

EQUIPMENT

LONGYUAN FILTER PRESS

PROFESSIONAL SOLID-LIQUID
SEPARATION EXPERT



ZHEJIANG LONGYUAN EQUIPMENT TECHNOLOGY CO., LTD

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ZHEJIANG LONGYUAN EQUIPMENT TECHNOLOGY CO., LTD.



ENTERPRISE PROFILE

Established back in 2007, Longyuan Equipment Inc. is a professional filtration system overall solutions provider. As an Automatic Filter Press manufacturer, we offer a wide range of filter presses with up-to-date technology suitable for both standard and heavy-duty performance levels. Our business including PP Recessed Plate (Polypropylene), PP Membrane Plate, CGR Plate, and sophisticated range of accessories for all cases. Having developed great experience by working in various applications, which present some of the most difficult slurries to treat and require high pressure to obtain great results, Longyuan filter press will handle any slurry in any sector.

Under the support of up-to-date tooling equipment, which can produce high-difficulty and high-complexity filter press, Longyuan has become the first-class producer of China.

As a company, our concentration is not limited to designing and manufacturing but we also provide support related to the servicing and consultation for filtering. Right from suggesting the right kind of filter press to providing pilot trail press for filtration trials, our experienced team is always ready to serve you better. And our products are widely used in new energy, environmental protection, chemical, mineral smelting, non-metallic, pharmaceutical, food and other industries.

QUALIFICATION CERTIFICATE

COOPRATIVE PARTNER

HONOR AND QUALIFICATION

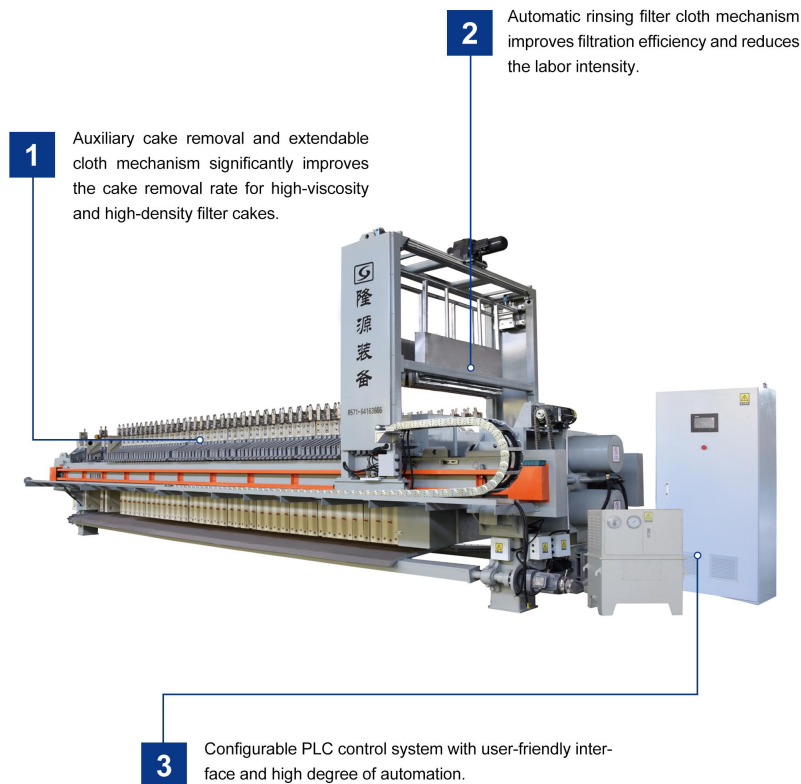


INVENTION PATENT

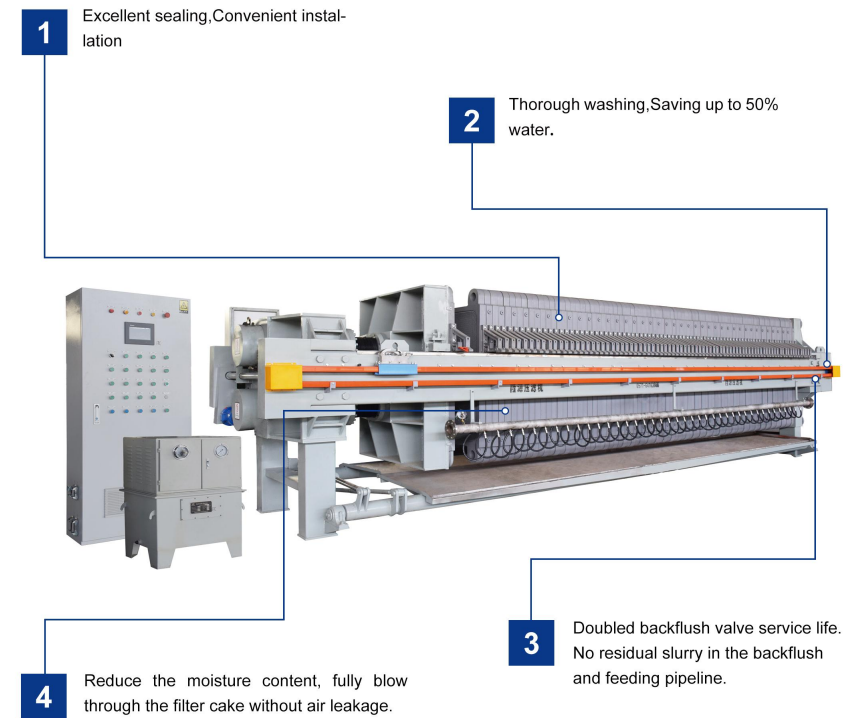


PRODUCT INTRODUCTION

XZEGQF Series Fully-Automatic Filter Press With Extendable / Rinseable Cloth Mechanism

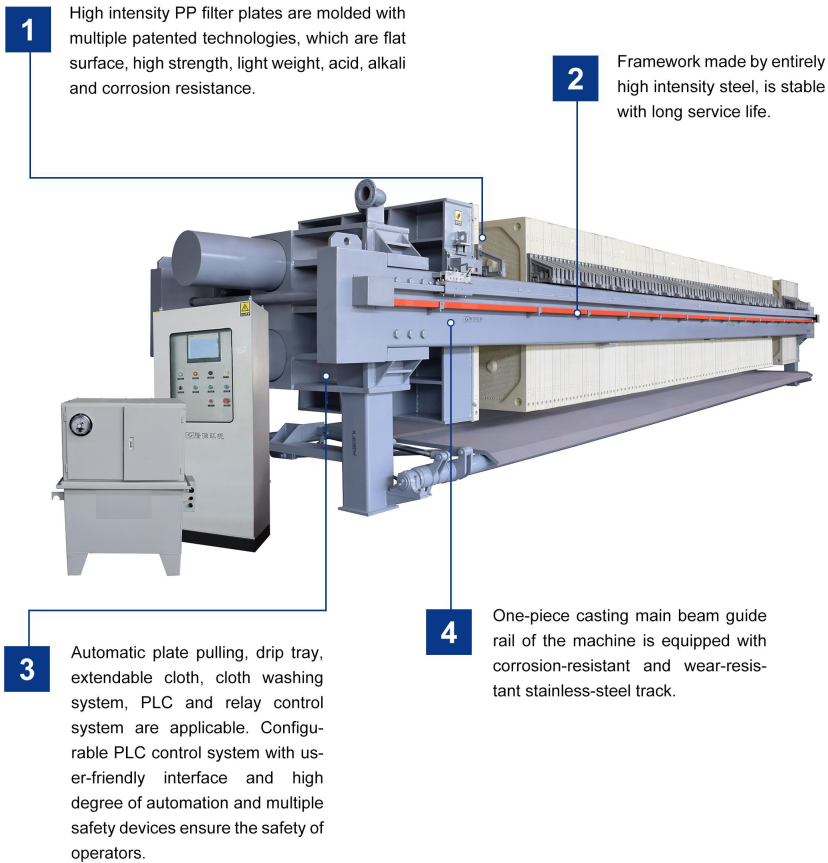


Single feed filter press with back blowing

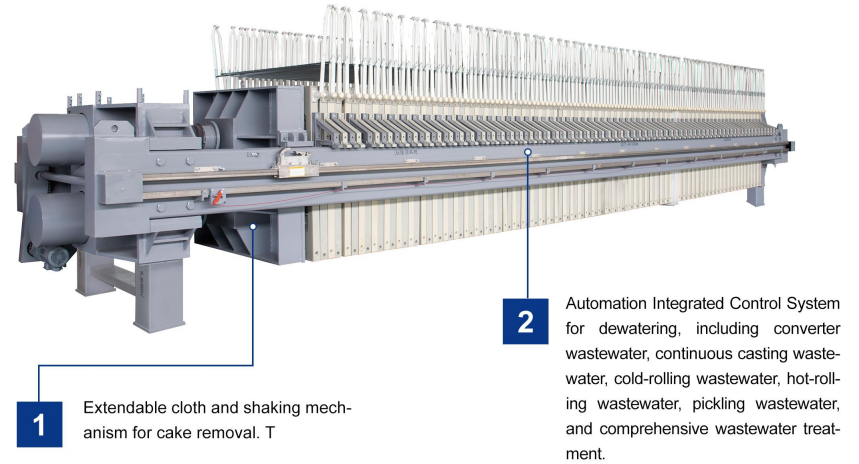


PRODUCT INTRODUCTION

X_M^AZ/2000-U_K^B SERIES



XZGMF Series Filter Press



Special Filter Plate For Food Industry



PRODUCT INTRODUCTION

Plate Shifting Device

The system shifts the individual plates, opens the filtration chambers, and allows the emptying of the filter press. Automatic shifting replaces manual handling of the plates.



Plate shifter mechanism is used to transport the filter plates. It gradually shifts plate one by one in Auto Mode & through Hand Held Remote Control in Manual mode and allows the emptying of the filter press. This process can be paused anytime and the operator can remove possible impurities from the cloth. This mechanism pulls open the individual plate, the cake formed between the plates generally falls down by gravity. Generally used for faster filter cake discharge. Speed of the plate shifter can be adjusted in filter press.

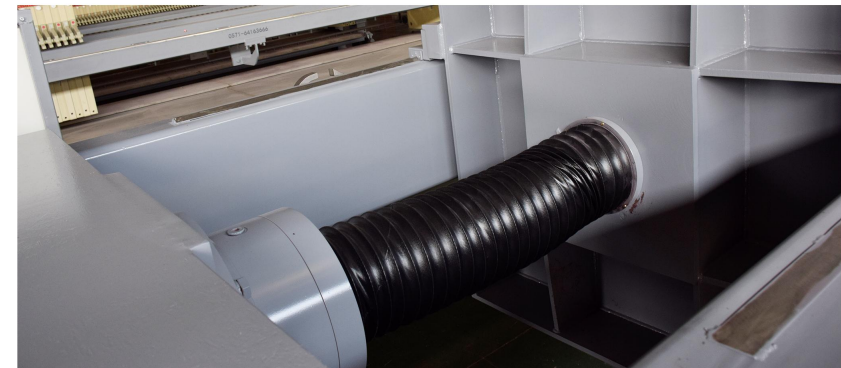
Benefits and fields of use

- Designed mainly for filter presses with large plates or a great number of plates.
- Significant facilitation of the filter press attendance—two workers are needed for manual shifting of large plates, and only one worker is needed to check the process of emptying of the filter press during automatic extraction
- Process automation and shortened emptying period
- Adjustable speed of plates shifting

Hydraulic Cylinder

Lock Nut Cylinder

Keep Lever 'FORWARD' side on Hydraulic Power pack. The cylinder goes to Distance Piece Side with Moving Head and filter plate are pushed together. At that time when Cylinder's threaded Ram go forward, Lock the nut of Ram. When pressure reached at maximum working pressure which is set by Pressure Control Valve, try to full tight lock nut of Ram. Check whether the maximum closing pressure has been reached on the contact pressure gauge.



Pull Back Cylinder

Filter Press is equipped with Pull Back type Double Acting Hydraulic Cylinder dully honed from inside and dully coupled with moving end head, which Brings Moving Plate Forward - Reverse hydraulically. A hydraulic system uses oil to power an actuating cylinder piston. This component is moved to achieve a specific task. A double acting cylinder uses two lines and gives you the full power of your hydraulic system in both directions.

PRODUCT INTRODUCTION

Automated Drip Tray



The swivel plate / drip tray is the automated further development of the simplified, manual drip tray. It consists of two drip tray supports that perform an automatic ramp-up movement when the filter press is emptied, so that the filter cake can drop downwards. After the emptying process, the swivel drip tray closes again and any dripping water that may be produced passes over the tray supports into the filtrate channel again. The entire system, like all other functions, is driven by a hydraulic unit. The system is operated automatically by the press control system. If necessary, the operator switches to manual operation. The drip tray supports are primarily made of PP or stainless steel.

Benefits Of An Automated Swivel Drip Tray

- Opening and closing during emptying takes place automatically, saving time and personnel costs
- The opened swivel plate takes over a funnel function for the filter cake, so that the sloping filter cake is specifically directed downwards

Electric Control Panel

Touch screen with very good resolution can provide all diagnosed information of the Filter Press and also allows adjusting the Filter Press process control. The functions can include: auto pressing and releasing, auto high pressure unloading, auto pressure holding, auto feeding, auto squeezing and discharging, auto blowing, auto cake discharge, auto plate shifting and taking, pause and the full course of close and open of drip tray. It can be controlled both manually and automatically, also can add infrared light curtain protection program according to requirements of clients.



To meet the requirements for the presentation and the operation of your processes, we also increase the performance of the operating devices and the controls. We are not bound to individual manufacturers. PLCs and process control systems from Siemens, Allen-Bradley, Schneider, ABB and several more have been successfully used.

PRODUCT INTRODUCTION

Hydraulic Power Pack

The hydraulic power packs are used to control the cylinders which move the plates. It is a self-contained unit that consists mainly of a motor, a reservoir and hydraulic pump, using fluid to transmit power from one location to another. Hydraulic power packs can generate massive amounts of power which can be used to drive hydraulic Filter Press. Our Hydraulic power pack units are designed for low noise, vibration free with excellent heat dissipation properties.



We have designed and created hydraulic power packs composed of:

- 65L / 200L / 270 liter tank
- Customized Hydraulic Manifolds
- Hydraulic Unloading Relief Valve

Cloth Washing

This system makes it possible to wash the cake residues off the cloth using water under pressure. Washing is performed simultaneously on both sides of the plate.



This device is installed in the upper part of filter press. It's made up of washing rail, washing frame, washing frame driving travel device, inlet pipe, towing chain, washing pipe, nozzles, washing pipe lifting device, reducing motors etc. It can finish cloth washing in co-operation with plate shifting device under the control of PLC. This system makes it possible to wash the cake residues off the cloth using water under pressure. Washing is performed simultaneously on both sides of the plate.

Benefits and fields of use

- Regular washing of the cloth maintains its permanent permeability – the filtration resistance due to clogging of the cloth by the cake residues does not increase
- Lower loading of the feed pump leads to significant extension of its service life
- The service life of the cloth is extended