

Hydraulic round filter press

Description

Junyi series round type filter press is a high pressure filter (at 1.0---2.5Mpa). It has the feature of higher filtration pressure and lower moisture content in the cake.

Application Industries

Solid-liquid separation for stone wastewater, ceramics, kaolin, bentonite, activated soil, building materials and other industries.

Product Features

A. Filtration pressure: 2.0Mpa

B. Discharge filtrate method - Open flow: The filtrate flows out from the bottom of the filter plates.

C. Choice of filter cloth material: PP non-woven cloth.

D. **Rack surface treatment:** When the slurry is PH value neutral or weak acid base: The surface of the filter press frame is sandblasted first, and then sprayed with primer and anti-corrosion paint. When the PH value of slurry is strong acid or strong alkaline, the surface of the filter press frame is sandblasted, sprayed with primer, and the surface is wrapped with stainless steel or PP plate.

Circular filter press operation: Automatic hydraulic pressing, manual or automatic pull filter plate when discharging cake.

Optional devices of filter press: Drip tray, cake conveyor belt, water sink for receiving filtrate, etc.

E、 Circle filter press supporting the choice of feed pump: High-pressure plunger pump, please email for details.

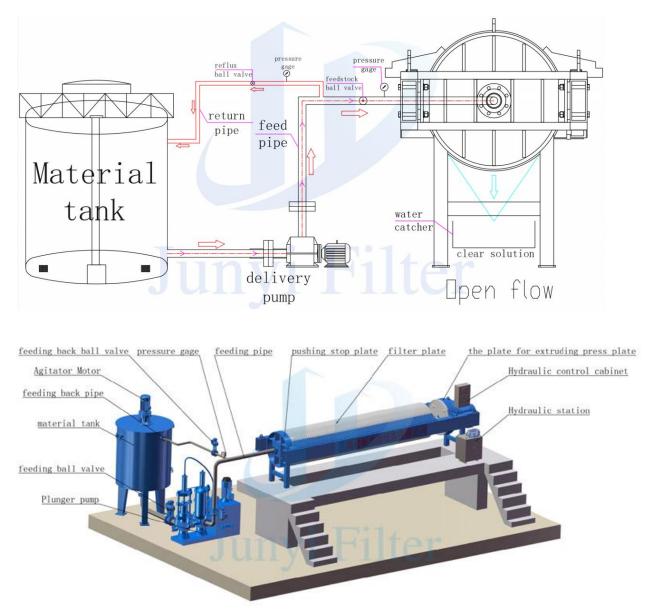




Filter Press Model Guidance							
Liquid name	Solid-liquid ratio (%)	Specific gravity of solids	Material status	PH value	Solid particle size (mesh)		
Temperature (°C)	Recovery of liquids/solids	Water content of filter cake	Working hours/day	Capacity/day	Whether the liquid evaporates or not		
		Juliyi					

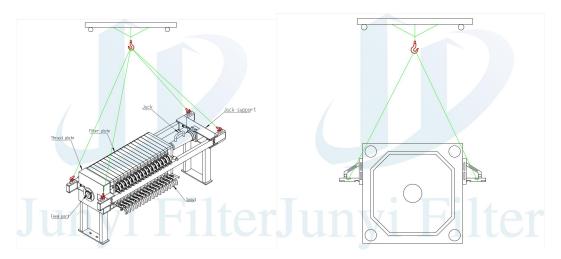


Feeding process



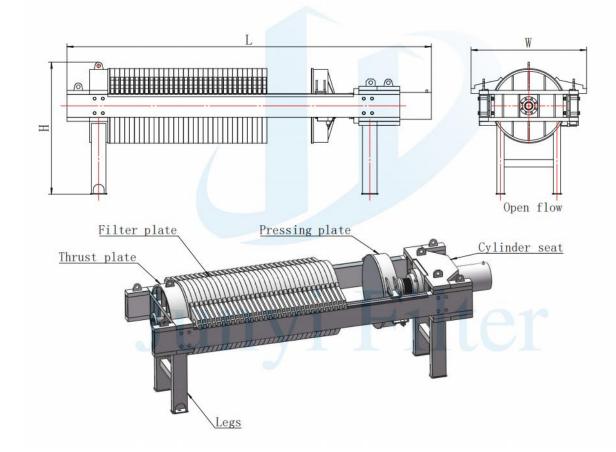
Hoisting diagram of filter press







Dimension Drawing of Circular filter press



Technical parameter

	Filter area		Chamber	Plate Qty V	Weight	Weight Motor (Kg) Power (Kw)	Overall dimension (mm)		Inlet	Outlet	
Model (m ²)	(m²)	(mm)	volume (pcs) (L)	(Kg)	Length (L)		Width (W)	Height (H)			
JYFPRA30/800	30		377	30	3590		3780				
JYFPRA40/800	40		499	40	4554	40	4300		1100	DN80	G1/2
JYFPRA60/800	60	Φ800	750	60	5600		5340	1200			
JYFPRA80/800	80		1160	80	6860	1					
JYFPRA60/1000	60		790	45	4510		4705				
JYFPRA80/1000	80	Φ1000	1030	60	4968	5.5	5500	1500	1400	DN80	G3/6
JYFPRA100/1000	100		1320	76	5685	1	6348				
JYFPRA90/1250	90		1160	41	7687		4905				G
JYFPRA130/1250	130	Φ1250	1700	60	8777	7.5	5950	7			
JYFPRA160/1250	160		2090	74	10490		6720	1800	1600	DN100	3/4
JYFPRA200/1250	200		2550	92	13060	1	7710	1			
JYFPRA120/1500	120		1550	37	13636		5150				
JYFPRA180/1500	180	Φ1500	2350	57	17134	11.0	6350	2200	1900	DN125	G1
JYFPRA230/1500	230		3000	73	19466		7310			0	
JYFPRA300/1500	300		3900	85	24130		8030				

Requirements for use of filter presses

1. According to the process requirements to make pipeline connection, and do water inlet test, detect the air tightness of the pipeline;

2. For the connection of the input power supply (3 phase + neutral), it is best to use a ground wire for the electric control cabinet;

3. Connection between control cabinet and surrounding equipment. Some wires has been connected. The output line terminals of the control cabinet are labeled. Refer to the circuit diagram to check the wiring and connect it. If there is any looseness in the fixed terminal, compress again;

4. Fill the hydraulic station with 46 # hydraulic oil, the hydraulic oil should be seen in the tank observation window. If the filter press operates continuously for 240 hours, replace or filter the hydraulic oil;

5. Installation of cylinder pressure gauge. Use a wrench to avoid manual rotation during installation. Use an O-ring at the connection between the pressure gauge and the oil cylinder;

6. The first time the oil cylinder runs, the motor of the hydraulic station should be rotated clockwise (indicated on the motor). When the oil cylinder is pushed forward, the pressure gauge base should discharge air, and the oil cylinder should be repeatedly pushed forward and backward (the upper limit pressure of the pressure gauge is 10Mpa) and air should be discharged simultaneously;

7. The filter press runs for the first time, select the manual state of control cabinet to run different functions respectively; After the functions are normal, you can select the automatic state;

8. Installation of filter cloth. During the trial operation of the filter press, the filter plate should be equipped with filter cloth in advance. Install the filter cloth on the filter plate to ensure that the filter cloth is flat and there are no creases or overlaps. Manually push the filter plate to ensure that the filter cloth is flat.

9. During the operation of the filter press, if an accident occurs, the operator presses the emergency stop button or pulls the emergency rope;



Main faults and troubleshooting methods

Fault phenomenon	Fault Principle	Troubleshooting			
	1. The oil pump is empty or the oil	Oil tank refueling, solve			
	suction pipe is blocked.	suction pipe leakage			
Severe noise or unstable	2. The sealing surface of the filter	Clean sealing surfaces			
pressure in the hydraulic	plate is caught with misc.				
system	3. Air in the oil circuit	Exhaust air			
system	4. Oil pump damaged or worn	Replace or repair			
	5. The relief valve is unstable	Replace or repair			
	6. Pipe vibration	Tightening or reinforcing			
	1. Oil pump damage	Replace or repair			
Insufficient or no prossure	2. Pressure adjusted incorrectly	recalibration			
Insufficient or no pressure	3. Oil viscosity is too low	Replacement of oil			
in the hydraulic system	4. There is a leak in the oil pump system	Repair after examination			
	1. Damaged or stuck high pressure relief valve	Replace or repair			
Insufficient cylinder	2. Damaged reversing valve	Replace or repair			
pressure during	3. Damaged large piston seal	replacement			
compression	4. Damaged small piston "0" seal	replacement			
	5. Damaged oil pump	Replace or repair			
	6. Pressure adjusted incorrectly	recalibrate			
Insufficient cylinder	1. Damaged or stuck low pressure relief valve	Replace or repair			
pressure when returning	2. Damaged small piston seal	replacement			
	3. Damaged small piston "0" seal	replacement			
Piston crawling	Air in the oil circuit	Replace or repair			
Serious transmission	1. Bearing damage	replacement			
noise	2. Gear striking or wearing	Replace or repair			
	1. Plate and frame deformation	replacement			
	2. Debris on sealing surface	Clean			
Serious leakage between	3. Filter cloth with folds, overlaps, etc.	Qualified for finishing or			
plates and frames	5. The cloth with folds, overlaps, etc.	replacement			
	4. Insufficient compression force	Appropriate increase i			
	4. Insumerent compression force	compression force			
	1. Filter pressure too high	turn down the pressure			
	2. High material temperature	Appropriately lowered			
The plate and frame are		temperatures			
broken or deformed	3. Compression force too high	Adjust the compression			
		force appropriately			
	4. Filtering too fast	Reduced filtration rate			
	5. Clogged feed hole	Cleaning the feed hole			



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	6. Stopping in the middle of filtration	Do not stop in the middle of filtration	
The replenishment system	1. The hydraulic control check valve is not tightly closed	replacement	
works frequently	2. Leakage in the cylinder	Replacement of cylinder seals	
Hydraulic reversing valve failure	Spool stuck or damaged	Disassemble and clean or replace the directional valve	
The trolley can't be pulled	1. Low oil motor oil circuit pressure	adjust	
back because of the back and forth impact.	2. The pressure relay pressure is low	adjust	
Failure to follow procedures	Failure of a component of the hydraulic system, electrical system	Repairorreplacesymptomaticallyafterinspection	
	1. insufficient air pressure	Reduced press pressure	
Diaphragm damage	2. Insufficient feed	Pressing after filling the chamber with material	
	3. A foreign object has punctured the diaphragm.	foreign matter removal	
Bending damage to main beam	1. Poor or uneven foundations	Refurbish or redo	

Note: Above data for reference, we also accept customization.

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