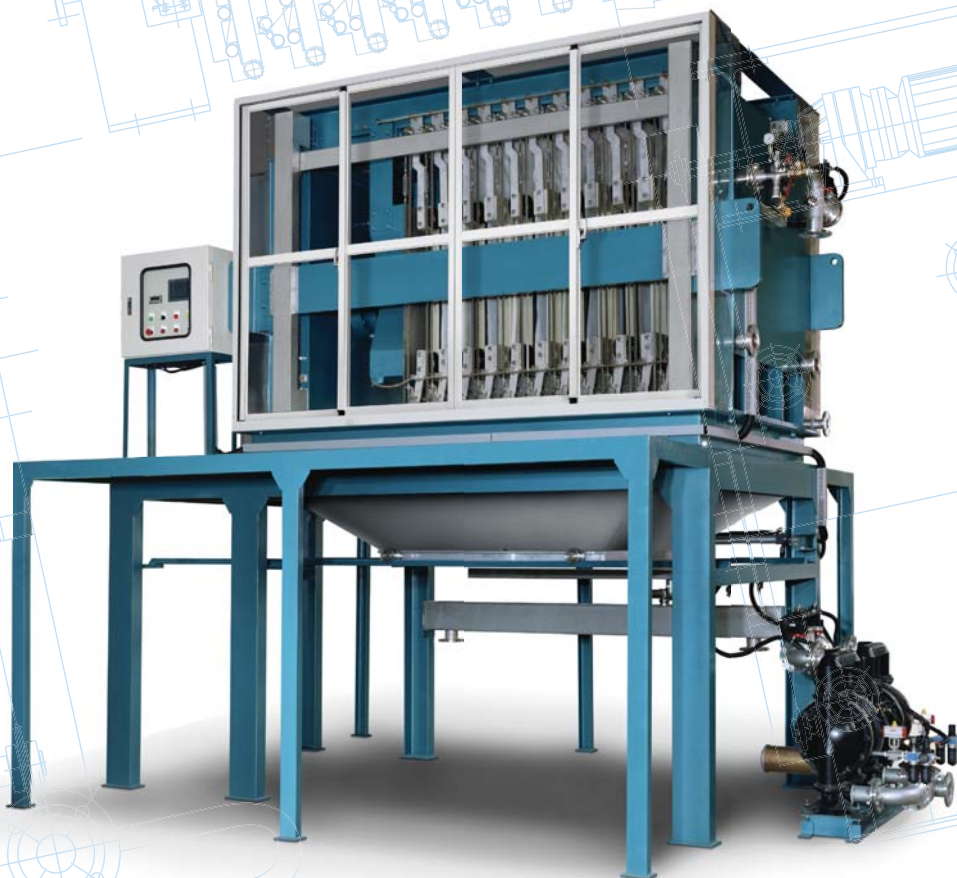


Moving Cloth Type Filter Press

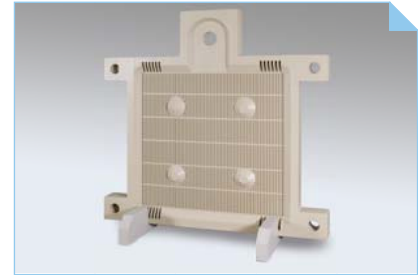
Feed → Cake Discharge → Cloth Washing = Only 40min/cycle



MOVING CLOTH TYPE FILTER PRESS

The moving cloth type filter press is an advanced filter press system. It is a highly efficient, compact dewatering device for solid-liquid separation. Its major components are a structured framework, filter chambers (formed by the recessed plate system or plate-and-frame system), and filter cloth.

Although filter press technology is simple in principle, it plays an essential role in many industrial processes. Filter presses are separation devices used for solid or liquid separation that work on feed pressure or squeeze pressure to reduce liquid content in process or waste slurries or to reduce solid content in a product.



Key Features of the Moving Cloth Filter Press

1. Complete automatic operation

From the initiation, dewatering, and cleaning filter cloth to the Cake Discharge, all the above operate automatically. Batch operation and operating schedules can be set daily. The entire process is fully automatic. The filter press is suitable for 24-hour continuous operation.



2. Efficient dewatering to high cake dryness

By feeding sludge at the top of the filter plates, a uniform distribution of incoming sludge can be achieved. Each filter plate is equipped with a high-tension membrane. By applying uniform squeezing of the membrane, the sludge cake will achieve high cake dryness at the shortest period of time.

3. Complete sludge cake discharge

Because of the filter-cloth moving design, even the sludge cake that is difficult to be released can be automatically removed during cloth movement.

4. Fast cleaning of filter cloth

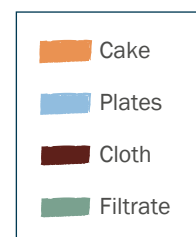
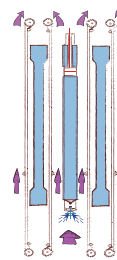
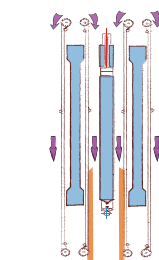
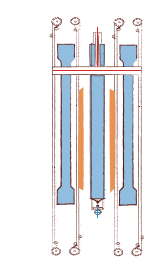
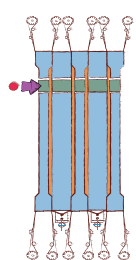
Automatic cloth washing completes within 1 minute.

5. High-Capacity Sludge Treatment

Since there is a drastic reduction of time needed for dewatering, sludge release and filter cloth cleaning, the capacity of the filter press increases greatly. In other words, by utilizing a smaller filter press, a targeted amount can be promptly treated. Therefore, it will save the factory space and the area for facilities.

Operation Process Flow

- 1 Filter plates close
Feed sludge
- 2 Cake dewatering
- 3 Filter plates open
Cake Discharge
- 4 Filter cloth cleaning



Operating Principle of the Moving Cloth Filter Press

1. Filter plates close

The filter press starts operation, and the hydraulic system then drives the hydraulic cylinders to close the filter plates. Airtight chambers are thus formed.

2. Feed sludge

Sludge is fed into the top of the chambers. The filtrate passes through the filter cloth, achieving effective sludge dewatering.

3. Cake dewatering

After the sludge is filtered, high-pressure water is used to expand the membrane for further squeezing the sludge cake. The moisture of the sludge cake will be lowered again.

4. Filter plates open

Following the return of the hydraulic cylinders, the filter plates are opened. Since the filter plates are connected by chains, all plates will be opened at the same time.

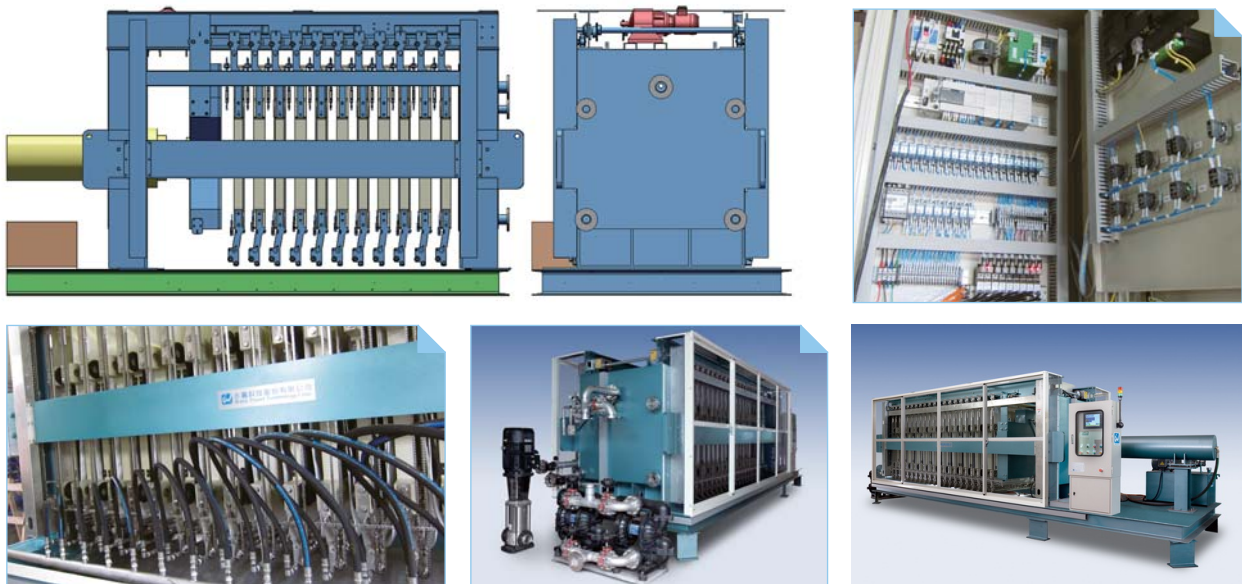
5. Cake discharge

Using the filter-cloth moving apparatus, all sludge cakes can be released at the same time and the process will be finished within one minute.

6. Filter cloth cleaning

Each filter cloth is equipped with a cleaning nozzle. The moving filter cloth design allows simultaneous cleaning.

Moving Cloth Type Filter Press Out view



Applicable applications

Food industry: Sugars, Beer, Flour, Soybean Sauce, Beverage, Grease, Saccharine, Artificial Flavors etc.

Chemical industry: Medicine, Fertilizer, Dye, Graphite.

Mining industry: Sand and stone pit, Marbles, Mount Morillonite, Bentonite, Calcium Carbonate, Amino Acid, Silica etc.

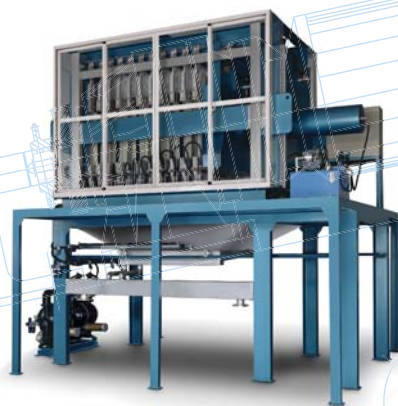
Others: Dyes, Resin, Metallurgic Industries, Non-ferrous Metal Industries etc.

Polluted sludge in the sewer, industrial polluted sludge, and polluted sludge in the tap water etc.

Moving Cloth Filter Press Specification table

Model	Filtrate area (m ²)	Plate thickness T (mm)	Quantity N	Capacity (Liter/cycle)	Capacity (mm)	Machine Size LxWxH (mm)	Hydraulic Pump (HP)
FA500	0.36x(N-1)	80	N	4.28x(N-1)	500x500	(Nx140+1635+N x85)x1180x1260	3
FA800	1.0x(N-1)	80	N	15x(N-1)	800x800	(Nx160+1896+N x110)x1760x2025	5
FA1000	1.56x(N-1)	90	N	25x(N-1)	1000x1000	(Nx180+2600+N x125)x2200x2464	7.5
FA1500	3.41x(N-1)	100	N	42.6x(N-1)	1500x1500	(NX190+3600+Nx135)x3300x3398	10

※ Other special specifications are available upon request.



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■ Agent