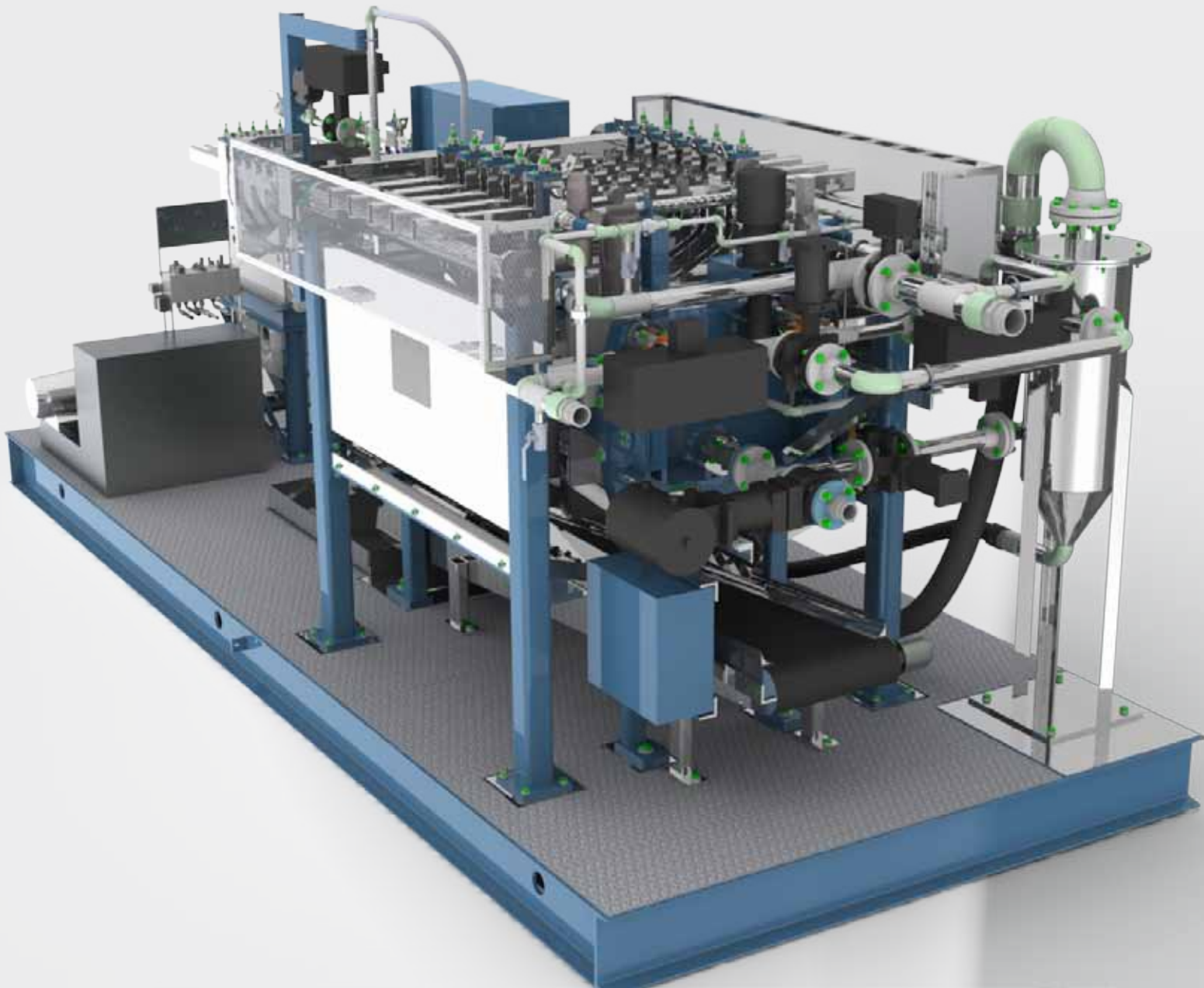


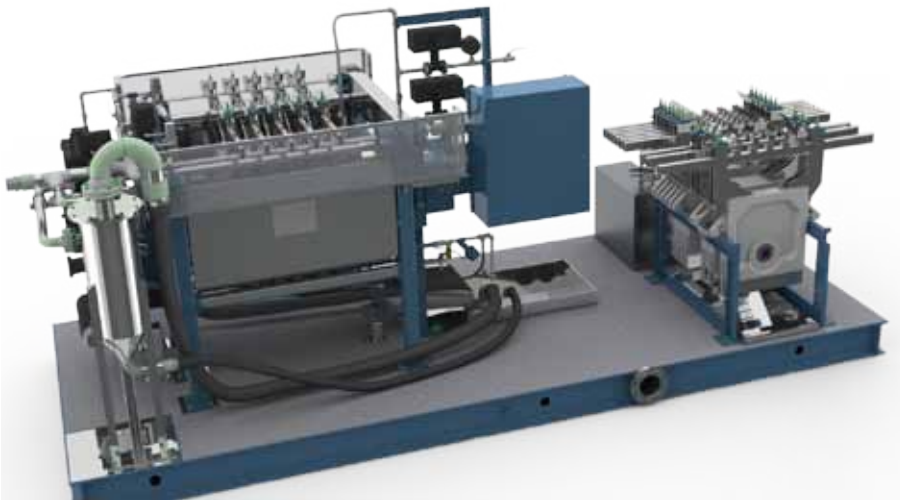
One Source

AFP IV™ pilot filter press

Fully automatic pressure filter for on-site demonstrations



AFP IV™ pilot filter press



The AFP IV™ pilot filter press from FLSmidth is a fully functioning demonstration pressure filter capable of extended pilot runs at the job-site.



The FLSmidth AFP IV™ pilot filter press is skid-mounted and ships completely pre-piped and pre-wired with automated process valves for slurry feed, filtrate, cake-blow and core blow. The unit's batch sequence filtration process is made completely automatic with on-board PLC controls and instrumentation. Fully automatic cake-discharge is accomplished with cloth shaking and flood wash for continuous operation without operator intervention.

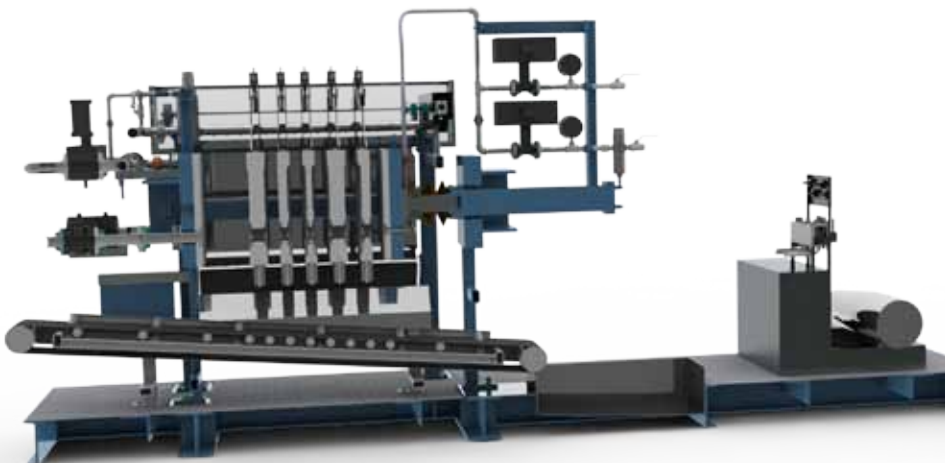
Filtration studies may be performed for process optimization and production equipment sizing by varying slurry feed pressures and other parameters. Many different filter plate configurations are shipped as part of the filter skid package so that they may be evaluated and the very best choice can be selected for the specific application.

Automatic cake discharge

The AFP IV pilot filter press discharges cake automatically each and every cycle without operator intervention.

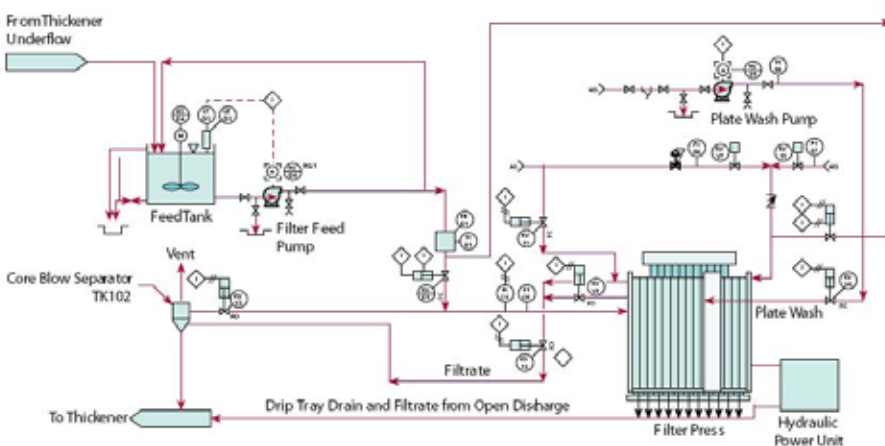
Automatic cake discharge is accomplished with fast opening FLSmidth Hydra-Shift® and cloth shaking followed by cloth cleaning by flood-washing.

The AFP IV automatic pilot filter press includes an on-board conveyor for discharging the filter cake automatically after each filter press cycle.



Typical piping & instrumentation

FLSmidth's automatic pilot filter press is furnished complete with pneumatically actuated process valves and all required instrumentation for fully unattended operation. Instrumentation provides for easy data logging for system optimization and the acquired filtration cycle parameters are utilized for precise scale-up to production units.



Typical P&ID for the AFP IV™ pilot filter press

Filter Connections

Type	Size	Connection Type	Material	Capacity
Water connection for filter press: Flood wash/cloth wash/squeeze water	3 in	Male cam & groove coupling	316SS	30 GPM at 60 psi
Water connection for filter press: Core wash	1 in	Male cam & groove coupling	316SS	30 GPM at 60 psi
Water connection for pump skid: Cooling Water	1 in	Male cam & groove coupling	316SS	1 GPM at 40 psi
Air connection for filter press: Receiver/cake blow/filtrate valves/squeeze pump/purge wash/core blow	2 in	Male cam & groove coupling	316SS	25 SCFM at 100 psi
Electrical connection to power both filter press & pump skid	2 in	Access hole		100A/480V conduit or CGB connector

Contact FLSmidth

Contact your local FLSmidth office today for additional information on rental or purchase of an AFP IV pilot filter press for evaluation of your next filtration project.

FLSmidth Production Filters

FLSmidth Production model AFP IV™ Automatic Pressure Filters are available in sizes to meet the requirements of the largest and most demanding applications.



**Minerals Processing
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