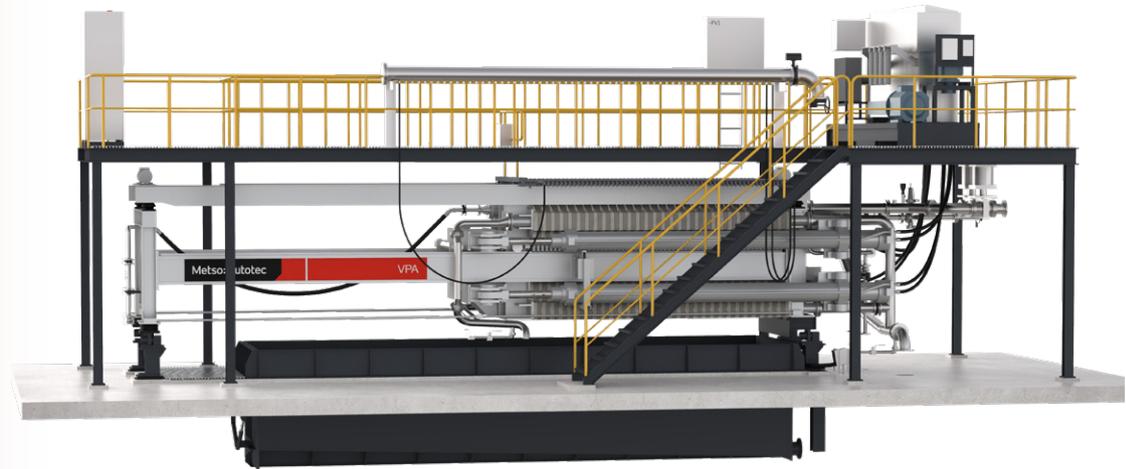
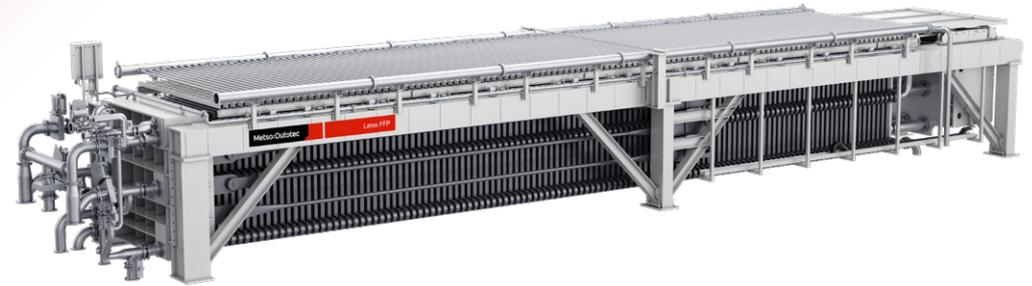


# Metso:Outotec

Pressure Filtration

## Larox<sup>®</sup> FFP & VPA Filters

Comprehensive and sustainable dewatering solution supporting and improving process plant efficiencies



# Leading sustainable dewatering innovations

With nearly a century of experience in supplying filtration equipment and services, Metso Outotec has the most comprehensive and sustainable filtration portfolio on the market. We produce smart and sustainable dewatering solutions for various mining applications in concentrates, tailings and bulk filtration. Metso Outotec is always evolving to solve the toughest challenges that the customers may face.



## Strong legacy

Metso Outotec has nearly a century of experience in supplying filtration equipment and services



## Unrivalled diversity

The most comprehensive and sustainable portfolio on the market coupled with a comprehensive Services offering



## Smart dewatering

Smart and advanced automation features from control systems to automatic process adjustments for optimized performance and remote-control options



## Leading process know-how

Metso Outotec has a unique Dewatering Technology Center (DTC) in Lappeenranta, Finland where R&D and testing is done with close cooperation on research with universities





# Planet Positive

Sustainability is one of Metso Outotec's key strategic priorities, we are committed to limiting global warming to 1.5 °C. The filtration solutions are a part of the recently launched Planet Positive offering, since they are designed to improve water-efficiency, lower emissions and amount of energy consumed.

Planet Positive is our all-encompassing approach to sustainability, which covers the environmental, social and financial aspects. Our Planet Positive offering has a central role in our sustainability agenda and 1.5 °C journey as it represents the key means of improving the resource efficiency of our customers' operations.

Our long-term goal is to provide customers with products and services that are even more sustainable. We will continuously develop our filter offering, with a focus on energy efficiency, reducing emissions, water efficiency, circular solutions and safety.

# Pressure filtration Larox<sup>®</sup> FFP and VPA filter



## Reliable and optimized dewatering solutions

### Automation operation

The equipment has advanced control systems with automatic process adjustments that result in consistent performance. This enables the option for remote control access, leading to improved support for your operation.

### High availability

With maintainability and productivity in mind, the equipment is designed for the highest level of reliability and automatic process adjustment capability.

### High capacity

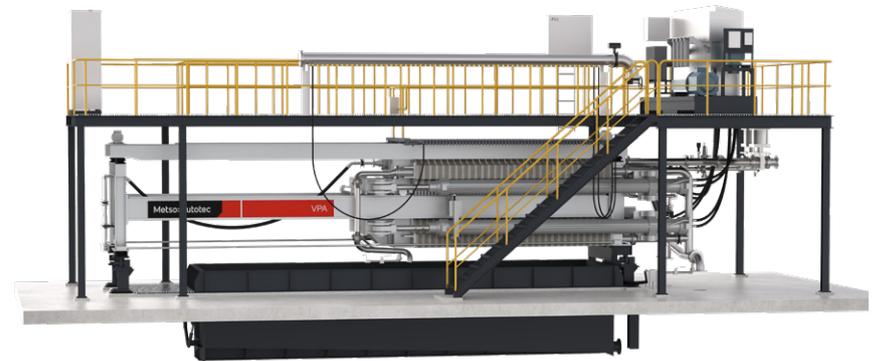
The latest technology filter plates are exclusively designed for mining applications and high throughput.

### Low operation cost

Utilizing the benefits of Metso Outotec pressure filters lead to a reduced total cost of operation.

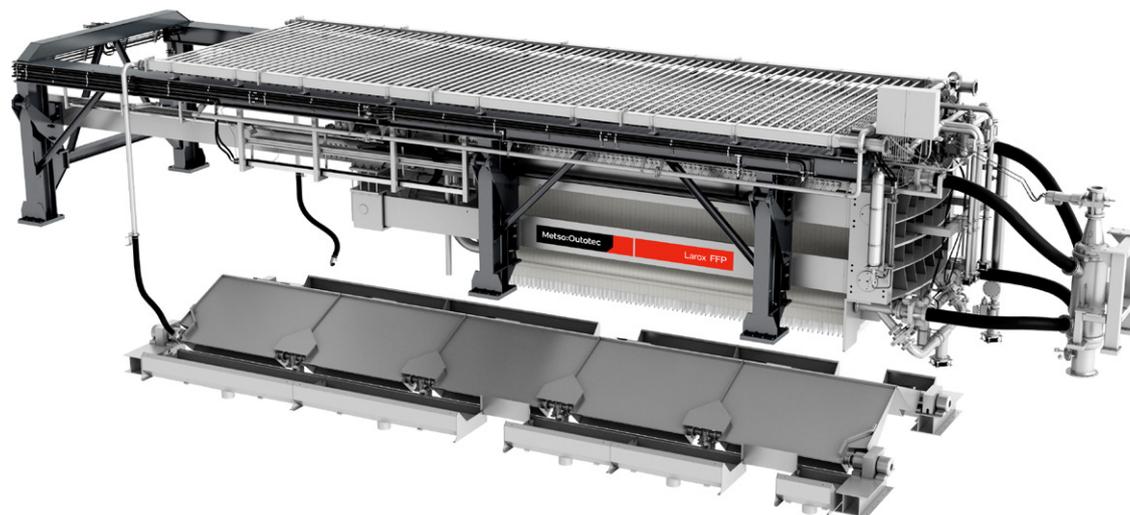
### Environmentally friendly

Metso Outotec pressure filters produce dry filtered tailings which are the most viable and long-term solution for tailings to reduce tailings volumes into dry filter cakes.



# Pressure filtration Larox<sup>®</sup> FFP

Reliable and optimized Larox FFP filter provides high volume processing for concentrates, tailings and bulk applications.

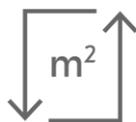


Model	Plate size (w/h) (mm)	Plate pack design	Filtration area per chamber (m <sup>2</sup> )	Chamber depth (mm)	Chambers	Total filtration area (m <sup>2</sup> )	Plate pack volume (m <sup>3</sup> )	Max. operating pressure (bar)
FFP2512	2.50 x 2.50	Combi plate pack	9.6	40, 50, 60	30 - 62	288 - 595	5.4 - 15.4	12
FFP3512	2.50 x 3.50	Mixed plate pack	13.4	45	62 - 98	830 - 1314	16.7 - 26.5	12
FFP3716	2.70 x 3.70	Mixed plate pack	16.5	50	120	1980	44	16

## Key features:



30 - 120 chambers installed



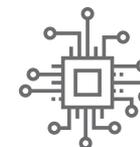
288 - 1980 m<sup>2</sup> filtration area



Up to 16 bars operating pressure



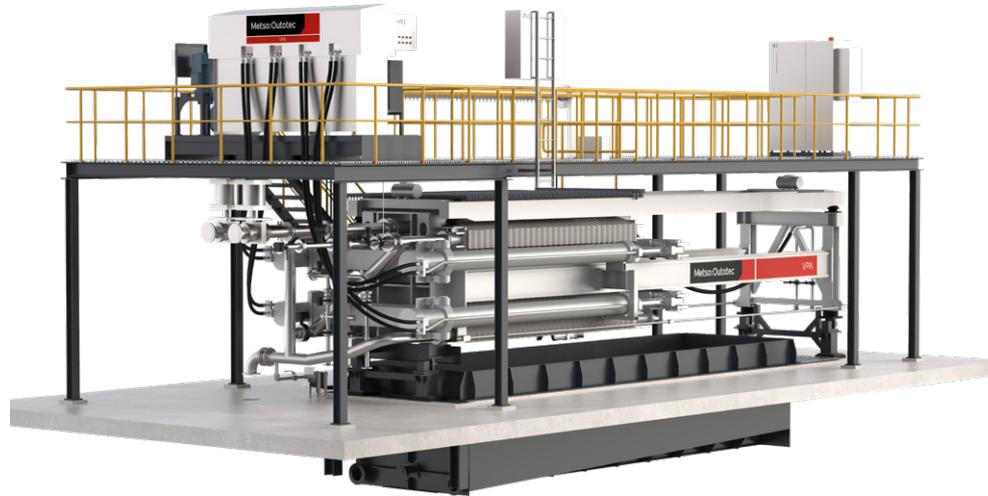
Variety of chamber depth



Advanced control system

## Pressure filtration VPA filter

Metso Outotec VPA filter is a reliable and optimized dewatering solution with high volume processing for difficult tailings applications and concentrate filtration.

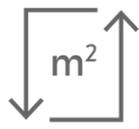


Model	Plate size (w/h) (mm)	Plate pack design	Filtration area per chamber (m <sup>2</sup> )	Chamber depth (mm)	Chambers	Total filtration area (m <sup>2</sup> )	Plate pack per volume (m <sup>3</sup> )	Max. operating pressure (bar)
VPA 1510	2.2 x 2.0	Mixed plate pack	3.4	30, 40	20 - 60	68 - 204	1.1 - 3.7	10
VPA 2010	2.8 x 3.3	Mixed plate pack	7.8	40, 50	32 - 66	250 - 515	5.4 - 12.7	10

### Key features:



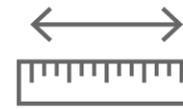
Up to 66  
chambers installed



Up to 515 m<sup>2</sup>  
filtration area



Up to 10 bars  
operating pressure



30, 40 and 50 mm  
chamber depth

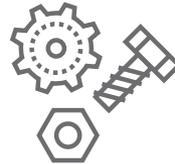


Few moving parts

# Get the most out of your filters Metso Outotec Services

At Metso Outotec we strive to deliver the best possible quality, availability, performance, and financial solutions for our beneficiation and dewatering customers. We are dedicated to the long-term journey throughout the equipment life cycle, creating win-win relationships for all stakeholders.

By combining the quality products and expertise, we possess the unique ability to partner with our end-users, provide services, reliability, innovation and results safely with sustainability at the core of all we do.



## Spare and wear parts

Rely on OEM experts because not all parts are created equal. Spare and wear parts built to perform.

## Maintenance, shutdowns and repairs

Trust those who know the equipment best to ensure that your production goals are met.

## Modernizations, upgrades and retrofits

Whether you aim to restore equipment to its original condition or upgrade it for increase performance, explore your options.

## Process optimization & connected services

By understanding your business needs, we improve performance using technology and expertise.

## Life Cycle Services

Tailored service packages delivering performance outcomes. Your goals are our goals!

