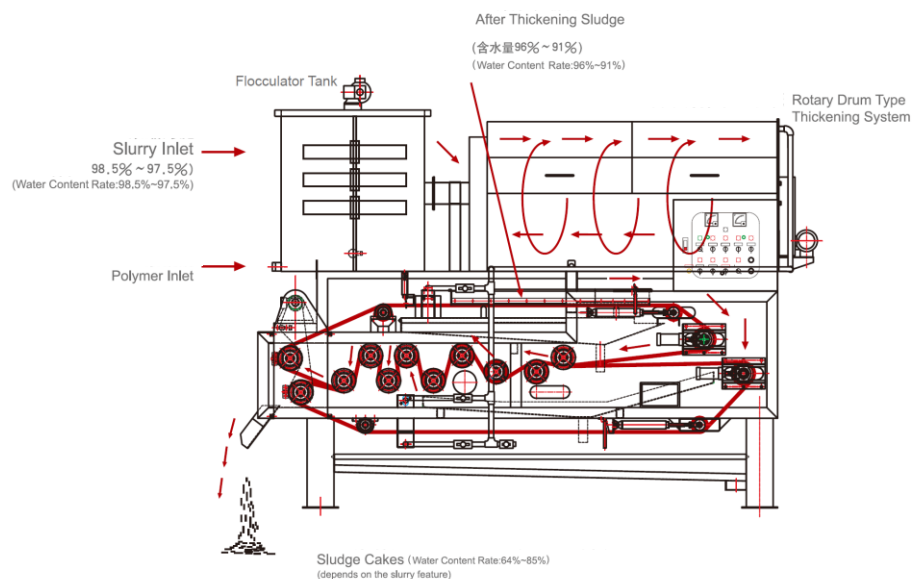
## Application:

1. The sludge dewatering for various industrial wastewater.
2. The sludge dewatering of slaughter house, livestock..etc.
3. The sludge dewatering of the city sewer, excretion, water.
4. Purifying...etc. Sludge treatment plants.
5. The treatment/dewatering of many kinds of algae wastewater.
6. Solid-liquid separation under processing of Food & Beverage.
7. Chemical industry, Mining industry, Polishing line effluent...etc.
8. Palm Oil Mill Effluent Treatment.

## Process Flow:

DNY. Gravity Belt Thickening/Dehydrating Belt Filter Press.

Rotary Drum Thickening/Dehydrating Belt Filter Press

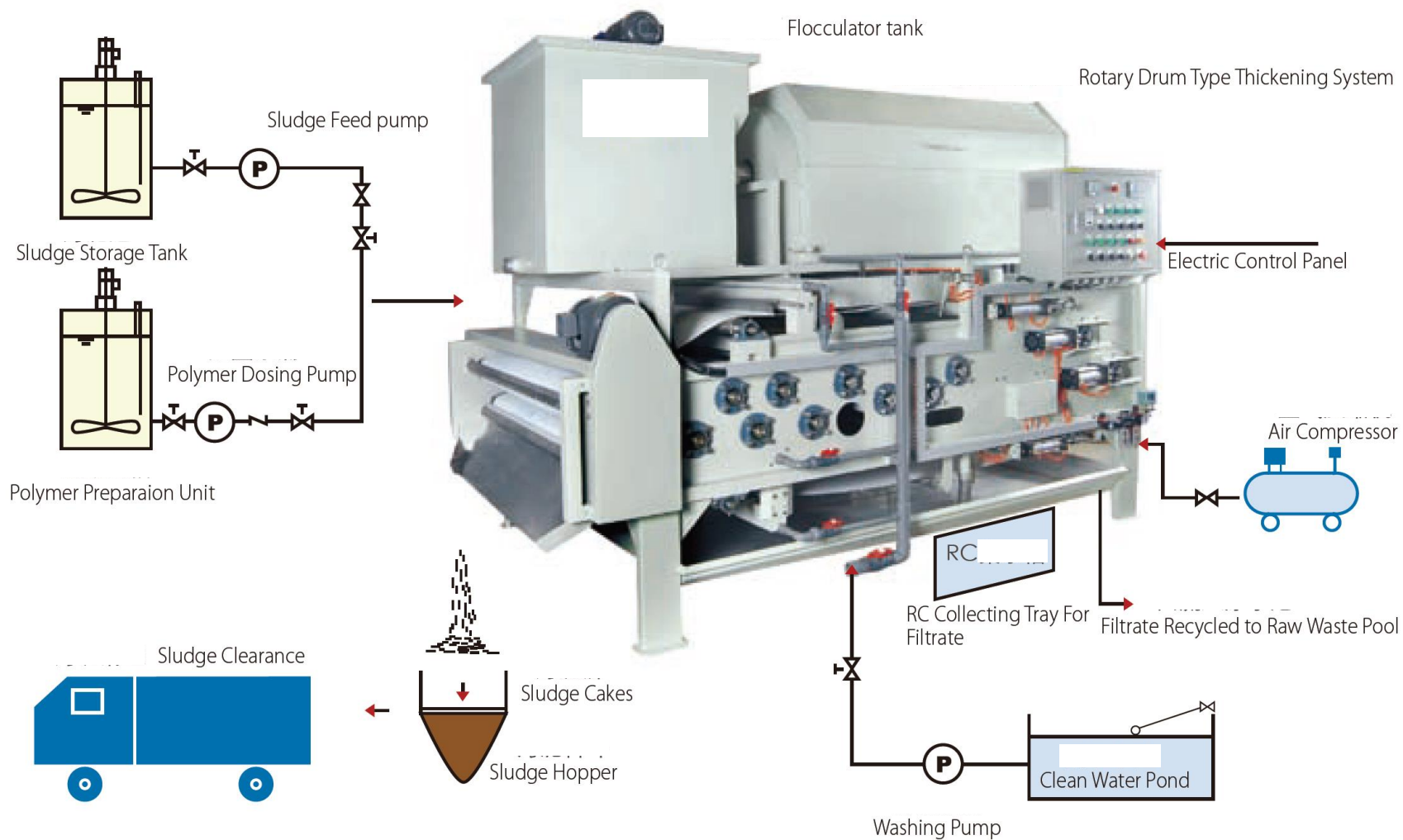


## The Reference Treating Data Sheet of the Major Waste Slurry:

Sort of Sewage	Type of Slurry	Slurry Inlet Consistency	Polymer Powder Consumption (kg/Ton D.S)	Water Content Rate of Sludge Cake (%)
Parper & Pulp Sewage	Chemical Slurry	2.0-5.0	2.0-4.0	64-78
	Activate Slurry	1.5-3.0	3.0-5.0	75-84
Printing & Dyeing Sewage	Chemical Slurry	1.5-2.5	3.0-5.0	76-84
	Activate Slurry	1.0-2.0	4.0-6.0	80-85
Leather & Tannery Sewage	Chemical Slurry	2.5-4.0	3.0-5.0	74-83
	Activate Slurry	1.5-2.5	4.0-6.0	78-85
Electronic-Plating Sewage	Chemical Slurry	1.5-2.5	3.0-5.0	72-84
Metal-Processing Sewage	Chemical Slurry	2.0-4.0	3.0-5.0	66-84
Stone & Mining Sewage	Chemical Slurry	5.0-10	3.0-5.0	45-75
Food & Beverage Sewage	Activate Slurry	0.8-1.5	4.0-6.0	78-85
Livestock Sewage	Anaerobic Fermentation	3.0-6.0	5.0-8.0	75-83
Slaughter House Sewage	Admixture, Surplus Slurry	1.0-3.0	4.0-6.0	75-85
	Surplus Slurry	0.8-1.5	4.0-6.0	78-85
Municipal Sewage	Admixture Slurry	1.5-3.0	4.0-6.0	74-85
	Digestion, Surplus Slurry	1.0-3.0	4.0-6.0	74-85
Excretion Sewage	Digestion, Surplus Slurry	1.0-3.0	4.0-6.0	74-85
Water Purifying Sewage	Chemical Slurry	1.5-4.5	3.0-5.0	64-82

Model		DNY1.0	DNY1.5	DNY2.0	REMARK
Belt Width (MM)		1000	1500	2000	
Low concentration & Middle concentration Treating Capacity (m <sup>3</sup> /hr) Inlet Consistency (s.s1-5%)		15-20 12.5-15	25-33 20-25	35-45 30-35	Based on the kinds of sludge
Dned Sludge (kg/hr)		60-120 100-188	100-198 160-1200	140-270 240-450	Based on the kinds of sludge
Mud Cake Water Contents Rate (%)		75-85	75-85	75-85	Based on the kinds of sludge
Power Consumption (HP)	Driving Motor (frequency control)	0.37	0.75	0.75	
	Disposal Agitator Motor	0.37	0.55	0.75	
	Drum Thickener	0.37	0.55	0.55	

## Allocation Schema For Peripheral Equipment



## Dimension :

