



# FILTRATION EXCELLENCE EVEN UNDER ROUGHEST CONDITIONS

**ANDRITZ** overhead and sidebar filter presses  
for mining and minerals

**ANDRITZ**

Nowadays, the increasing volume of tailings and concentrates generated by activities in the mining and minerals sector creates a variety of environmental challenges, such as slumps, landslides, dust generation, or leaching. In addition, water is a valuable commodity that should be preserved. It is, therefore, essential to find effective solutions to minimize these impacts, while also controlling costs.

Over decades, ANDRITZ has designed overhead and sidebar filter presses that meet the most stringent requirements of mining and minerals operations around the globe. ANDRITZ filter presses are characterized by the robust design required for this purpose. All of the components installed are suitable for heavy duty, so that even high-wear applications can be handled without any problems. The high and optimized filtration rate also leads to low water consumption, greater water recovery, and thus to a more cost-effective and environmentally friendly press.



# An unmatched filter press portfolio for the mining and minerals industry

ANDRITZ offers an extensive range of filter presses for the mining and minerals industry. Depending on customer needs, it can vary from standard to heavy-duty design, from chamber to membrane type, from manual to fully automatic mode, and from overhead to sidebar systems.

The key to success with ANDRITZ filter presses are features such as maximum flexibility, low power consumption, easy operation, and minimal training requirements. With its in-depth experience, combined with different degrees of automation, even such regulations as ATEX or GMP can be met with ANDRITZ filter press technology. ANDRITZ's objective is clearly to offer equipment that has been optimized in terms of size and robustness to facilitate production and maintenance operations, reduce the equipment footprint, and simplify handling of spare parts and machine components.

## **FAST CLOTH WASHER**

ANDRITZ filter presses for mining and minerals are supplied with a double cloth washing system with up to 100 bar pressure to ensure optimized throughput and performance and maximize the life time of the filter plate and cloth.

## **FAST DISCHARGE**

For highest performance, especially in tailings treatment and mining applications, an additional plate package divider guarantees the highest possible throughput and maximum discharge speed. On top of this standard system, both sidebar and overhead filter presses can be supplied with a plate shifter module as an option to allow the cake discharge speed to be adjusted very easily and in line with production requirements.

## **APPLICATIONS**

- Tailings
- Bauxite and alumina
- Calcium carbonate
- Clay
- Coal
- Copper and gold ore
- Iron ore
- Phosphate
- Potash
- Salt
- Lithium and other battery minerals
- Sand and gravel
- Cathode active materials

## **YOUR ADDED VALUE WHEN WORKING WITH ANDRITZ**

- Efficiency even under roughest conditions
- Excellent durability due to simple but sturdy design
- Fully controlled and supervised filtration processes thanks to a high degree of automation
- Enhanced operating safety
- Maintenance friendliness
- Flexibility thanks to easily upgradeable solutions in terms of filtration volume and filtration area
- Maximized operating availability and reliability
- Customer-oriented process solutions through modular designs

# How to select the right filter press for your needs?

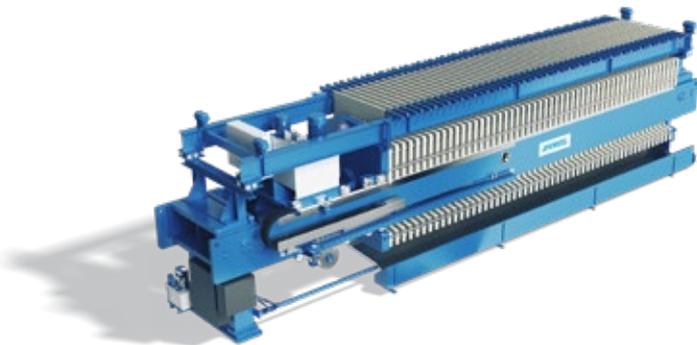
Benefit from the broadest and unmatched filter press portfolio of both sidebar and overhead filter presses – whatever the need is.

Considering various criteria such as the application, duty, flow rate or any other specific requirements, ANDRITZ separation specialists will recommend the right solution out of a comprehensive range of filter presses specially designed for the mining and minerals industry.



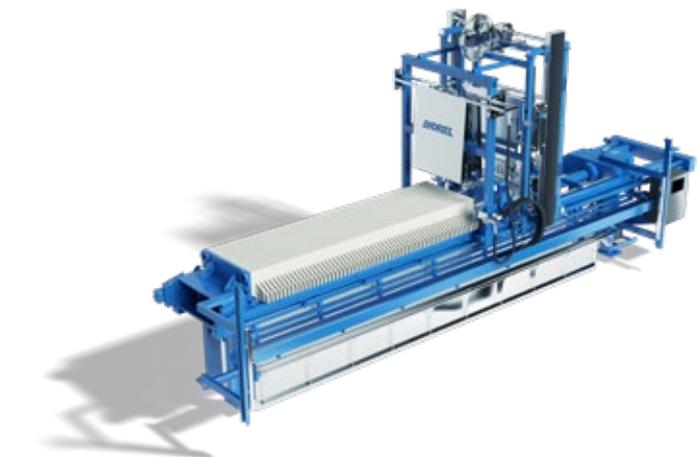
## **ANDRITZ FILTER PRESS MiningMaster ME4**

The ANDRITZ overhead filter press MiningMaster ME4 is designed for heavy-duty applications and is engineered for maximum productivity and minimal downtime. With its modular design, it allows faster cake discharge while reducing oil and energy consumption.



## **ANDRITZ FILTER PRESS ME**

The ANDRITZ sidebar filter press ME is designed for heavy-duty applications and is characterized by its capacity for maximum throughput thanks to its fast discharge system. It is considered the best fit for concentrate applications as well as certain tailings projects.



## **ANDRITZ FILTER PRESS SE**

The ANDRITZ sidebar filter press SE is designed for standard duty applications with a fast filter cake discharge system. It fits particularly well for sand and gravel, kaolin, calcium carbonate, and clay applications and can also handle smaller throughputs.

	<b>ANDRITZ MiningMaster ME4</b>	<b>ANDRITZ filter press ME</b>	<b>ANDRITZ filter press SE</b>
<b>Duty</b>	Heavy	Heavy	Standard
<b>Technology</b>	Overhead	Sidebar	Sidebar
<b>Main product handled</b>	Tailings	Concentrate and tailings	Various
<b>Capacity*</b>	From 100 to 170 kg/m <sup>2</sup> h	Up to 350 kg/m <sup>2</sup> h	From 40 to 100 kg/m <sup>2</sup> h
<b>Filtration area</b>	From 1,400 to 2,520 m <sup>2</sup>	From 200 to 880 m <sup>2</sup>	From 300 to 1,200 m <sup>2</sup>

\* Depending on the application



ANDRITZ filter presses are designed to meet your requirements in several mining and mineral applications

# High capacity and fast discharge with overhead filter presses MiningMaster

The MiningMaster ME4, available in 2000x2000 and 2500x2600, delivers more productivity, greater flexibility, and enhanced safety - all with a maintenance-friendly design that minimizes downtime and maximizes efficiency.

## HIGHER PRODUCTIVITY WITH UP TO 240 CHAMBERS WHILE BEING ENVIRONMENTALLY FRIENDLY

Thanks to modular design, capacity can be increased with additional filter elements. Also, while allowing for more productivity, the MiningMaster ME4 has been optimized and its weight minimized to be more environmentally friendly.

## FLEXIBILITY

Thanks to the functionality of the dividing plate in the linked plate package, it is possible to divide the plate package up to three parts, reducing the total length of the filter press. Thanks to modular design, capacity can be increased with additional filter elements, thus absorbing more flow. For special applications, a new plate shifter for optimized and proper cake discharge is available.

## EFFICIENT DOUBLE CLOTH WASHING

The MiningMaster ME4 filter press is equipped with a high-pressure cloth washing device (up to 80 bar), for optimal regeneration of the filter cloth and longer lifetime, keeping your filter press on constant performance.

## FASTER CLOTH CHANGE WITH FEED SHOE

To avoid complicate filter plate and cloth change, the feed shoe design integrated in the MiningMaster ME4 is supporting an easy and fast change of filter cloths.

## FEATURES

- Speed-adjustable plate transport for different applications and cake properties
- Efficient double cloth washing device
- Long effective plate package length – highest volumes available
- Efficient double cloth washing device
- Possible volume upgrades
- Choice of chamber or membrane filter press systems
- Free access to the plate package
- Special pull design for best distribution of forces (four cylinders)
- Fast filter cake discharge
- Easy maintenance such as fast filter cloth change
- Optional drip trays

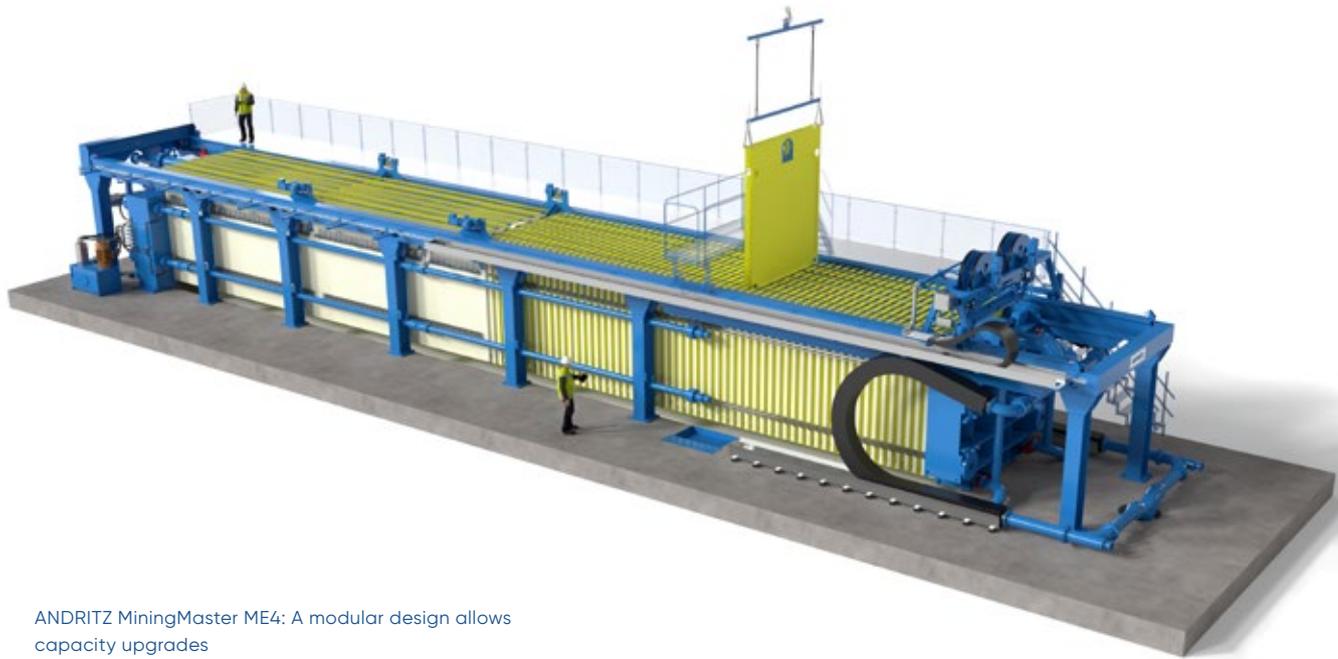
## BEST FIT FOR

- Tailings
- Sand and gravel
- Iron ore, copper, aluminium processing

## HIGHER PRODUCTIVITY

WITH UP TO  
240 CHAMBERS AND  
A TOTAL VOLUME OF  
60,000 LITERS  
PER MACHINE





ANDRITZ MiningMaster ME4: A modular design allows capacity upgrades

**“The MiningMaster ME4 represents a major leap forward in filtration technology. By combining mechanical innovation with intelligent automation, we are helping our customers achieving new benchmarks of efficiency, safety, and environmental responsibility.”**

**MARIO GERARDS**

Industry Director Minerals and Mining at ANDRITZ

#### YOUR BENEFITS

- Simplified maintenance, reducing efforts, downtime, and operational costs
- Enhanced safety for a safer workplace
- Unmatched productivity thanks to fast cake discharge system and large filtration area
- Flexible design for evolving needs
- Intelligent operation optimizing performances and reducing energy consumption
- Greener footprint with reduced oil consumption and improved energy efficiency

Advanced automation up to intelligent filter press



# Fastest discharge and processing with sidebar filter presses ME

The ME filter press range is the ideal equipment when fast processing of tailings or concentrate products is required.

The ANDRITZ sidebar filter press features chained plates for the fastest filter cake discharge in the mining and minerals industry. The special design enables highest throughputs without compromising on safety.

## **SHORTEST CYCLE TIME AND HIGHEST THROUGHPUT RATES THANKS TO OPTIMIZED FILTER PRESS OPENING TECHNOLOGY**

The outstanding filter press opening technology was developed by ANDRITZ and is based on our extensive experience with filter presses used in different applications. A larger number of cycles per hour provide a direct increase in capacity, which is often the key factor in mining projects.

## **HIGH-PRESSURE CLOTH WASHING AND SHAKING SYSTEM, ESPECIALLY FOR STICKY FILTER CAKE APPLICATIONS**

Optimized filtration efficiency is only achieved with a clean filter cloth. In addition to well-known rinsing systems, an optional high-pressure cloth washing unit can be provided that is specially designed for tailings applications with a high clay content.

## **COST-EFFICIENT DESIGN FOR TAILINGS PROCESSING**

Reducing the design to the bare essentials is an important task for tailings applications, where the focus lies on saving water rather than producing sellable products.

Available for almost all our filter presses but more specifically for the ME range, the ANDRITZ intelligent filter press features several sensors for controlling any deviations in the plate package due to soiling in the sealing area and the pressure rise during the filtration process.

**Online safety monitoring of moveable parts:** All deviations are analysed and the system provides a recommendation to conduct an automatic cloth washing cycle based on filtration process pressure or mechanical deviations.

### **Online monitoring of the plate package:**

- Monitoring of filter cloth performance
- Keep capacity/throughput at highest level
- Cloth washing on real demand

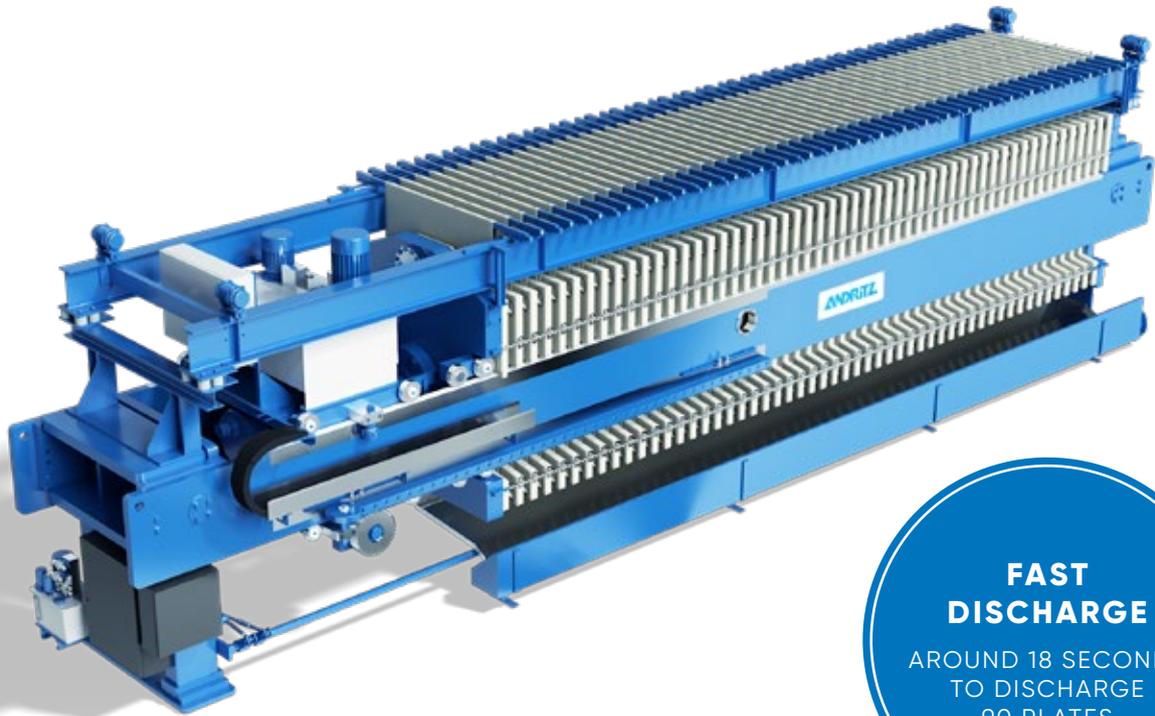
## **FEATURES**

- Fully automatic set-up
- Short cycle times that allow up to 120 cycles a day
- Chained plates for fastest filter cake discharge in the mining industry
- Frame discharge system with optional shaking device for sticky filter cake
- Automatic filter cloth washing device available as an option
- Safety guards
- Filter cloth rinsing
- Shifting/pressure plate moving

## **BEST FIT FOR**

- Mining concentrates (iron, copper, lead, zinc, etc.)
- Tailings





ANDRITZ sidebar filter press ME 2000

**FAST  
DISCHARGE**  
AROUND 18 SECONDS  
TO DISCHARGE  
90 PLATES

**“The ME fast discharge design, which has been well proven for concentrates, has now also been perfectly designed for various tailings applications requiring high-pressure filter cloth cleaning in combination with a reliable shaking device for efficient cake discharge with highest DS in the filter cake.”**

**MICHAEL PANHOLZER**

ANDRITZ Global Product Manager for filter presses

#### YOUR BENEFITS

- Good profitability and availability thanks to highest throughput
- High pressure for better results in dry substance
- Washing device and high washing pressure for clean and efficient cloth operation and longer life time of plates and cloths
- Fast filter cloth change
- Fastest discharge
- Shortest possible cycle time
- Chained plates to open simultaneously
- Cloth shaking system for sticky filter cake
- Rinsing system for fast cleaning
- Compact design and thus, smaller footprint in order to save space and civil engineering effort

Advanced automation up to intelligent filter press



# Performance and versatility with sidebar filter presses SE

The ANDRITZ sidebar filter press is designed for standard and medium-duty applications. It features a well-proven design with all the important modules, such as washing device, drip plates, and additional options depending on your requirements.

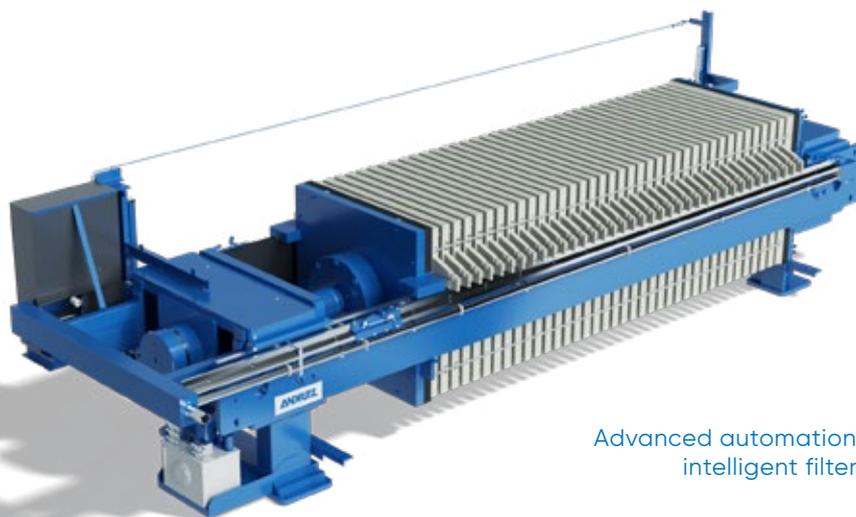
The sidebar filter presses are very flexible in terms of their design. Depending on the specific customer needs and process requirements, our pre-configured solutions can be optimized in terms of modules and additional features. The filter plate sizes available, ranging from 800 mm to 2,000 mm, allow us to find the most fitting solution. In combination with the huge number of optional items available, the optimum dewatering solution can be selected for any specific task.

## BEST FIT FOR

- Coal and tailings
- Limestone
- Chalk
- Sand and gravel
- Kaolin
- Calcium carbonate
- FGD
- Clay applications

## YOUR BENEFITS

- Easily upgradeable in terms of volume and filtration area
- Various cake discharge systems available (tiltable frame, scraper)
- Working opening between plates
- Fully automatic set-up
- Frame discharge system with optional shaking device for sticky filter cake
- Automatic filter cloth washing device available as an option
- Special design for flexible adjustment of cake discharge device (shortening piston stroke)
- Safety guards and light curtains



Advanced automation up to intelligent filter press



ANDRITZ sidebar filter press SE 800 V



# Your full-service provider

With ANDRITZ, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Dedert, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, LENSER Filtration, Netzsch Filtration, REINEVELD centrifuges, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer and Vandenbroek. Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your

equipment, ANDRITZ is your true full-service provider. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase predictability in operations while raising your overall production efficiency. Wherever you operate, our network of 550 service specialists and global service centers ensures we'll always be there to support you for many life cycles to come. Let's sit down and see how we could take your operations to the next level.



LOCAL SUPPORT



REPAIRS & UPGRADES



SECOND-HAND & RENTALS



TRAINING



OEM SPARE PARTS



SERVICE AGREEMENTS



PROCESS OPTIMIZATION



LAB AND ON-SITE TESTS

## Intelligence for machine and process control

### METRIS addIQ CONTROL SYSTEMS

With Metris addIQ, you have a well-proven, intelligent control solution for industrial processes and machines. Our solid/liquid separation specialists use their in-depth expertise to provide scalable solutions that are individually tailored to regional and application requirements. Whether you're automating new equipment or upgrading to extend the lifecycle of existing systems, we find the ideal solution for you.

**Metris**  
ANDRITZ Digital Solutions

ANDRITZ offers a broad and constantly growing range of innovative products and services in the industrial digitalization sector under the brand name Metris, helping customers to enhance plant efficiency and profitability, optimize the use of resources, achieve constant and highest product quality, reduce production downtime, and maximize user-friendliness.





## A WORLD OF SEPARATION SOLUTIONS

ANDRITZ provides mechanical and thermal solid/liquid separation technologies, complemented by comprehensive services, automation, and digitalization solutions for the chemicals, environment, food and beverage, as well as mining and minerals industries. Our customized, innovative solutions focus on minimizing resource consumption and maximizing process efficiency, thus making a substantial contribution towards sustainable environmental protection. With over 150 years of experience and more than 2,700 separation specialists around the globe, we are a driving force in the evolution of separation solutions – enabling industries to meet tomorrow's demands responsibly. **ANDRITZ. FOR GROWTH THAT MATTERS.**

### AFRICA

ANDRITZ Delkor (Pty) Ltd.  
p: +27 11 012 7300  
separation.za@andritz.com

### EUROPE

ANDRITZ Separation GmbH  
p: +49 2203 5752 0  
separation.de@andritz.com

### ASIA

ANDRITZ Singapore Pte. Ltd.  
p: +65 6512 1800  
separation.sg@andritz.com

### NORTH AMERICA

ANDRITZ Separation Inc.  
p: +1 817 465 5611  
separation.us@andritz.com

### AUSTRALIA

ANDRITZ Pty. Ltd.  
p: +61 3 8773 4888  
separation.au@andritz.com

### SOUTH AMERICA

ANDRITZ Separation Ltda.  
p: +55 47 3387 9100  
separation.bra@andritz.com

### CHINA

ANDRITZ (China) Ltd.  
p: +86 757 8258 6802  
separation.cn@andritz.com

[ANDRITZ.COM/SEPARATION](https://www.andritz.com/separation)

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