



**PRES
FILTER
MPS-PF**

MPS-PF PRESS FILTER

MİYAY MPS-PF Press Filters are fully automatic controlled filtration equipment that we produce in accordance with difficult process conditions, in desired dimensions and features according to the separation need. MİYAY Press Filters are designed as modular. Modular systems make it easy to meet customer variable needs. These filters can be used in a wide variety of industries as they are customized to specific process requirements.

ADVANTAGES

- *Maximum cake volume
- *Durability and reliability in harsh conditions
- *Design suitable for demanding process conditions
- *Cost effective - Easy maintenance
- *Expandable volume and filtration area
- *Ease of installation
- *Safe working environment
- *Quick filter cake evacuation
- *Effective automation system
- *High filtration efficiency



PROPERTIES

- *Plate moving system with adjustable speed for different applications and cake features
- *High volume and efficient plate selection
- *Robust construction resistant to heavy working conditions
- *Robust design and extremely wear-resistant plate rails
- *Safety and light curtains
- *Chamber and membrane type plate selection
- *Easy access to Filter Plates
- *Fully safe hydraulic unit
- *Automatic control system (Industry 4.0)
- *Filter cloth washing system (Optional)
- *Drip holder system (Optional)
- *Plate Vibration System (Optional)
- *Cake Transport Conveyor(Optional)
- *Feeding Pumps(Optional)



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Hydraulic System

In order to control the hydraulic system, the hydraulic unit has a manifold block and it is used to complete basic operations, including automatic pressing, automatic pressure protection, automatic pressurization, automatic release, plate forward / backward movement. The safety and reliability of the system has been increased by making the hydraulic unit fully automatically controlled. The hydraulic unit is manufactured in accordance with hydraulic press standards. The hydraulic system provides the best press closing force for difficult process conditions with its special cylinder technology.



Plate Transport System

The plate transport system was specially designed by MİYAY and it was designed to be coupled with the hydraulic unit or with a direct drive motor according to the process conditions. Plate transport chains are completely protected from ambient conditions and taken into the enclosure. Plate shaking is pneumatically controlled and its parameters can be adjusted via the automation system.



Drip Tray

Drops formed during the dewatering of sludge with low solids content are collected by the Drip Tray and drained to a point.

Washing System

Due to the process conditions, some solutions stick to the cloth. The sticking process reveals the need for washing. With the automatic washing system with jet sprinkler positioned on the machine, the parameters are adjusted via the automatic control system and all the plate spaces are washed automatically.



Automation

The Automatic Control System is operated via Siemens S7-1200, using a 10" operator panel. All information and parameters of the system are managed through the operator panel. The system can work as pressure or time adjusted. MCC and PLC panels are made of AISI 304 Stainless steel in accordance with heavy process conditions..



