Automatic Filter Press
Smart filter press with advanced control systems for the mining industry
The operation of your business is becoming more and more complex. Every day, you must produce more with less - without compromising the environment.

At FLSmidth, we help you do just that. By increasing your resource efficiency and reducing energy consumption, our suite of digital tools enable you to power your productivity.
Complete connectivity and optimised control system for higher efficiency and reduced maintenance

Achieve maximum process water recovery with our latest and innovative filter design, specifically designed for the mining industry. With an integrated, user-friendly control system, these configurable, safe and smarter filter presses are suitable for even the harshest environments.

**Key benefits**

- Reduced unplanned downtime
- Increased asset availability
- Remote data visibility
- Fully automatic cake discharge
Smart filter press with advanced control systems

Achieve operational and asset health insights 24/7 with digitally enabled AFP

Mineral processes face numerous challenges: Securing the safety of your personnel; reducing your environmental impact; increasing productivity while working with lower grade ores – all while creating quality products that can compete in a difficult landscape. Digital technologies provide you with greater control in all of these areas, enabling you to maximise your returns in a safer, more sustainable manner.

But what does “digitally enabled” mean for your automatic filter press? It means that you have the option to connect your AFP to our digital ecosystem, giving you the combined benefits of our technologies and our experience. We offer a range of services geared towards maintaining asset health and optimising performance – many of which can be carried out remotely, saving both time and money.

Maximum reliability

Our AFP’s advanced control system provides you with a 24/7 view of performance metrics, enabling you to increase machine reliability and availability. And our condition-monitoring feedback and controls allow you to be proactive about scheduling maintenance, thus minimising the risk of unplanned downtime.

- The AFP comes with multiple sensors as standard to monitor and control machine movement, process valve operation and slurry filtration process.
- Optional instruments analyse the hydraulic oil, HPU component performance, filter cloth condition and process performance of the pressure filter.
- With a connected machine, you also have the option of remote support and troubleshooting with FLSmidth 24/7 Global Remote Service Center.

Using the onboard real-time data, trending and historian, our system has the ability to measure, manage and control numerous sustainability indicators. It also comes with predefined reporting techniques, such as dashboards, score cards, energy consumption and more, which can be used to unlock and indicate the value of overall sustainability key performance. And with our SiteConnect mobile app, you don’t even need to be onsite to check on your key asset parameters.

SiteConnect
Want to know what’s going on when you’re not on site?

Stay connected with our mobile SiteConnect app for iOS and Android. View your asset performance and health data, no matter where you are, so that you can make the best decisions for your plant and equipment, promptly and with confidence.

- Improved visibility of plant and equipment performance
- Optimised asset management
- Quicker response to unplanned events
Digitalizing the dewatering circuit

To increase productivity in your mine, we provide a strong portfolio of digital solutions and services that connect, monitor, and optimise performance of your assets. This is the smart way to increase your output, reduce operational costs and reduce energy usage.

CENTRAL CONTROL ROOM
Monitor and control your AFP or entire plant from one central control room - onsite or remotely.

INTERNET AND CLOUD SOLUTIONS
Connect your assets to our secure cloud infrastructure. It seamlessly integrates data and signals, enabling greater visibility to identify operational improvements or potential bottlenecks that may impact productivity. Access your data anytime and anywhere – even on your mobile device.

REMOTE OPERATIONS AND SERVICES
Protect your assets by monitoring or controlling your entire plant or Single AFP mill. The FLSmidth 24/7 Global Remote Service Center makes our expertise and know-how available to maximise your performance.

AUTOMATIC FILTER PRESS
Get easy and direct access to information on your AFP mill health and performance with our intuitive HMIs or on your mobile device.

EQUIPMENT MONITORING
Get easy and direct access to information on your AFP mill health and performance with our intuitive HMIs or on your mobile device.
CONNECTIVITY

Monitor, control and optimise remotely
Connecting your AFP to the internet via our secure infrastructure is the prerequisite for harvesting the benefits of digitalization.

FILTER HEALTH

Maximise the availability of your AFP
Online condition monitoring equipment protects your filter and mitigates risks to ensure optimal reliability.

PERFORMANCE OPTIMISATION

Boost your productivity
The AFP control system is ready for integration with both advanced process control systems and advanced process instrumentation to optimise cake consolidation and dewatering.

ECS/ProductControl
This is our fast and flexible digitally connected control system software that builds on FLSmidth’s extensive expertise to deliver faster commissioning, minimised downtime through online troubleshooting, and the possibility to automate your equipment for better performance and productivity, while reducing operator errors. Functionality and performance are perfectly balanced to give the fastest, most advanced, yet simple-to-use solution. It is so much more than a traditional local control panel.

Filter Sensors
Multiple sensors to monitor and control machine movement, process valve operation the slurry filtration process and more.

Life Tracker
Enables you to analyse filter cloth life and hydraulic oil conditions, plotting trends and helping you make the best decisions for greater productivity.

Augmented Field Engineer
Allows our engineers to remotely assist with your operational issues. A hands-free remote collaboration tool enables you to share vision of your equipment with our field service technicians. Results in faster resolution of incidents, reduces cost of service delivery and increased availability.

Online Condition Monitoring Services
We use secure and advanced cloud analytics, coupled with our local and global experts, to provide you with actionable insights to avoid losses associated with unexpected downtime and breakdowns.

ECS/Uptime Go
Get insights to identify causes of equipment failure and eliminate downtime causes.

Cyber Security
Keep your connected IT updated, safe and unbeatable. Cyber security is an integrated and fundamental capability of our digital portfolio.

24/7 Global Remote Service Center
Reduce unplanned downtime through insightful analytics and 24/7 monitoring by filtration experts.

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<th>Key benefits of a connected filter press</th>
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<td>• On-demand information in the control room or on your mobile</td>
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<td>• Expedite remote support</td>
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<td>• Enable faster decisions and actions</td>
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<td>• Real-time insights available to top management</td>
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<td>• Increase uptime and availability by decreasing unplanned breakdowns</td>
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