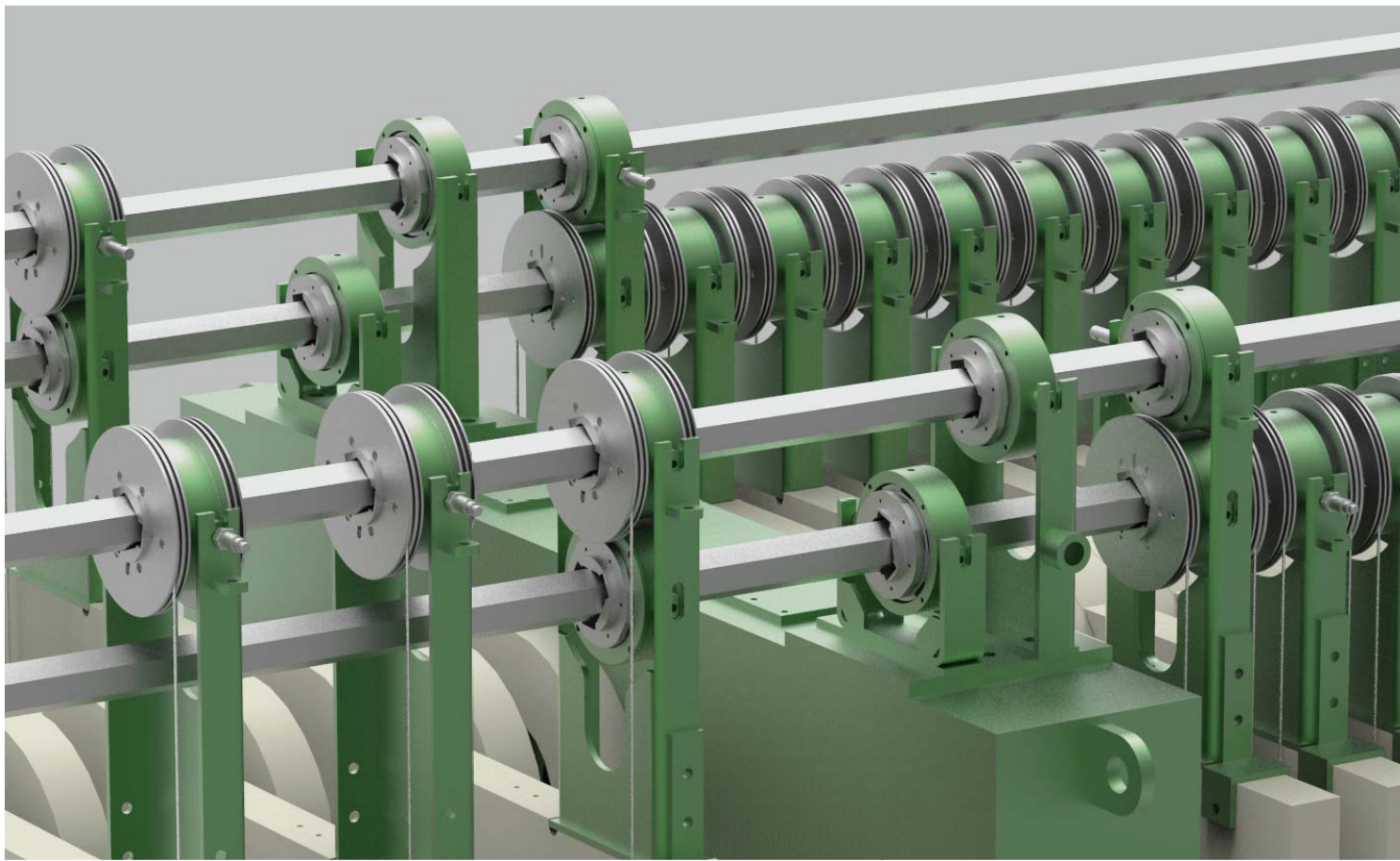


TF Type Fully Automatic Filter Press

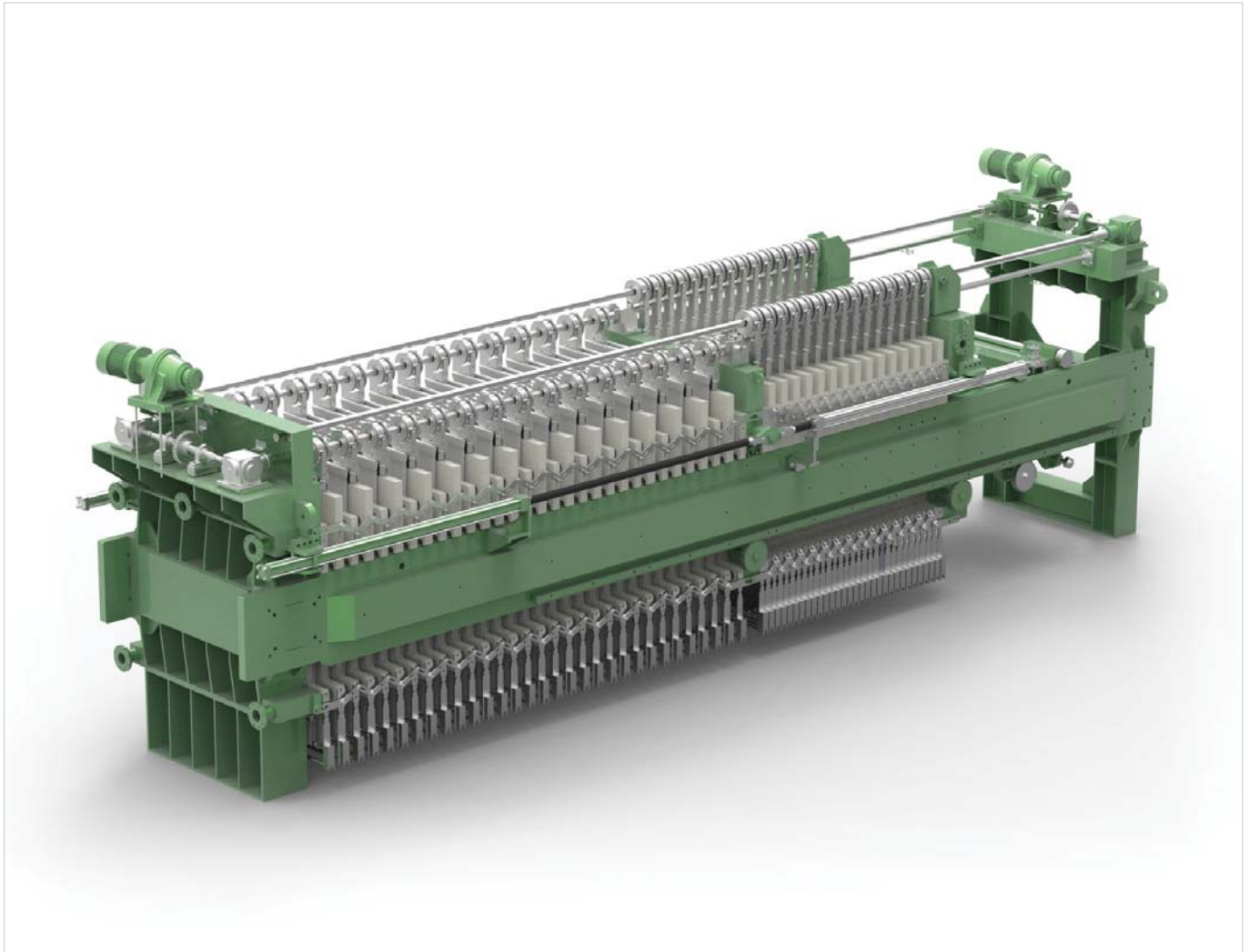
Travelling Filter Press



YUCHEON ENGINEERING Filter Press

Fully Automatic Filter Press

The Travelling Filter Press(Fully Automatic Filter Press : TF Type) of YUCHEON ENGINEERING is a fully automatic unmanned driving system. We could offer equipment optimized for your specific requirements according to your industry characteristics, individual specifications, usage, and etc. such as customized solutions for sludge treatment and sludge dehydration.

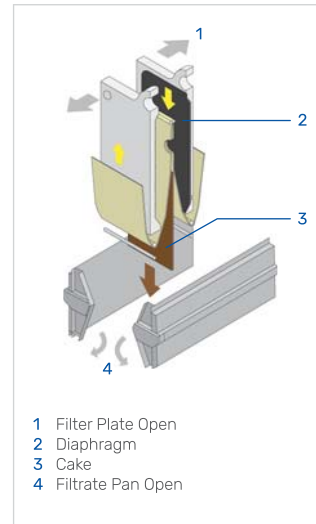
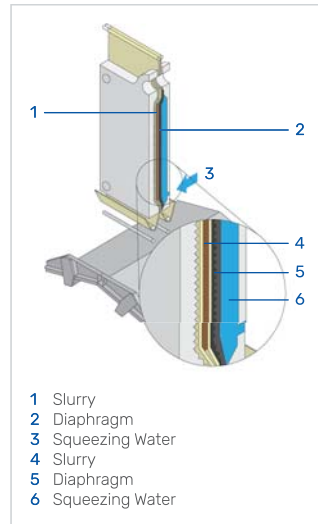
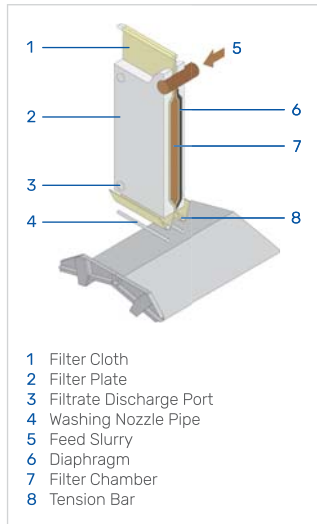


Features of TF Type - Travelling Filter Press

- Fully automatic unmanned driving system with operating hours of 24h/day.
- 1 Cycle Time : 50min to 60min
- Discharge cakes and clean filter cloths in a short time.
- Maintains distance between plates consistently and up-down cleaning system of filter cloth discharges all the cake at the same time.
- Open-structure enables simple and easy maintenance.
- Low level of water content(solidification) from high pressure (16kg/cm²).
- Faster discharging to cleaning phase than fixed type Filter press. (Number of washing and washing time requirements can be set flexibly depending on the pollution level of filter cloth.)
- Easy to exchange filter cloth and no need to adjust tension with stretched filter cloth.
- Relatively long-life cycle of diaphragm. Easy to exchange.
- The filter cloth under constant tension prevents wrinkles or creases.

How It Works

Mechanism



Filtering

With start switch activated, the hydraulic cylinder moves to the hydraulic pump. The hydraulic cylinder clamps the filter plate to form a filter chamber. Then, slurry is fed through the feed port at the top of the filter plate. The solid materials of the feed are accumulated as cake and the filtrate is discharged through the filtrate port.

Compression

Upon completion of the feeding process, diaphragm is inflated by water and compresses the accumulated materials in the filter chamber.

Cake Discharge

After completion of the compression process, all the filter cloths automatically travel down, around the lower plate roller and discharge the filter cake.

Cloth Wash

When the cake discharge is complete, the filter cloth returns to the original location and rinses the filter cloth with the automatic washing system to completely remove remaining cake.

YUCHEON's Fully Automatic Filter Press and Control Device

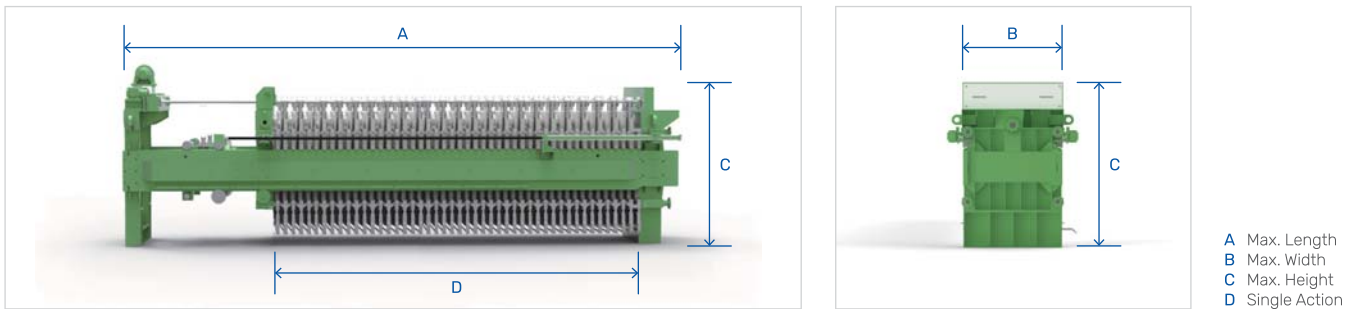
- Select among TF Type, BF Type, and CF Type according to the usage.
- Hydraulic pump unit compresses, opens, and closes filter press.
- Slurry pressurized pump presses(4-15kg/cm²) of slurry for solid-liquid separation into the filter press.
- Compression pump further lowers moisture content of slurry in the press after the solid-liquid separation. (Air compression for lower than 9kg/cm² of compression pressure and water compression for over 10kg/cm²)
- Air compressor/chamber tank cleans the liquid supply hole, compresses air and control the air-operating valve of Air Blow.
- Cake Discharge system discharges dehydrated results out of filter press using the belt conveyor.
- Filter cloth cleaning pump: Automatic cleaning system in the filter press cleans filter cloth with high-pressure water to prevent clogging.
- Automatic control panel for automation of the entire system.

Detailed Description of TF Type

TF Type maintains space between filter plates regularly. Up-down cleaning system of filter cloth removes cake from all plates at the same time. There are two types of TF Type, 'Single Action Type' and 'Double Action Type' and selection can be made in consideration of throughput and installation space.

Single Action

Basic TF Type. All plates open at the same time and the space between plates are maintained the same. Wide range of application. It can be used for a wide range of application.

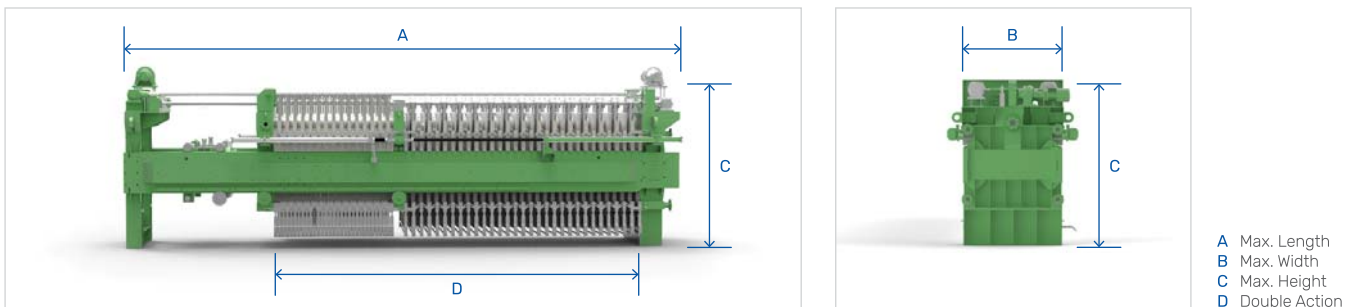


TF Frame Size Number of Chambers		Filtration area		A(Max. Length) Filter Press		B(Max. Width) Filter Press		C(Max. Height) Filter Press		Filter Press Weight Empty	
TF1500	TF1000	m ²	ft ²	mm	ft	mm	ft	mm	ft	kg	lbs
	30	50.1	539.3	6,950	22.8	2,200	7.2	2,250	7.4	25,500	56,271.9
	40	66.8	719.0	8,295	27.2	2,200	7.2	2,250	7.4	27,000	59,524.8
	50	83.5	898.8	9,640	31.6	2,200	7.2	2,250	7.4	28,500	62,831.7
30		108.0	1,162.5	7,757	25.5	3,500	11.5	3,000	9.8	33,000	72,752.5
40		144.0	1,550.0	9,187	30.1	3,500	11.5	3,000	9.8	40,500	89,287.2
50		180.0	1,937.5	10,617	35.0	3,500	11.5	3,000	9.8	47,500	104,719.6
60		210.0	2,260.4	12,047	39.5	3,500	11.5	3,000	9.8	54,500	120,151.9
80		280.0	3,013.9	14,907	48.9	3,500	11.5	3,000	9.8	68,500	151,016.7
100		350.0	3,767.4	17,767	58.3	3,500	11.5	3,000	9.8	82,500	181,881.4

* The measurement above is subject to change according to specifications (drawings).

Double Action

Double Action Type operates on the same number of chamber as the basic type by dividing left and right so that maximum throughput is achieved in the 'minimum space'.



TF Frame Size Number of Chambers		Filtration area		A(Max. Length) Filter Press		B(Max. Width) Filter Press		C(Max. Height) Filter Press		Filter Press Weight Empty	
TF1500		m ²	ft ²	mm	ft	mm	ft	mm	ft	kg	lbs
60		216.0	2,325.0	11,550	37.9	3,500	11.5	3,000	9.8	57,500	126,765.8
80		288.0	3,100.0	13,730	45.0	3,500	11.5	3,000	9.8	71,500	157,630.5
100		360.0	3,875.0	15,910	52.2	3,500	11.5	3,000	9.8	85,500	188,495.2

* The measurement above is subject to change according to specifications (drawings).

High Efficiency

Higher Performance, Lower Cost!

YUCHEON's Filter Press maintains the stable and continuous dehydration, production and waste management in a wide range of areas such as sewage, water purification, activated sludge, beverage manufacturing factory, mining, mineral, chemistry, and other application areas.

We add decades of expertise to TF Type filter press and offer a superior product to our competitors with excellent throughput, lowest cost and the lowest level of residual moisture required.

Advantages of Operation

- Very simple to operate
- Fully automatic operation
- Modular design and easy to access and maintain
- Minimal employee required

Economy

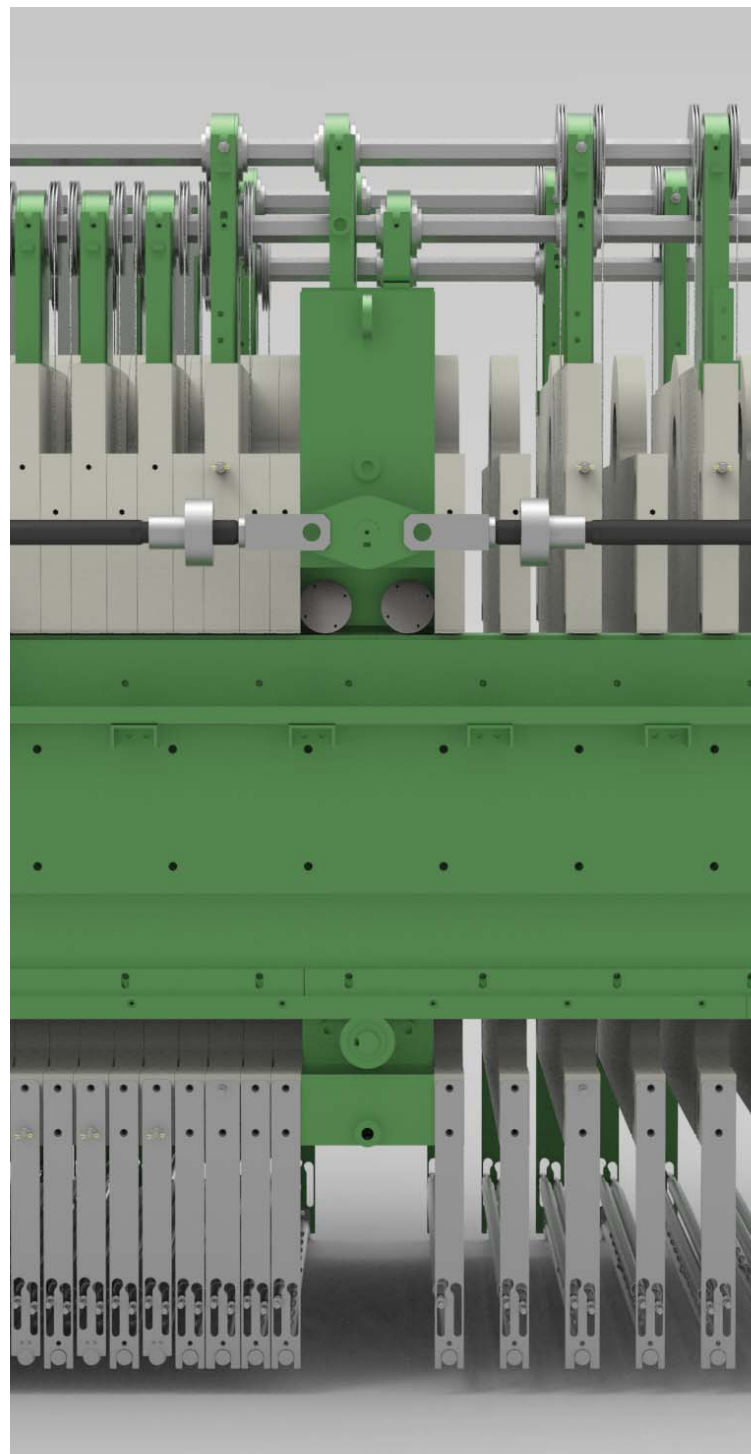
- Saving on final disposal costs
- Low maintenance costs
- Reduced labor costs
- Low energy consumption

Application

- Sewage treatment
- Activated sludge
- Harbour sludge
- Sludge in food and beverage manufacturing plant
- Contaminated soil
- Dredging
- Residue from quarries
- Various industrial sludges
- (Cement, Coal, Mineral, Concentrates, Copper, Zinc, Iron, Nickel, Silver, Gold Etc.)

Pilot Testing

Sludge test can be done to decide the right model of filter press and expect the best output of water content from all different types of sludge. Please send us your sludge sample if necessary as we offer sludge test service using our pilot machine at our site.



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