

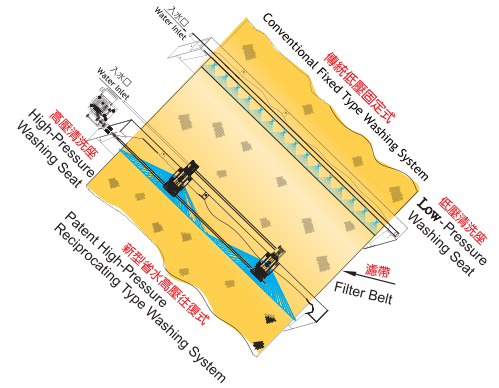
污泥脱水機 Belt Press

專利 Patents

最新型超省水高壓往復式清洗系統裝置 (選配備)

The newest super water saving, high-pressure reciprocating type washing system. (optional accessory)

專利證號 Patent Certificates :
台灣 Taiwan Patent No. M276045
中國 China Patent No. ZL95215797.7
德國 Germany Patent Nr. 202005006697.4



▲運用高壓噴射水柱，對濾帶來回往復噴洗動作，以確保維持濾帶透水功能及其壽命，並降低泥餅含水率及增加處理功效。

▲徹底解決過去傳統低壓式固定高清洗水量詬病，並可節省相當龐大的後序迴流處理增加費用。(請參考下列比較表)

▲在往復式系統結構上，裝置注油潤滑器，以確保系統使用壽命。

▲Making use of our patent high-pressure reciprocating type washing system to wash the filter-belt completely will maintain the permeability of the filter-belt, lengthen its life span and reduce the water content's rate of the sludge cake, add the treating effectiveness of the belt press.

▲Using the conventional type washing system will consume a lot of washing water, but our patent high-pressure reciprocating type washing system may substitute and solve the shortcomings of using the conventional type, meanwhile, save the huge cost of the treating recycling filtrate of post-process. (Please refer to the following comparison sheet)

▲Lubricating oil filler: can maintain the high-pressure reciprocating type washing system to run normally and increase its life span.



濾帶清洗水量比較表 The filter-belt washing water consumption comparison sheet

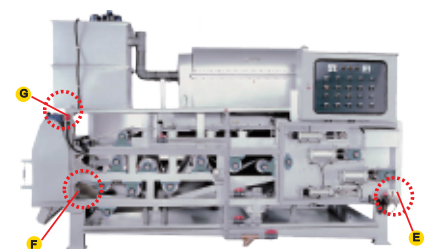
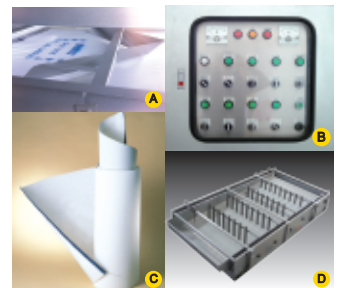
傳統低壓固定式 (不含轉鼓濃縮或重力濃縮水量) Conventional fixed type washing system (not including thickening system)					新型高壓往復式 (不含轉鼓濃縮或重力濃縮水量) Patent high-pressure reciprocating type washing system (not including thickening system)				
濾帶寬度 (mm) Belt width	噴嘴型式 Nozzle type	清洗水壓 (kg/cm ²) Washing pressure	噴嘴總量 (pcs) Numbers of nozzles	總水量(M ³ /hr) Total water consumption	噴嘴型式 Nozzle type	清洗水壓 (kg/cm ²) Washing pressure	噴嘴總量 (pcs) Numbers of nozzles	總水量(M ³ /hr) Total water consumption	節省效率 (%) Water saving percentage
500	扇型 Sector 65°-30B	5	12	1.86	針型 Needle 0°-43#	20	4	0.85	55
750	扇型 Sector 65°-30B	5	18	2.79	針型 Needle 0°-43#	20	4	0.85	70
1000	扇型 Sector 65°-30B	5	25	3.87	針型 Needle 0°-43#	20	8	1.70	57
1250	扇型 Sector 65°-30B	5	31	4.80	針型 Needle 0°-43#	20	8	1.70	65
1500	扇型 Sector 65°-30B	5	38	5.88	針型 Needle 0°-43#	20	8	1.70	72
2000	扇型 Sector 65°-30B	5	51	7.89	針型 Needle 0°-43#	20	12	2.55	68
2500	扇型 Sector 65°-30B	5	64	9.91	針型 Needle 0°-43#	20	16	3.40	66
3000	扇型 Sector 65°-30B	5	77	11.92	針型 Needle 0°-43#	20	16	3.40	72

◎ 噴嘴耗水量可依處理不同種類之污泥加以調整改變。 ◎ The water consumption of the above nozzles may be adjusted by the different slurry.
◎ 以上規格本公司保留設計變更之權利。 ◎ The company reserves the right of the above design modification.

特點 Features

- Ⓐ 污泥均配器：可將濾帶上之污泥層，披散成均一厚度，確保污泥壓榨受力均勻，提升濾帶使用壽命。(限有轉鼓濃縮系列)
- Ⓑ 電控箱：漏電斷路器裝置，可自動切斷電源，確保操作上的安全。(限TB/TBH/TB3/TE/TE3系列)
- Ⓒ 濾帶：材質為polyester (P.E.S 聚酯纖維)，濾水及耐化學性佳，使用壽命長。
- Ⓓ 梳泥器：強迫分割濾帶上均佈之污泥層，可增加濾帶之有效過濾面積，提升濃縮效率。(限有濾帶濃縮系列)
- Ⓔ 空壓不足安全裝置。(限有糾偏系統用)
- Ⓕ 濾帶異常偏離停止警報裝置。
- Ⓖ 緊急停止安全開關裝置。(限TB/TBH/TB3/TE/TE3系列)

- Ⓐ Slurry spread guiding & arraying device: Slurry flocks are arrayed evenly on the central area of the filter-belt by this device, meanwhile, confirm the sludge squeezed evenly on the filter-belt with rollers and increase the life span of the filter-belt. (For drum thickening device series only)
- Ⓑ Electric control panel: Our circuit breaker will cut off power supply automatically for protecting the safety of the operators if electric leakage occurred. (For TB / TBH / TB3 / TE / TE3 Series only)
- Ⓒ Filter belt: Polyester-Material, with good permeability and resistance to chemicals, with long life span when used normally.
- Ⓓ Plows: Force and turn the slurry over for assisting create a drainage path for the water phase, add the effective filter area of the filter-belt and increase the thickening effectiveness. (only used for belt thickening systems).
- Ⓔ Air pressure shortage safety device. (only used for tracking systems)
- Ⓕ Stop & alarm device when abnormal deflection on filter-belt.
- Ⓖ Emergency stop & safety device. (For TB / TBH / TB3 / TE / TE3 Series only)



註：E、F、G 項需視機型而定裝配
The assembly of item No.: E、F、G depends on the machine models.

轉鼓篩網濃縮系統

Rotary drum type thickening system

專利證號 Patent Certificates :
台灣 Taiwan Patent No. 119141 ; M348113
中國 China Patent No. ZL96249032.6

- ▲ 污泥調理膠羽後，大量的表面自由水，經篩除分離後，S.S 濃度可提高至 4~9%(例圖)，達到濃縮及減量功能。
- ▲ 經轉鼓篩除後的泥糰結構穩定，無漫流側溢情形，可確實降低濾帶透水負荷，並提高處理量及降低泥餅含水率。
- ▲ The free water separated from the sludge(which mixed and flocced with polymer solution), suspended solid consistency will be adjusted up to 4~9%(example photo as above) and reach the function of sludge thickening and reduction
- ▲ The sludge structure is stable after rotary drum thickening and will be no side-leakage, increase the permeability of filter-belt and treating quantity, decrease the water content's rate of sludge cake.



濃縮後實例照片
Example photo (sludge after thickening)

立毛纖維植毛濾帶(選購配備)

Planting fiber filter belt with upright fiber (optional)

特點

- ▲ 粗網目基布之開孔率高，具有高透水特性。
- ▲ 立毛纖維之高摩擦力，可有效攔阻污泥及聚集污泥並防止側漏。
- ▲ 對於難處理之含油污泥、黏性污泥、活性污泥等脫水效果顯著。

運作說明

- Ⓐ 脫水前：濾帶尚未加壓時，立毛傾斜站立於基布；濾帶開孔率大，易於濾水及污泥聚集。
- Ⓑ 脫水時：加壓脫水時，立毛纖維呈現同方向倒下狀態，濾液大量藉由毛細現象排出，污泥則被阻隔集於高密度之濾毛上，不會有側溢及堵塞的問題。
- Ⓒ 脫水後：除壓後立毛纖維自動恢復彈性，泥餅會被彈起完全剝離，毛端上污泥殘留少，不易堵塞。

Features

- ▲ Percentage open area of the thick mesh kieb is high, has the high water percolation characteristic.
- ▲ Sets up the wool textile fiber the high friction force, but detains the sludge and the accumulation sludge effectively and prevents the side to leak.
- ▲ Oiliness of sludge regarding difficult processing, stickiness sludge, active sludge and so on the dehydrated effect is remarkable.

Application instructions

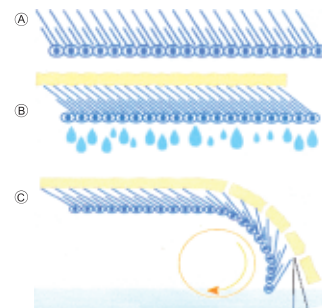
- Ⓐ Before dehydration : before pressurized filter belt, upright fiber tilt standing on base cloth; filter belt with large openings rate, easy to filter water and accumulate sludge.
- Ⓑ During dehydration : pressurized dehydration, upright fiber exhibits the same direction down state, and the filtrate were discharged a lot by capillary phenomenon, sludge were berried on high density filter fiber, there will be no side leakage and clogging problems.
- Ⓒ After dehydration : the upright fiber restores elasticity automatically after release pressure, sludge cake will be completely bounce stripped, less residue sludge and clogging.

各機型配備說明

The description of functions and accessories for all models

★ 註Remark : √ 有Yes × 無None ● 可選購Available ▲ 不可選購Unavailable

說明 Description	機型 Model	系列 Series				
		TD	TA	TB	TE	
標準配備 Standard accessories	主機本體不銹鋼 SUS304 材質製造 Main structure made of stainless steel SUS304	√	√	√	√	
	濾帶 (組裝機台上) Filter belt (installed on machine)	√	√	√	√	
	調理槽(含攪拌機) Conditioning or mixing tank (including agitator)	√	√	√	√	
	電控箱(材質: 碳鋼+二道樹脂防銹處理) (組裝於機台上) Control panel (Material: carbon steel + 2 layers of resin antirust painting) (installed on machine)	√	√	√	√	
	前段濃縮系統 Pre-thickening system	×	√	√	√	
	保養手冊/保固書 Operation & maintenance manual / product certificate	√	√	√	√	
	周邊附屬設備 Peripheral equipments	空氣壓縮機 Air compressor	▲	●	●	●
清洗泵浦 Washing pump		●	●	●	●	
污泥輸送泵浦 Slurry pump		●	●	●	●	
絮凝劑定量加藥泵浦 Polymer solution dosing pump		●	●	●	●	
絮凝劑溶解泡藥機(或攪拌機/儲存桶) Polymer solution automatic dispensing dissolvers (or agitator / storage tank)		●	●	●	●	
濾液迴流泵浦(視機台放置情形) Filtrate recycling pump (depend on the positioning condition of the machine)		●	●	●	●	
清洗水過濾回收再利用系統 Filtrate reusing system for filter-belt washing		▲	●	●	●	
泥餅螺旋輸送機 Screw conveyor for sludge cake		▲	●	●	●	
選購配備 Optional accessories		主體修改為不銹鋼 SUS316 / 316L 或碳鋼材質製造 Main structure made of stainless steel SUS316 / 316L or carbon steel	▲	●	●	●
		超省水高壓往復式清洗系統 Super water saving, high - pressure reciprocating type washing system	▲	●	●	●
	濾帶自動張緊系統 (三濾帶式濃縮段為固定方式) Filter belt auto-tensioning system (Triple-belt type - thickening section: fixed type)	▲	●	√	√	
	電器元件指定品牌 / PLC 程式控制 / 人機界面 Appointed brand electric parts / P.L.C. control / man-machine monitor touch interface	▲	●	●	●	
	噴嘴自清系統 Self-brushing system for nozzles	▲	●	●	●	
	中央集中式潤滑系統 Central oil-supply lubricating device	▲	●	●	●	
	安全防護網 Machine outside safekeeping net 緊急停止安全拉繩 Emergency stop pull-rope 集氣罩 Waste air collecting device	▲	●	●	●	
	濾帶變頻調速 Frequency converter adjusting device 濾帶斷裂偵測 Belt broken-down detective device 濾帶速度顯示 Monitor of belt driving speed	▲	●	●	●	



(含油污泥脫水實例)
(Example for oil-retaining sludge cake outlet)



清洗水過濾回收再利用系統
Filtrate reusing system for filter-belt washing

* 本公司保留設計變更之權利。 The company reserves the right of the above design modification.
* 若需求上列選購配備，請另洽詢。 If the above option accessories needed, please inquiry our company.