

YUWEI FILTER EQUIPMENT

Yuwei fine filtration, Strive for excellence

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COMPANY PROFILE

Yuwei Filtration Equipment Co., Ltd., founded in 2017, specializes in the R&D, customization, production, and application of precision stainless steel filtration equipment and filter presses. As an integrated supplier and engineering solutions provider, the company combines production, manufacturing, research, sales, and international trade.

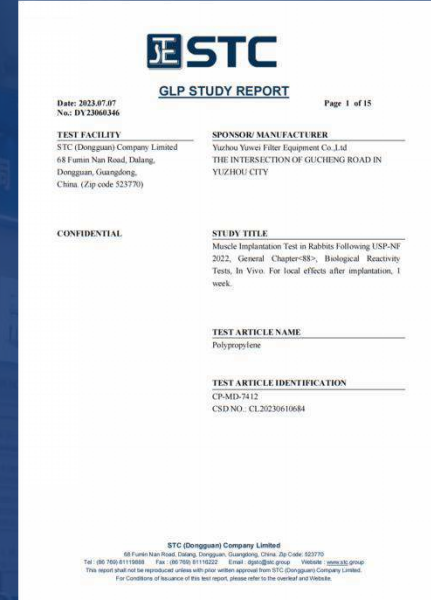
Yuwei's products serve markets across China and internationally. The company has successfully completed **over 70,000 customer projects**, holds **16 product patents**, and offers 42 product specifications.

Yuwei holds major international certifications including **ISO 9001** (Quality), **ISO 14001** (Environmental), and **ISO 45001** (Occupational Health & Safety). Its products carry global approvals such as **EU CE, German TÜV, and French BV certification**, underscoring its position as a globally oriented enterprise.

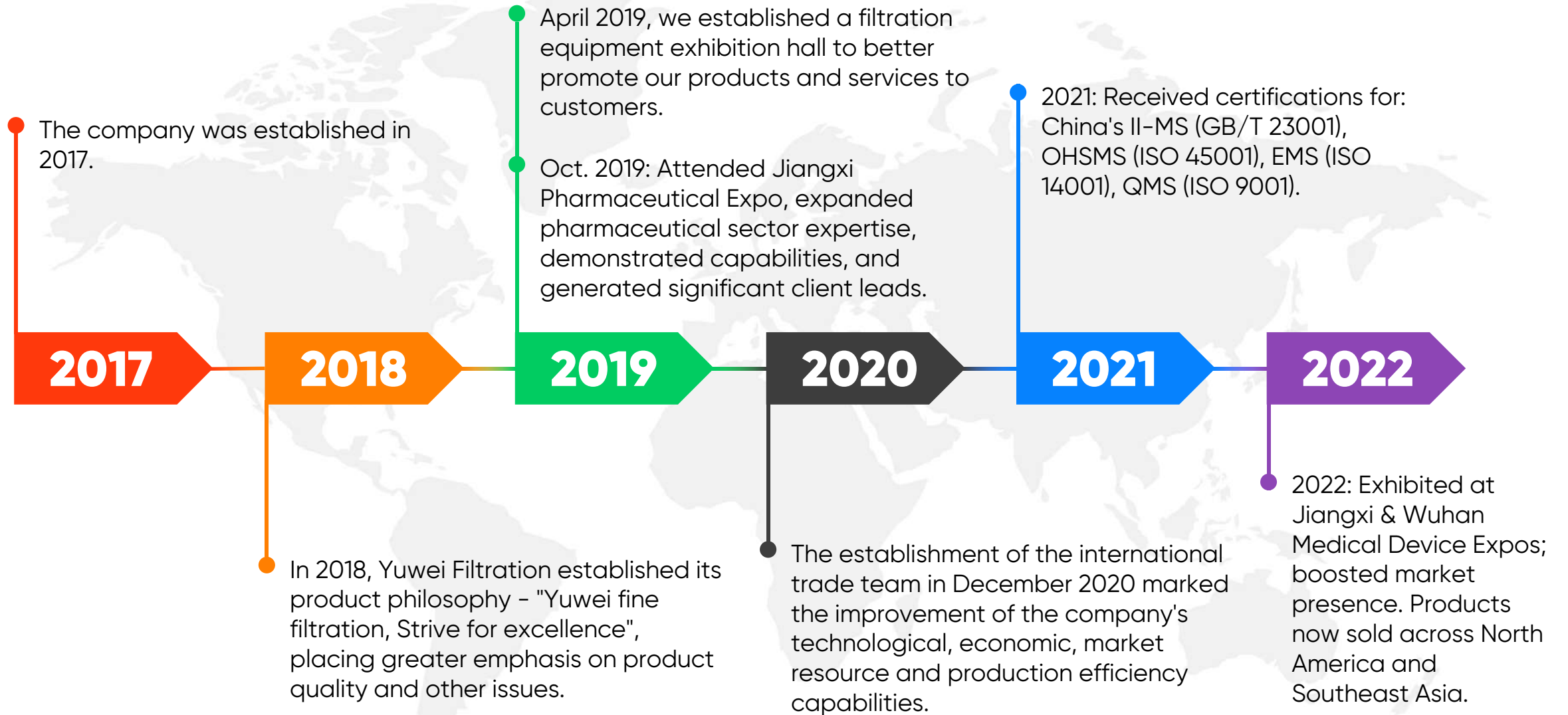
Company patent

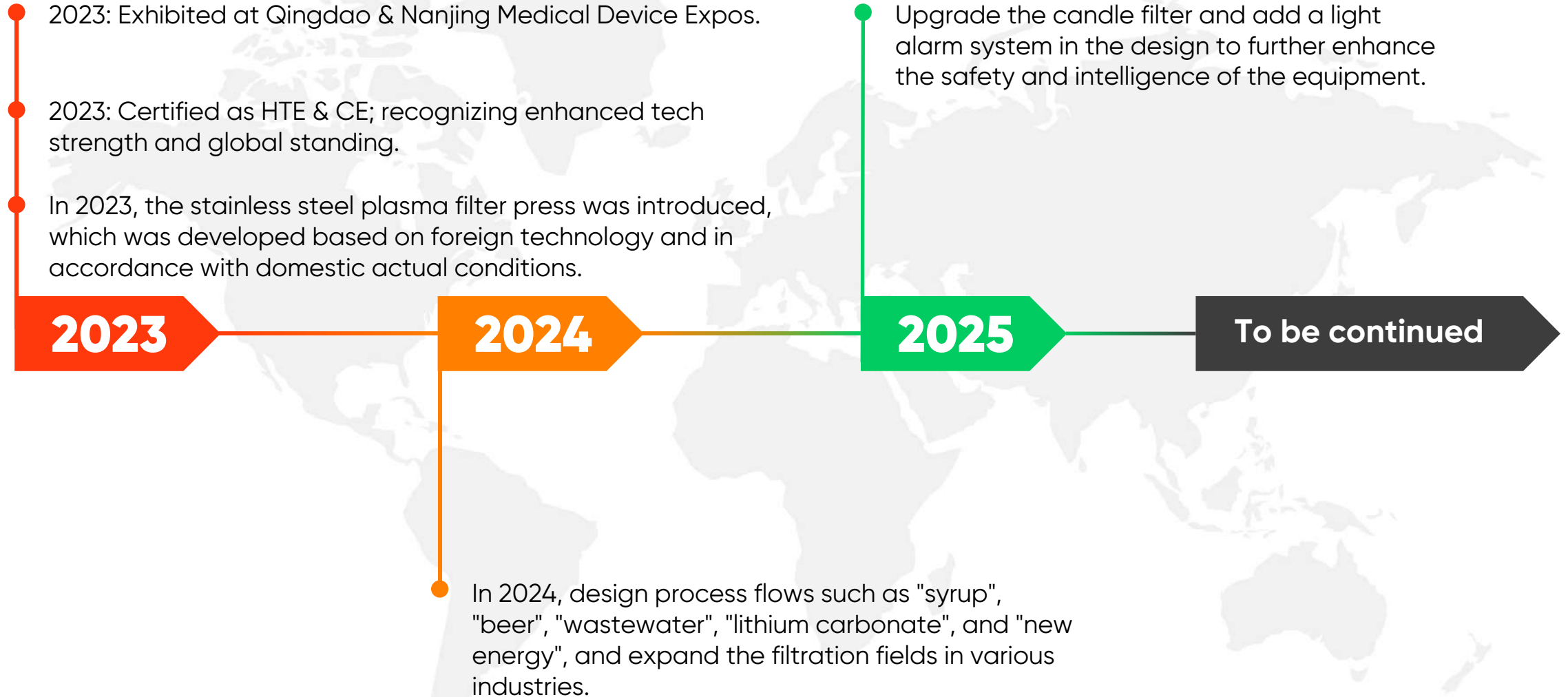


Company certificate



DEVELOPMENT HISTORY

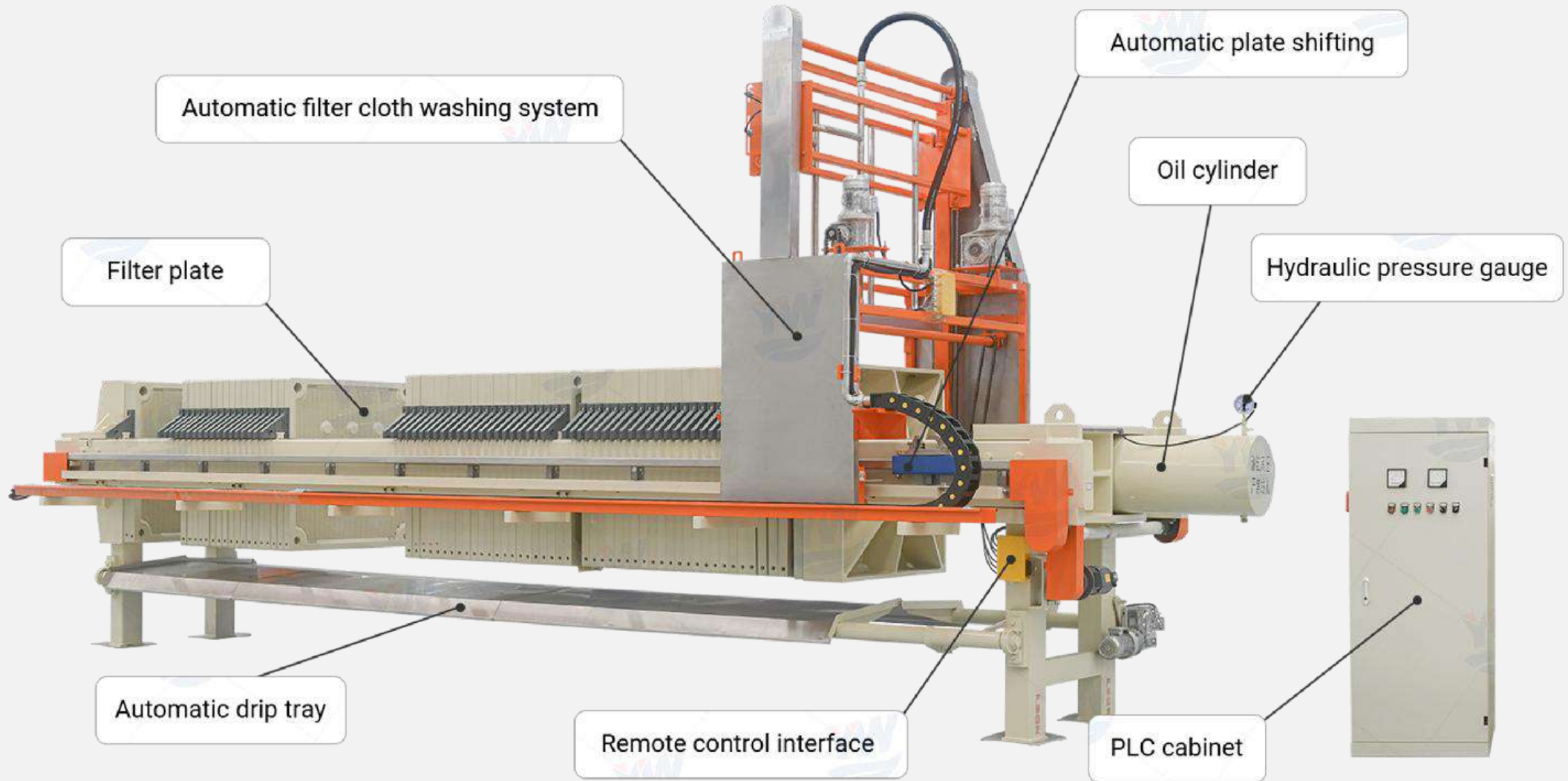


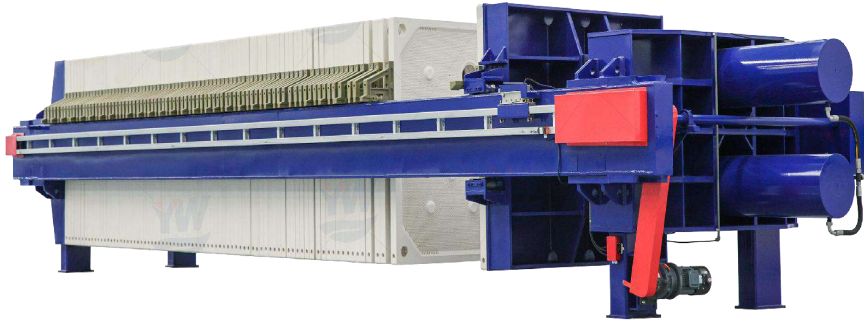


PRODUCTS INTRODUCTION

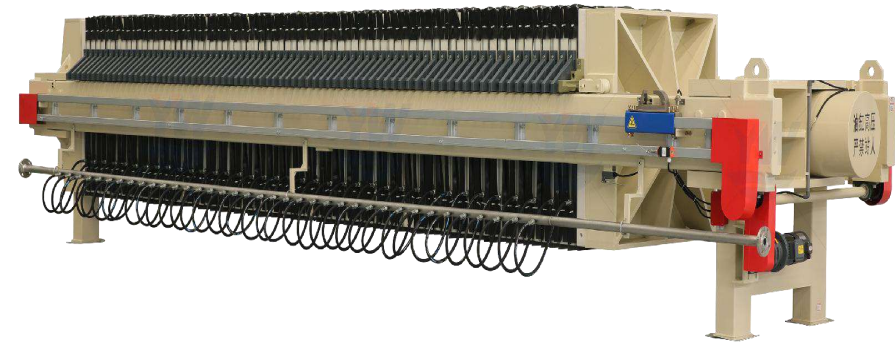


Filter Press

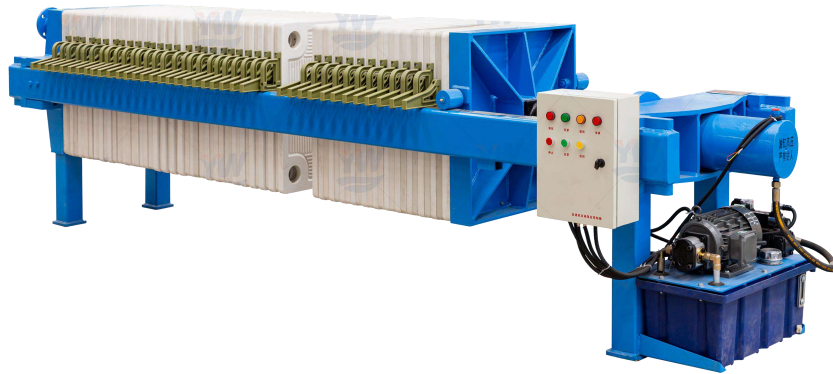




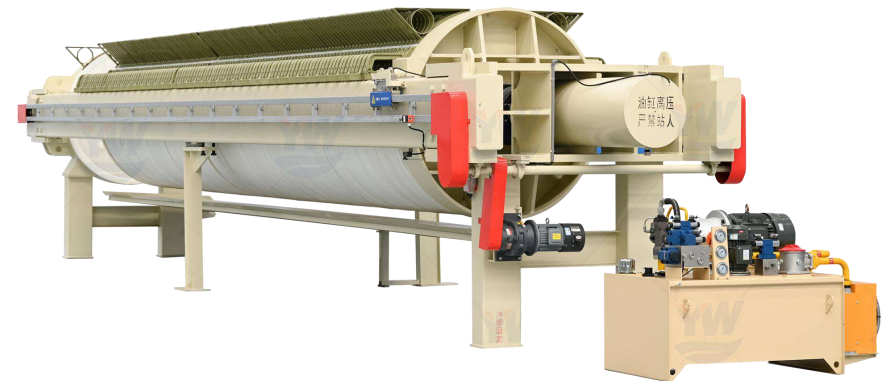
High Pressure Chamber Filter Press Machine



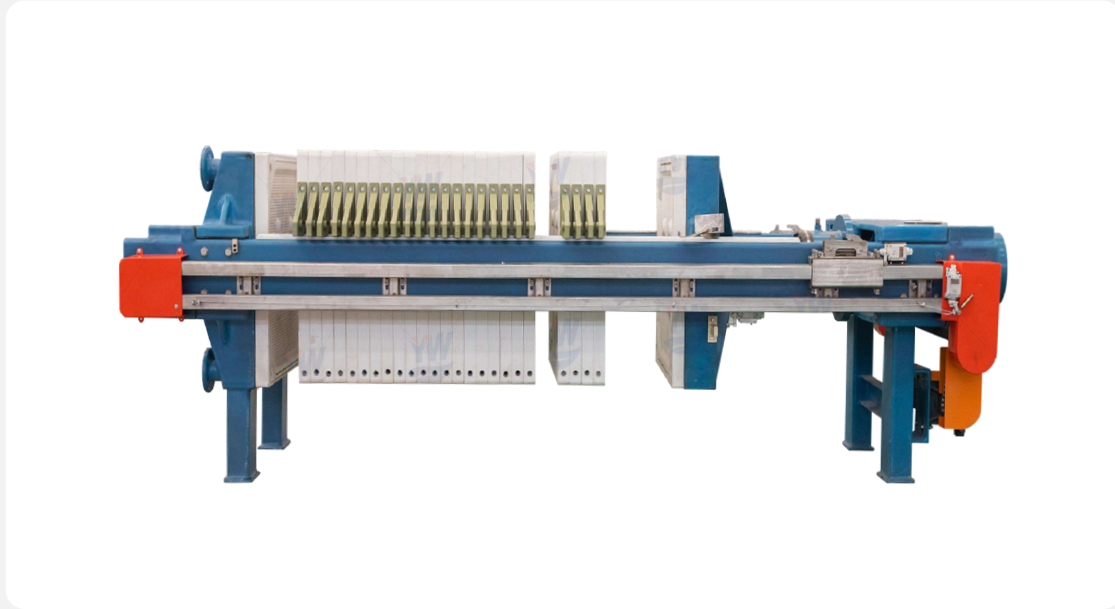
Automatic High Pressure Membrane Filter Press



Hydraulic Plate and Frame Filter Press



High Pressure Round Plate Chamber Filter Press



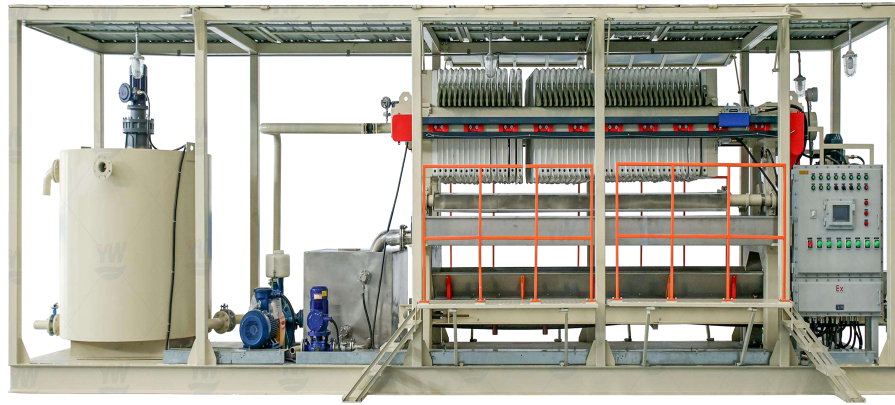
Filter Press With PP Coating

During the filtration process, the filter press needs to come into contact with various chemicals, especially strong acids, strong alkalis or corrosive substances. The filter press can be protected and its durability can be enhanced after being lined with plastic. It will not chemically react with the filtrate, thus ensuring the filtration effect.



Stainless Steel Coating Filter Press

Stainless steel coated filter press, the machine body is covered with stainless steel, the filter plate is made of PP material, used in food, pharmaceutical, chemical industry, it can reach food grade, anti-rust and corrosion.



Fully Automatic Skid Mounted Membrane Filter Press

Skid-mounted filter presses adopt a modular design with relatively high integration. When relocating application sites, the entire unit can be hoisted and moved to enable seamless operational transition. This makes them suitable for scenarios requiring periodic relocation within relatively fixed operational areas.



Mobile Vehicle-Mounted Portable Sludge Filter Press

Mobile vehicle-mounted filter presses are specifically designed for high mobility and urgent tasks. They are particularly well-suited for cross-regional sludge dewatering operations, such as segmented dredging across multiple rivers. These units can continuously transfer between sites without installation and are ready-to-operate immediately upon arrival.



Drum Concentrated Belt Filter Press

The belt filter press is a continuous operation dewatering machine that separates sludge solids and liquid from the wastewater. Belt filter press are used both municipally and industrially in a range of areas including urban sewage and wastewater treatment, metallurgy and mining, steel plants, coal plants, breweries, dyeing, tanneries, as well as chemical and paper factories.



Three Filter Belt Type Concentrated Filter Press

The concentration integrated belt filter press is an industrial machine used for sludge thickening and dewatering. This product is suitable for treating all kinds of sludge in municipal sewage treatment, chemical industry, textile, printing and dyeing, papermaking, leather, pharmaceutical, brewing, feedlot and other industries.

Depth Filter Press

The Plasma Filter Press is a purpose-built sealed filtration system designed to meet stringent pharmaceutical industry requirements. Its design, material selection, and surface finishes comply with the highest hygienic standards, while the dual-seal mechanism—combining O-rings on filter plates with an inner filter layer—guarantees 100% leak-proof containment for critical filtration processes.

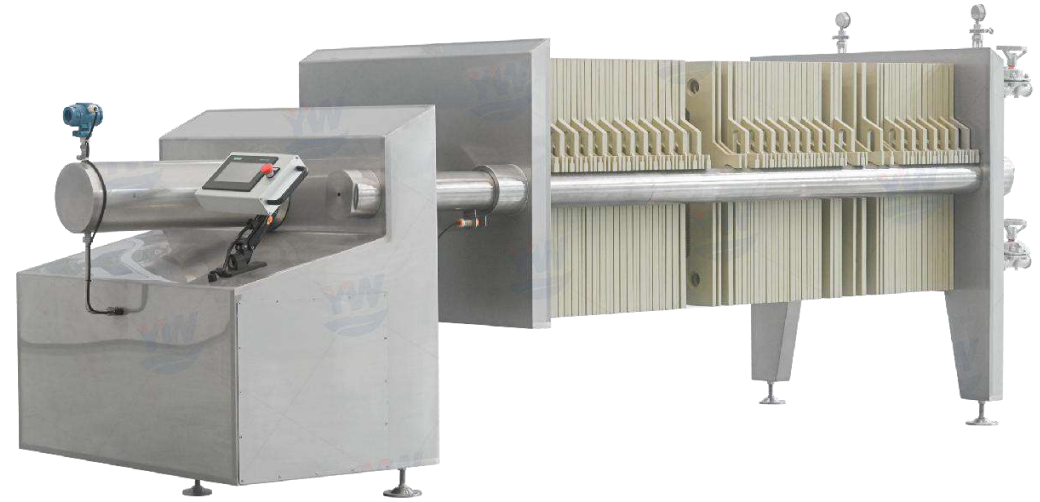
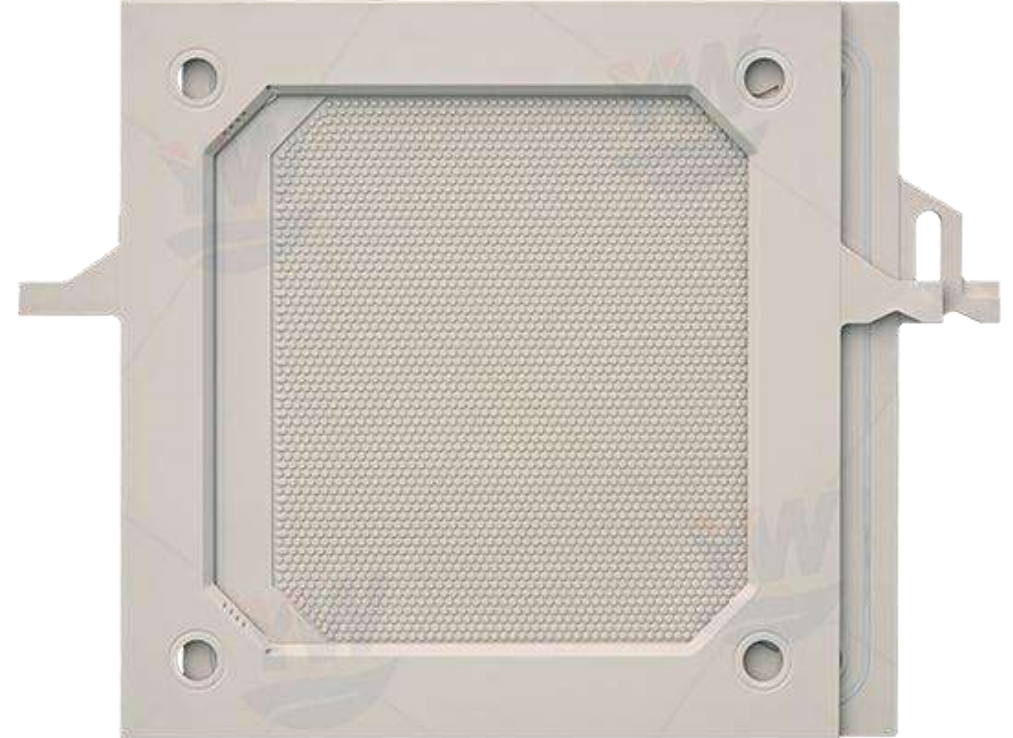


Plate & Frame

- The filtration system is completely enclosed by circle O seal ring.
- It can be CIP cleaned online, and compared to the strip shaped drainage profile, the convex point shaped drainage profile can significantly improve the drainage efficiency.
- The suspension of filter medium on the product channel is our special design, Filter frame with different thicknesses can provide maximum flexibility in application, and the filter cake capacity and filter area can best meet the process requirements. There are no rough spots on the filter plate that can accommodate impurities, and the design meets GMP requirements to ensure that the filter press is easy to clean.



We can provide proof documents of the plate and frame material, such as PP USP classVI certificate

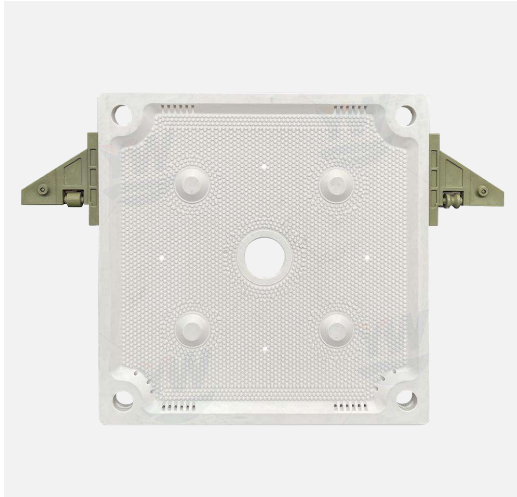
Cotton Cake Filter Press

Cotton cake filter press is a classic choice in the field of high-precision, low-shear filtration, especially suitable for industries that are sensitive to liquid purity, such as edible oil, biopharmaceuticals, and high-end chemicals. Its core value lies in achieving accuracy close to membrane filtration at a lower cost, but it is necessary to avoid unsuitable scenarios such as high solid content, extreme pH, and extreme temperature.

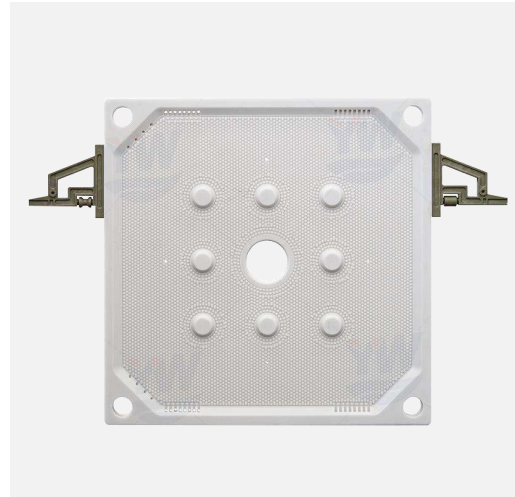




Filter Plate



Chamber Plate



Membrane Plate



Corner-feed plate



Circular filter plate

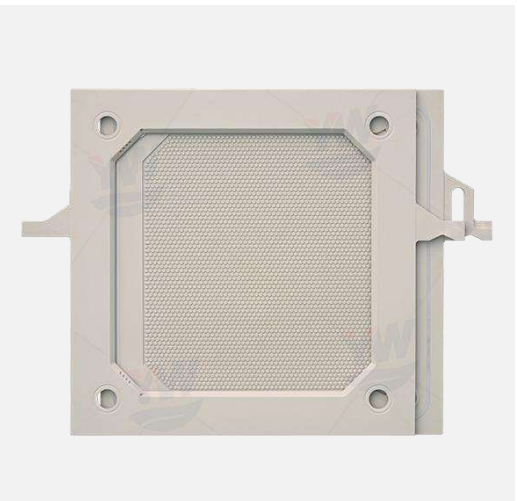
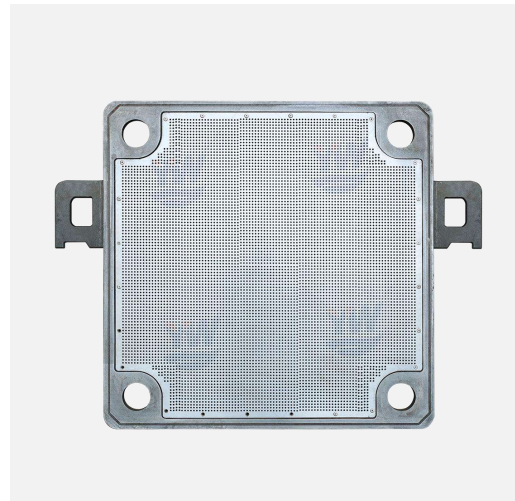


Plate & Frame



Cast Iron Plate



Cast Iron Plate



CGR Plate



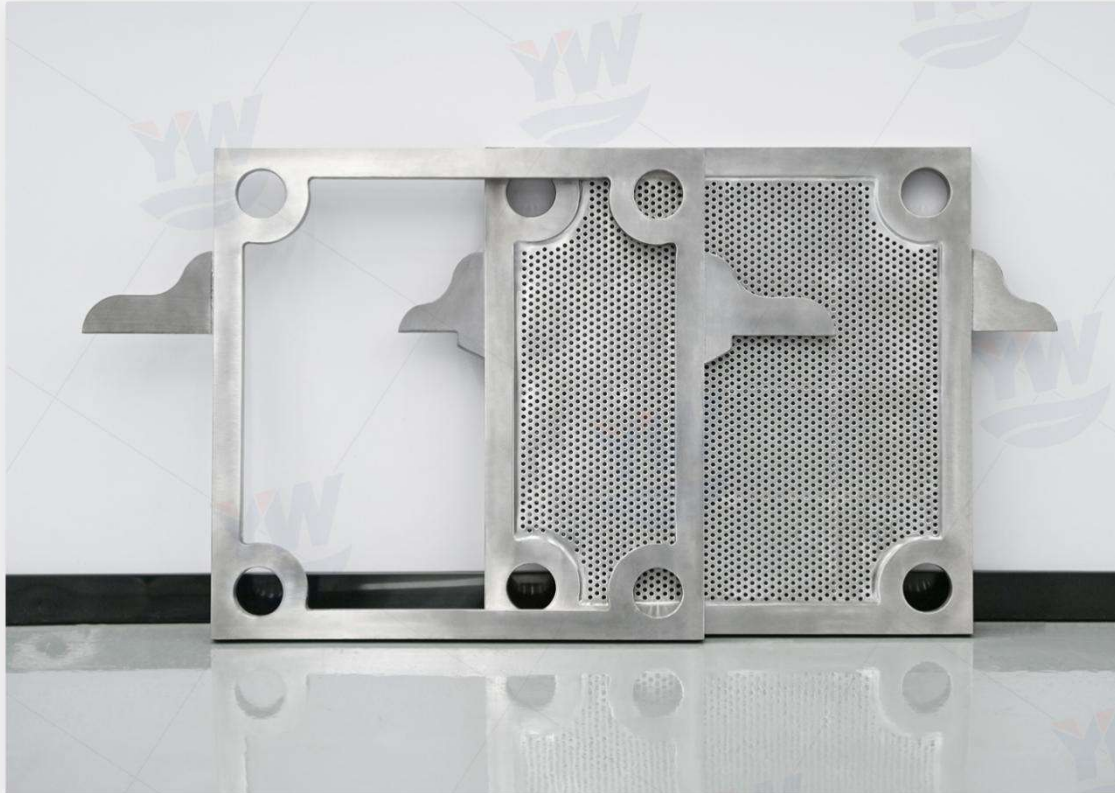
Stainless Steel Plate & Frame Filter Press

Manual Hydraulic Plate and Sheet Filter

The stainless steel plate & frame filter press machine is made of 304 or 306 high-quality stainless steel materials, corrosion-resistant, high temperature and pressure resistance. Compared with ordinary stainless steel plates and frames, it has the characteristics of large filter chamber volume, pressure resistance and high temperature resistance, and large filter plate size. It is mainly used for large-scale industrial production in chemical industry, pharmaceutical intermediates, fine chemicals, metallurgy, petroleum, edible oil and other industries.



Stainless Steel Plate & Frame





Stainless Steel Plate & Frame Filter

Manual Plate and Sheet Filter

Regular



Thickened filter frame

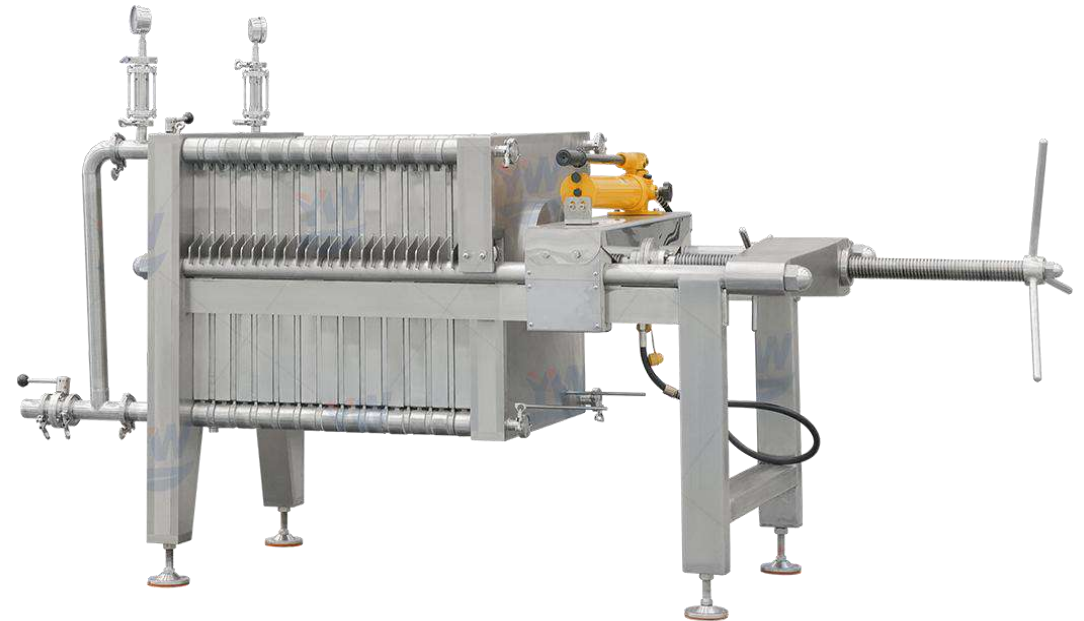


Manual Hydraulic Plate and Sheet Filter

Regular

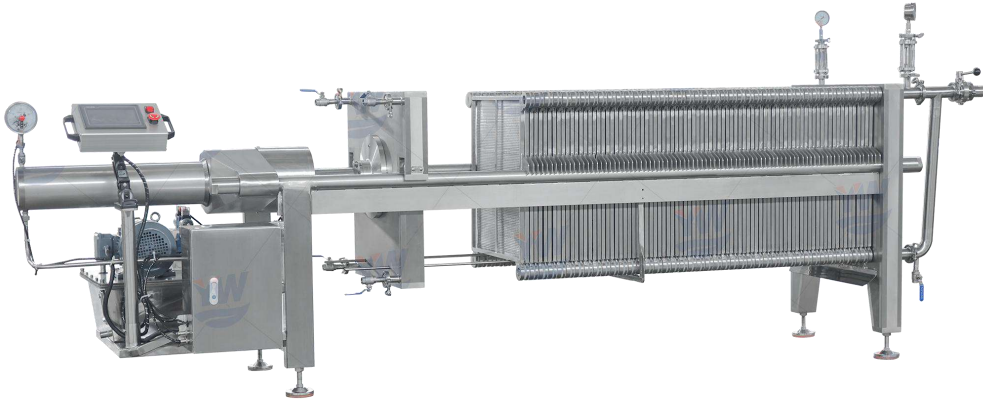


Thickened filter frame

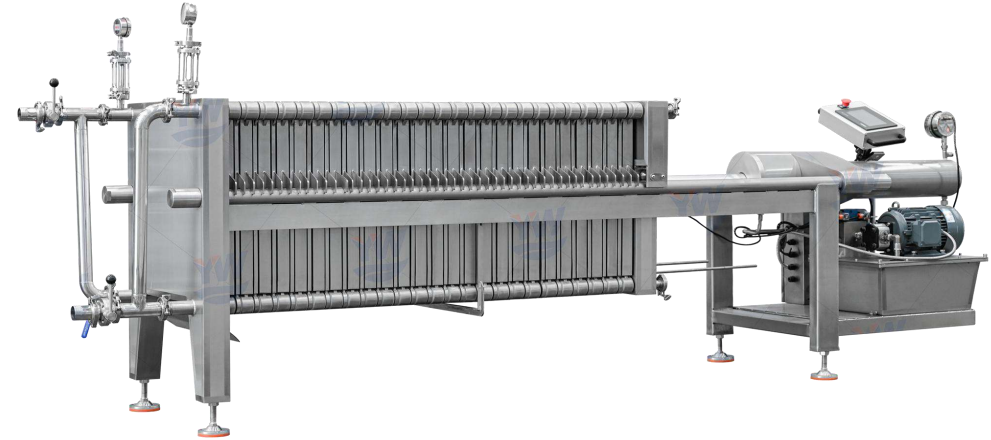


Automatic Hydraulic Plate and Frame Filter Press Machine

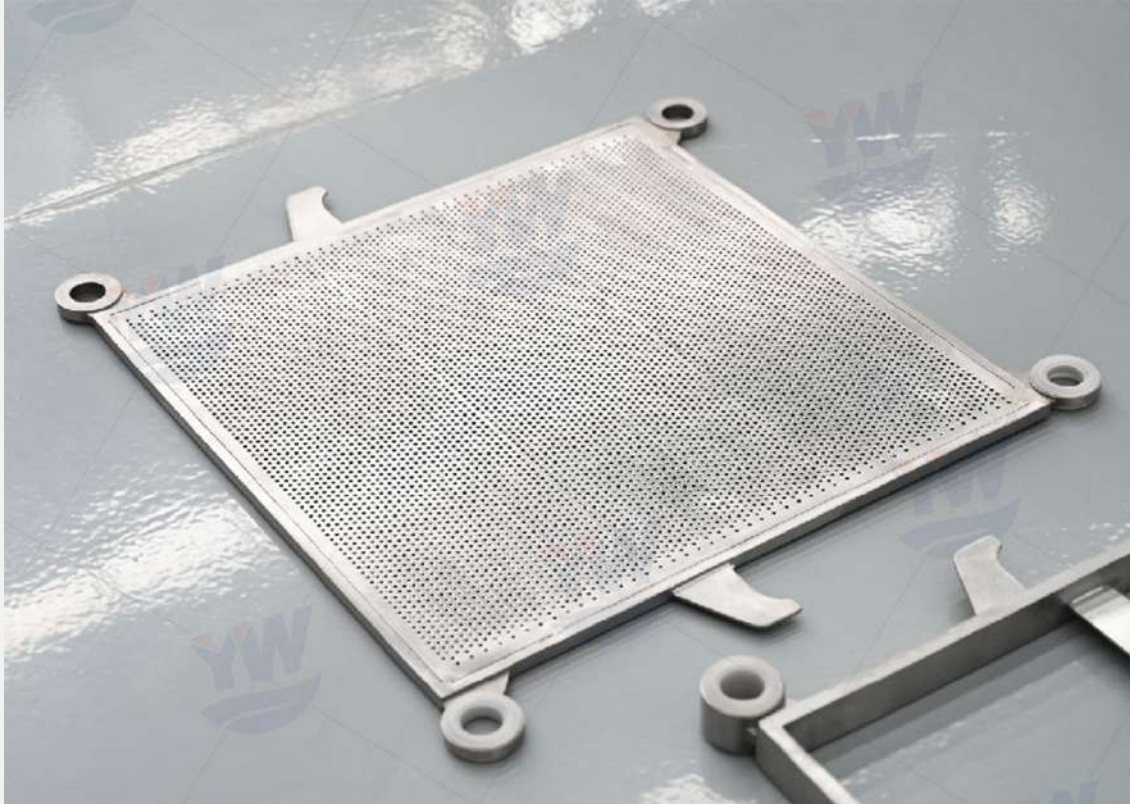
Regular



Thickened filter frame



The PLC-controlled automatic hydraulic stainless steel plate and frame filter press features an integrated hydraulic system and PLC-based automation, delivering user-friendly operation with a filtration area of 35 m². Designed for precision liquid processing in food, beverage, pharmaceutical, and chemical industries, this unit supports both sterilization-grade filtration (0.1μm) and coarse filtration (up to 10μm) through configurable food-grade filter plates—including diatomaceous earth or cellulose media.



Stainless Steel Plate



Stainless Steel Frame



Filter Housing



■ Candle Filter

The candle filter is an automated pressure filtration device, mainly composed of a housing, filter element, filter cloth, filter aids, computercontrol system and accessories. Other auxiliary equipment includes air compressors, pressure sensors, etc.

Applications

- In industrial manufacturing, candle filters are commonly used in liquid handling, solvent recovery, wastewater treatment, and particulate matter purification.
- In the field of liquid treatment, candle filters are commonly used in the petroleum, chemical, pharmaceutical and food industries, etc., to effectively remove residues and impurities and ensure product quality.
- In the food and beverage industry, candle filters can be used to clarify liquids such as juice, beer, and wine.



■ Horizontal Plate D.E Diatomite Filter

The Horizontal Plate D.E Diatomite Filter Machine adopts Swiss and Italian filtration technology and German manufacturing technology. It has the characteristics of long filtration cycle, high efficiency, stable filtration quality, low filtrate loss, high degree of automation and complete configuration. It is mainly used for clarification and filtration of liquid products in liquor, beer, wine, beverages, sauce and vinegar, as well as medicine and chemical industry.



■ PA/PE Micropore filter

PA/PE micropore filter is a high precision rating of fine filtration equipment. The filter mainly uses PA/PE micropore filter cartridge sintered from macromolecular materials as the filter medium, with high filtration precision rating, the filter element can be regenerated and long lifespan.

The PA/PE micropore filter adopts a fully enclosed filtration method, and it can equipped with pneumatic valves and PLC, which has a high degree of automation compared with ordinary filter.

Vertical Pressure Leaf Filter

The pressure leaf filter is a high-efficiency, energy-saving, enclosed-operation precision clarification and filtration equipment. The vertical pressure leaf filter systems is mainly used for the filtration of sugar, cocoa or edible oil. No filter paper, filter cloth or filter element is consumed, only a small amount of filter aid is consumed, the filtration cost is low, and the equipment is easy to operate and maintain.

The equipment can be customized for manual filter cake discharge and automatic filter cake discharge. According to the process requirements of filtration, the airtight container has two materials of carbon steel and stainless steel for users to choose.





SS Bag Filter



Automatic Duplex Bag Filter



PP Bag Filter

Cartridge Filter Housing

The filter housing is constructed from SUS316L/SUS304 stainless steel, with cartridge options including PP pleated, PTFE pleated, PES pleated, nylon pleated, stainless steel, ceramic, or titanium rod filters. High-flow cartridges are available for selection based on material compatibility, micron rating, and application requirements.

Materials

- Filter housing : SS316L, SS304, PP, PPR, PTFE, Carbon steel, Titanium
- Filter housing lining : PTFE lining, PP lining, enameled
- Filter housing surface : Mirror polishing, Sand blasting, Matte
- Filter cartridge : PP, PTFE, PES, Nylon, SS304/316, Ceramic, titanium rod
- O-Types seals : NBR, VITON, PTFE, PTFE with VITON coating, PTFE with silicone rubber coating





■ Three-stage Filter Machine

Yuwei Three-stage filter machine are primarily applied in industries including pharmaceuticals, beverage production, beer brewing, vinegar manufacturing, and chemical processing.

Three-stage filtration

- The first stage is a pre-filtration filter, it mainly intercepts particles from the liquid, it usually is a bag filter.
- The second stage usually is for purifying the liquid, there are different filters selectable, PP melt-blowing cartridge filter, diatomaceous earth filter, membrane stack filter and so on.
- The third stage is for sterilize the liquid that will remove 99.9% bacteria in the liquid, the filter can be selected a pleated cartridge filter, sheet filter.

Pharmaceutical industry



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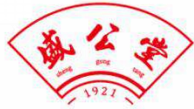
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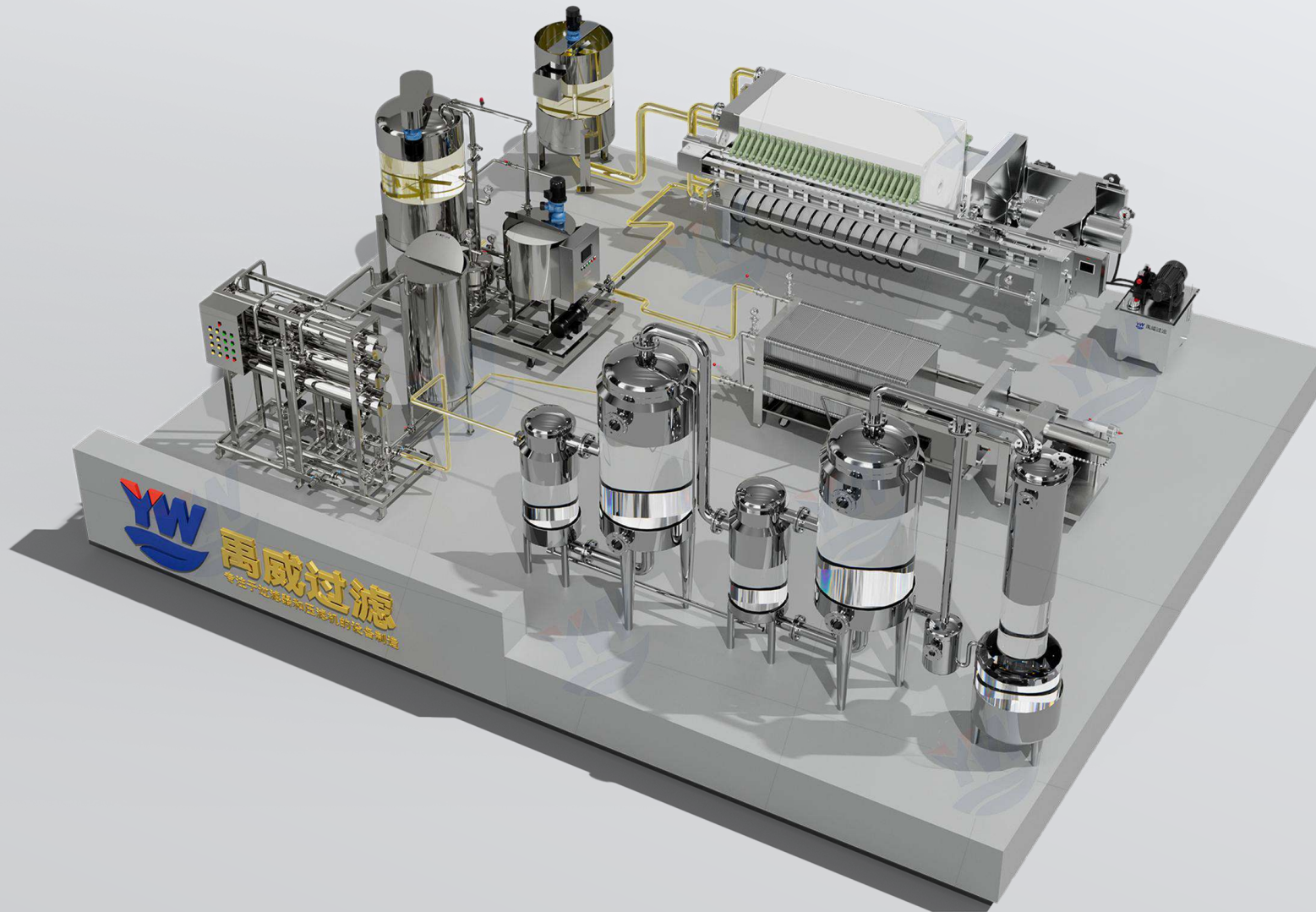


Filtration Process



This process is simply divided into three stages: separating solids and beer wort after beer mashing, purifying beer after beer fermentation, and pre-treatment before bottling.

The filtration equipment needed includes: filter press, disc diatomite filter, plate and frame fine filter, and filter element filter.



The process flow of syrup filtration is divided into five stages: pretreatment, primary filtration, fine filtration, membrane filtration and concentration sterilization. The equipment used includes bag filters, filter presses, diatomite filters, candle filters, plate and frame fine filters, etc. It can be applied to the filtration of sugar syrup, starch syrup, glucose, erythritol, oligosaccharides and other syrups.



The filtration of lithium carbonate is a crucial step in the lithium battery industry. The purification process of lithium carbonate mainly adopts the wet method, with core steps including: pretreatment and dissolution, chemical precipitation for impurity removal, solid-liquid separation, evaporation crystallization and drying. Through the efficient cooperation of the filter press and the candle filter, the lithium carbonate purification process has significantly improved the impurity removal rate and product purity.



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