

# Metso

## Tube press filter aftermarket portfolio

Your #1 service partner from pit to port



eBook

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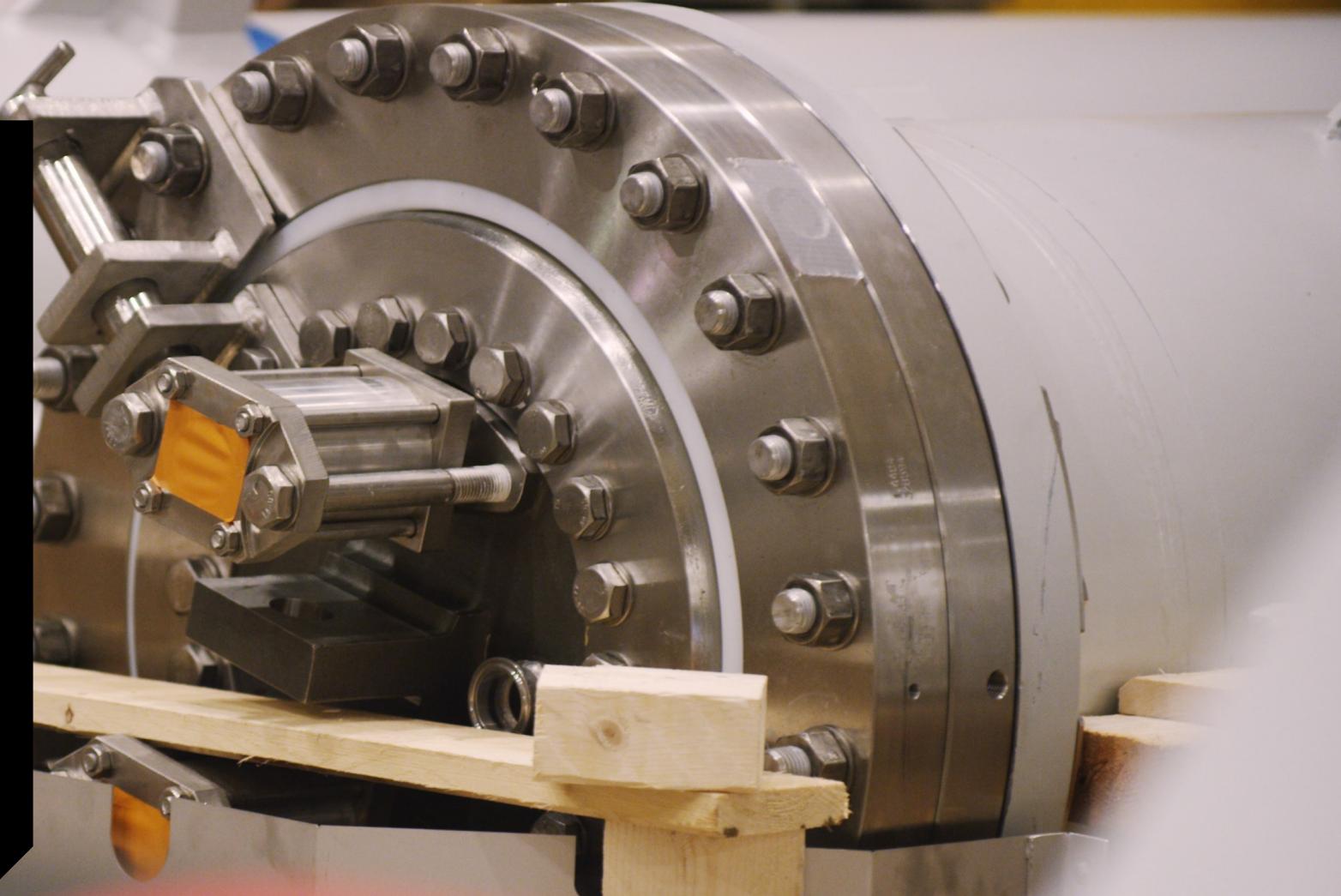
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**Metso**



The core of filtration

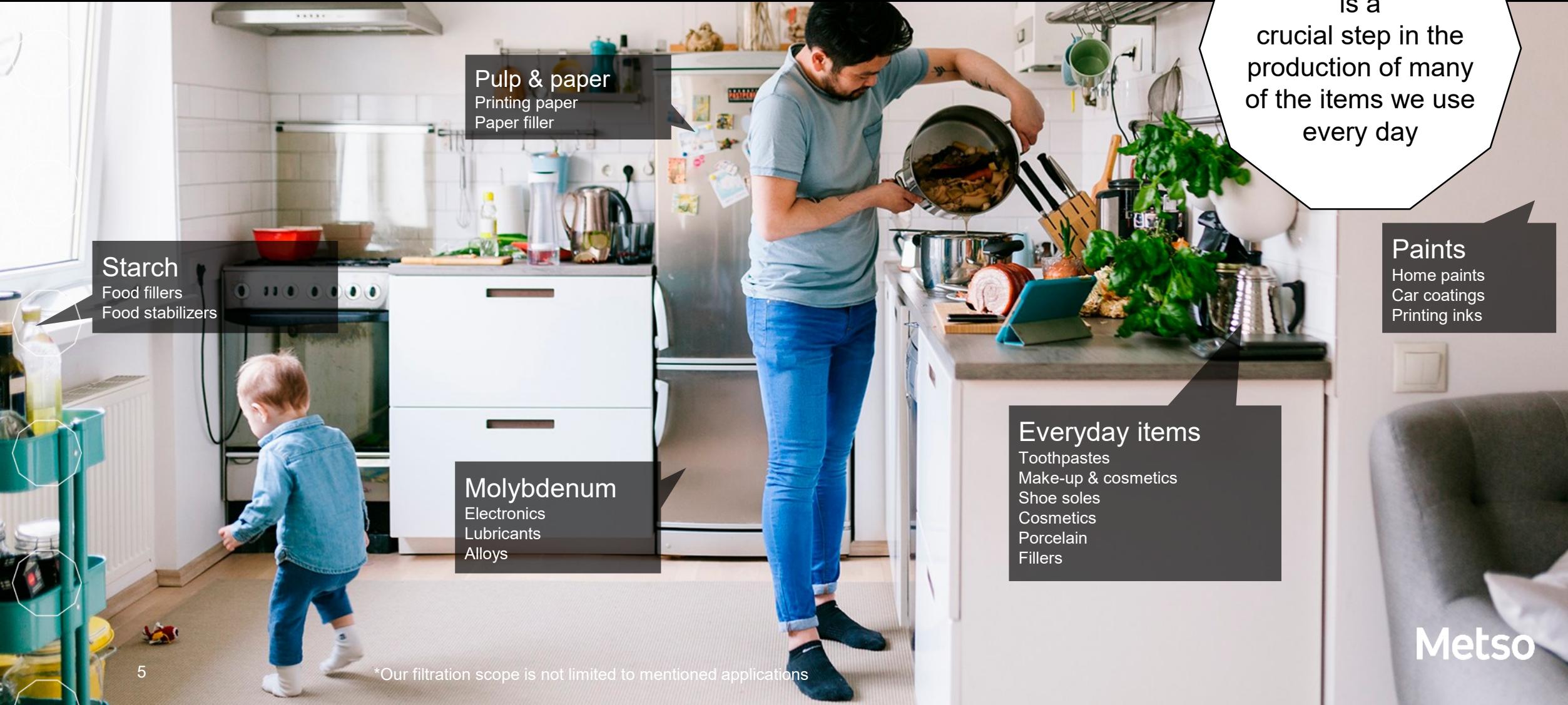
Filtration powerhouse

Metso

# Our purpose

Enabling sustainable modern life

# Vital for everyday life



Metso's filtration service team's goals is to help you thrive.  
Every day. No matter the conditions.

For we are

**Your #1 service partner from pit to port.**

Our filtration experts ensure safety and quality is built into everything we do –  
from R&D and engineering to parts and services.

We are committed to the long-term journey throughout the filtration equipment life cycle.  
With our diverse and comprehensive aftermarket portfolio, we strengthen your operations through:



Optimizing filtration  
performance



Increasing  
availability



Decreasing  
operational costs



Ensuring OEM  
quality



Reducing  
environmental impacts

# Industry-leading expertise with a global network

## KEY FACTS

17,000+  
Employees

100+  
Nationalities

~50  
Countries we operate in

2,1%  
Of sales goes to R&D

## SERVICES FACTS

~3,700  
Service experts

2

Filtration technology centers

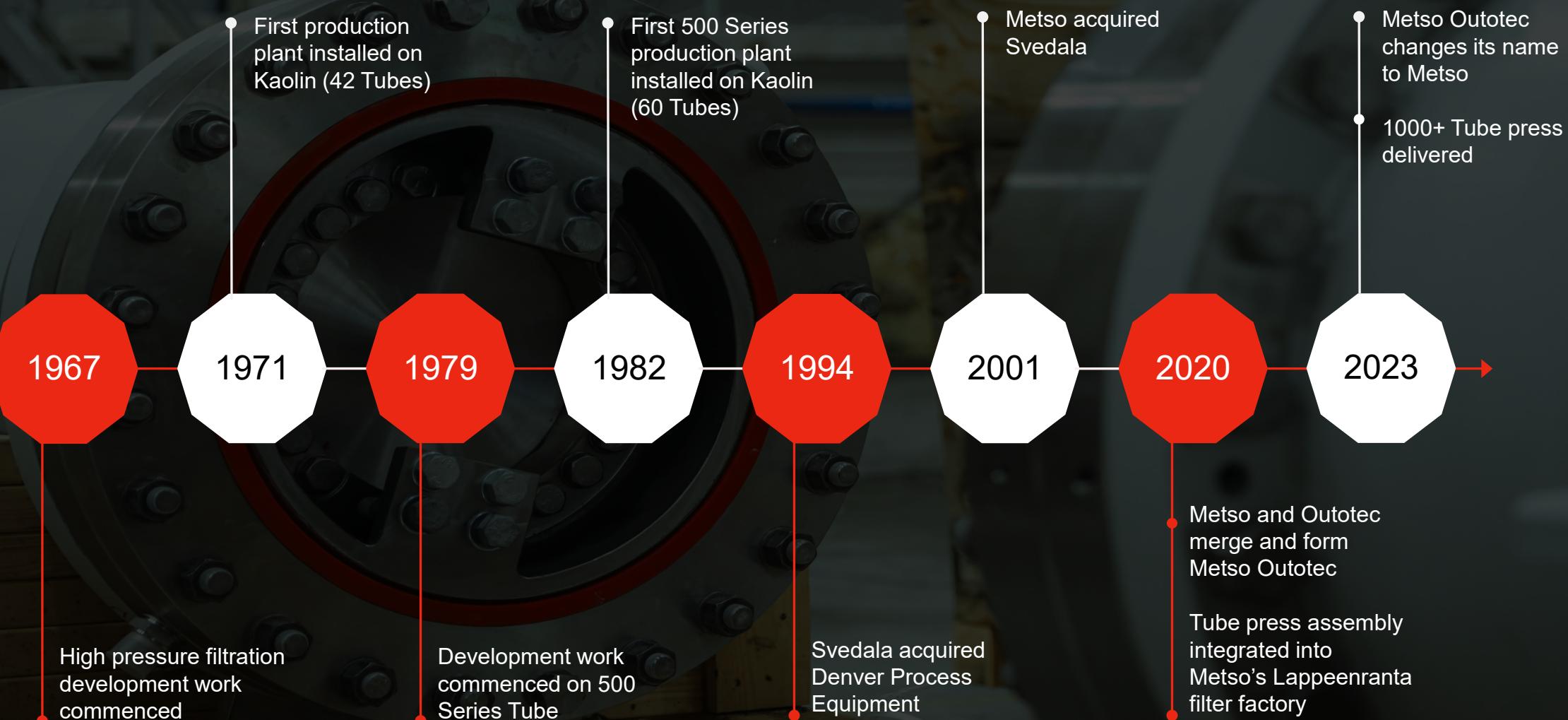
~140  
Service locations

3

Performance Centers

**Metso**

# One must invest 10,000 hours to master a skill - they say. We have been mastering ours since 1967:



# The pathway to a sustainable future

Helping our customers achieve their climate and environmental targets

Metso  
**PLUS**

Demonstrably better than  
the industry benchmark

Metso Plus criteria\*

- Energy efficiency
- Carbon efficiency
- Optimized for using renewable energy
- Water efficiency
- Less pollution
- Reduced embedded carbon
- Electrified solutions





# Life Cycle Services

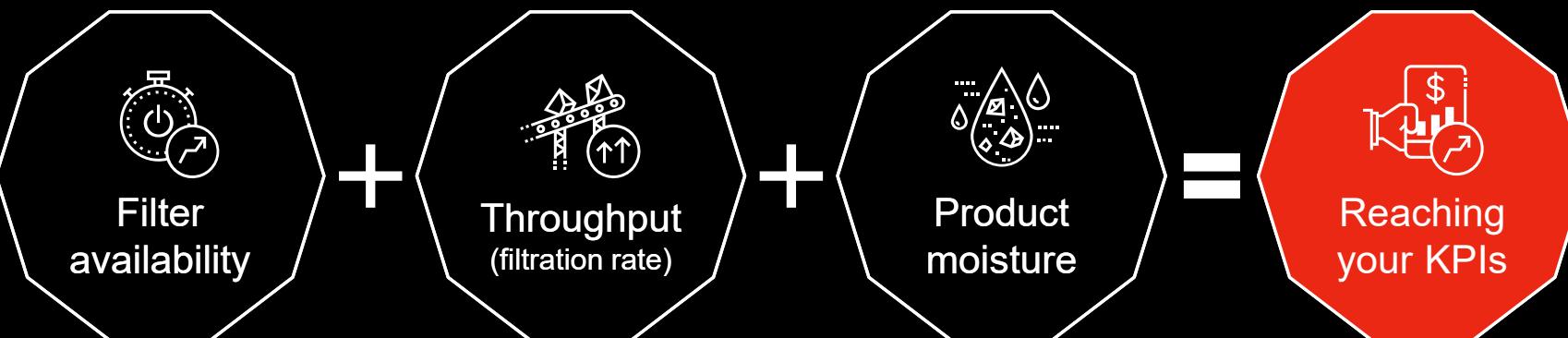
Performance-driven solutions

# Reaching your KPIs together

Metso Tube Press enables great performance and availability levels, ensuring you meet your financial and HSE\* targets. Our dedicated service team is here to protect what you already have and to build on top of that. We know that reaching your KPIs is extremely important – that is why we treat them as if they were ours.

**You set the targets. We provide the solutions.**

Even a small improvement in the filtration process, whether moisture level or filter availability, can significantly impact your business performance and strategic value to you and your stakeholders. **And we know how to drive those positive changes!**



**Metso**

# Life Cycle Services for filtration

## Performance roadmap

### 1 Inspections & technical support

#### Improved availability

##### Recommended parts

- Supply and inventory availability

##### Performance Assessment

- Improvement suggestions

##### Overhauls

- Advisory & planning

##### Training

- Operation & maintenance

### 2 Maintenance & reliability

#### Guaranteed availability

##### Preventive maintenance & parts

- Optimized system maintenance
- Advisory/execution (optional)
- High reliability

### 3 Optimized performance

#### Guaranteed production & moisture

##### Optimization advisory

- Right filter parameters and filter media for different feed scenarios

##### Thickener improvements

- Optimizer & modernizations
- Better filter feed quality & stability

Metso-owned inventory (MOI) and supply solutions

New equipment (leasing, boot) | Modernizations | Refurbishments

Semi-permanent or full maintenance

Full operation & maintenance



# LCS levels

	Level 1	Level 2	Level 3
<b>Line card for Tube Press series SC 500 filters</b>	<b>INSPECTIONS &amp; TECHNICAL SUPPORT</b> Improved availability 1-year contract	<b>MAINTENANCE AND RELIABILITY</b> Guaranteed availability >90% 2-year contract	<b>OPTIMIZED PERFORMANCE</b> Guaranteed production & moisture 3-year contract
<b>Spare and wear parts</b>			
Parts inventory management and optimization	●	●	●
Operational and capital spare parts	●	●	●
Maintenance specific spare parts		●	●
<b>Assessments and monitoring</b>			
Equipment inspections	●	●	●
Performance assessment		●	●
<b>Maintenance and reliability</b>			
Technical support	●	●	●
Customer training on maintenance	●	●	●
Maintenance advisory	●	●	●
Maintenance execution		●	●
Component recycling		●	●
<b>Operation and process optimization</b>			
Customer training on operation	●	●	●
Operations and process advisory	●	●	●
Thickener Optimizer – APC			●
<b>Financing options</b>			
Upgrades and CAPEX deferred payments	●	●	●
Metso owned inventory (MOI)	●	●	●
<b>Payment options</b>			
Fixed monthly billing	●	●	●
Performance/KPI based billing		●	●
Cost per ton billing		●	●

# Metso owned inventory (MOI)

Every company needs timely access to the right parts, but managing costs, availability, and inventory levels can be challenging. Metso offers inventory solutions to optimize this balance, enhancing performance through a tailored mix of services.

## ➤ Package 1

### Basic consignment

- Metso OEM quality parts, ready and reserved for you when you need them
- Simplified purchasing with fixed pricing
- Gain peace of mind with reduced inventory costs

## ➤ Package 3

### Inventory and capital spares

- Basic consignment plus payment plan for major spares
- Reduce risks – defray large upfront capital costs by instalment payments

## ➤ Package 2

### Inventory and inspections

- Basic consignment plus equipment inspections
- Metso expert advice and recommendations on maintenance and needed parts

## ➤ Package 4

### Inventory and subscription

- An economical and flexible solution to a complex issue
- Secure parts availability for a low set subscription fee
- Parts can be designated to a single customer or pooled amongst several customers

# Payment plans

## Different options for different needs

### Cost per ton (CPT) payments

Cost per ton payments plans take cost spikes out of the picture and charge you based on what you produce in a given month. This allows you to better predict costs and cash flows and ensures that mutual interests are perfectly aligned to maximize production.

CPT rate is calculated by factoring in all the costs, including wears, spares, labor, and services. Tonnage is measured and mutually verified on a monthly frequency. Total production in tons is then multiplied by the CPT rate to generate the final monthly invoice.

### Performance or KPI-based payments

KPI targets can be linked to fixed fee payments, with Metso receiving additional payments for exceeding targets and vice versa – if targets are not attained.

Multiple KPIs can be considered in the agreements. Typical amongst are:

- Equipment availability
- Components lifetimes
- End-product quality
- Safety indicators.

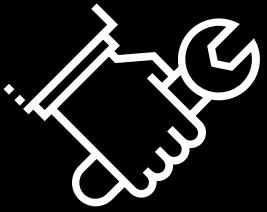
### Upgrades & CAPEX deferred payments

Deferral plans let you make payments for investments such as upgrades or new capital equipment over a longer time period, rather than the date of purchase. This gives you financial flexibility to quickly acquire the solution you need.

### Fixed monthly payments

All LCS services and parts could be provided through a monthly fixed fee for the duration of the agreement.

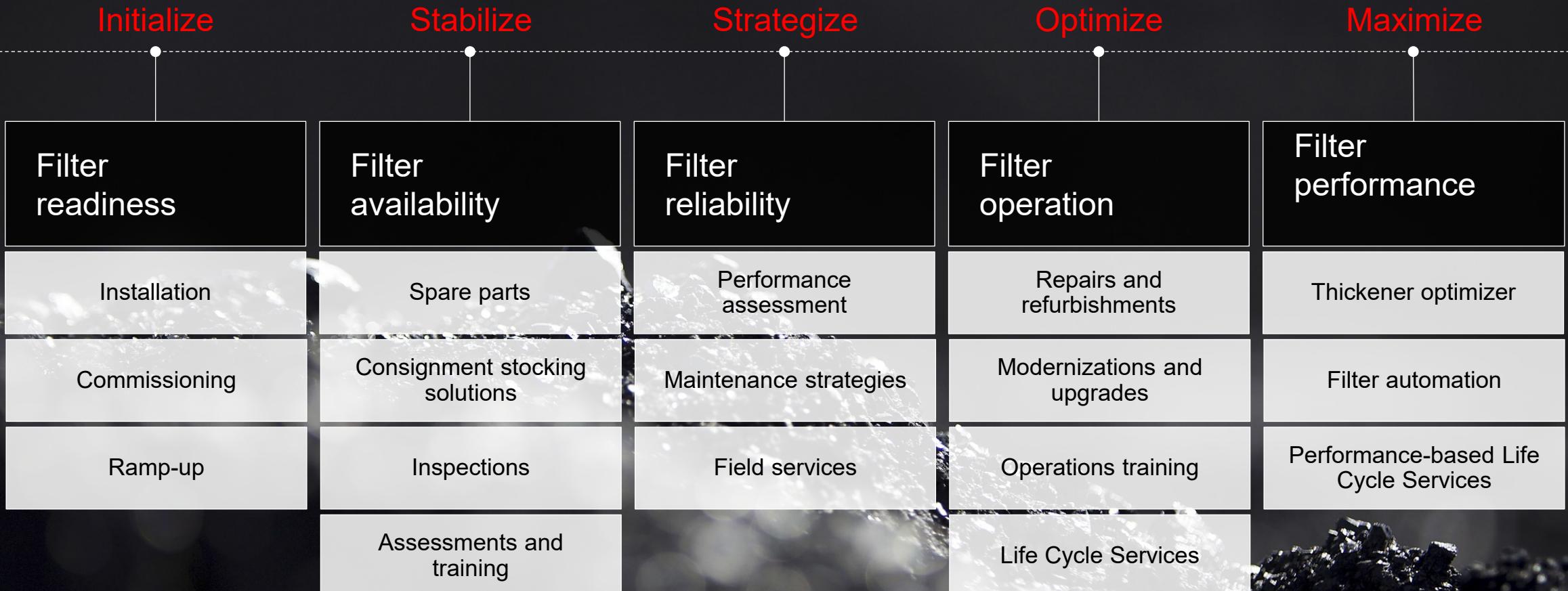
We mutually predetermine your payment schedules to allow better predictability. Once we have defined the scope of your LCS for filters program (incl., services, spares, wears, and so on), we will set up than amortization schedule, laying out invoice amounts on a monthly basis.



## Service offerings

Your #1 service partner from pit to port

# Full support throughout life cycle of your filter





# Metso

Professional services

## Field services

MORE INFO:



Our professional field service offering ranges from comprehensive solutions covering maintenance and optimization projects to performing spare part assessments and replacement.

Know the condition of your equipment with detailed technical inspections, professional reporting and expert recommendations.

Safety is a priority in everything we do. Our team of field service professionals is committed to serving you in a safe and efficient manner with adherence to strict safety procedures.

We have a flexible global operating model which brings us to wherever our customers are. Our global presence and local operations enable world-class engineering, project delivery and service for our customers.

### Benefits

- Increased safety
- Reduced downtime
- Improved plant availability & reliability
- Spare part optimization
- Increased equipment life
- Increased competencies

Our field services team will ensure the correct critical and operational spares availability to avoid extended downtimes by means of inventory assessments, spare and wear parts recommendations, and highlighting lead times and criticality.

Our field service team offers a full range of maintenance solutions. These include planned preventive, corrective and emergency maintenance activities. We also provide refurbishment, installation and commissioning services.

Our certified field service experts are best equipped to train your technical team on the maintenance of the equipment. We have customized training on key maintenance and repair procedures as well as product specific training and with a focus on safety in all procedures.

### Scope

- Advisory services
- Commissioning
- Maintenance services
- Spare and wear parts auditing and recommendations
- Component replacement labor
- Upgrades
- Training services



# Metso

Process optimization

## Optimization and laboratory services

MORE INFO:



Mining operation stages are interrelated, where one's performance affects the other's, support ranges from short-term solutions for bottlenecks to comprehensive solutions.

While each individual process must run efficiently, the best results are achieved when each stage is optimized in the context of the whole operation.

We have a global team of industry professionals who provide expert consulting, laboratory services, hardware and software products to the mining industry worldwide.

Our professionals have extensive experience in addressing challenges such as improving recoveries, de-bottlenecking processes, increasing availability, and sustainably optimizing the overall process. Solutions and capabilities can be performed in-person

### Benefits

- Increase production
- Minimize costs
- Improve stability
- Reduce environmental impact

and remotely and are scalable from a single crushing circuit to an entire mine-to-port study.

As a team, we are dedicated to the optimization of mining practices and downstream processing of valuable minerals. We are focused on providing guidance, analysis and advanced technology to our customers, ensuring they can maximize the economic benefits of the resources they mine.

Our practical experience, onsite skills and in-depth data analysis with modelling capabilities create an overall picture to help you get the most out of your entire operation.

Explore our downstream offering presented here from lab and field studies – to commissioning for specific technologies – to process evaluation and optimization.



# Metso

Professional services

## Installation, commissioning & ramp-up

MORE INFO:



Get expert support during your project start-up phase wherever you are in the world. Our experts will help to ensure your equipment performs according to agreed targets.

### Features

- Professional, effective, and safe installation and commissioning of delivered equipment
- Expert assistance from metallurgists and process specialists
- Training services are included to ensure that personnel are fully on board with the new process and technology and can manage the plant operation in an optimal way
- Optional extended warranty

### Scope

Depending on the equipment and process, the installation, commissioning and ramp-up service can include:

- Inspection of the plant and foundation
- Delivery package expediting and checking
- Equipment assembly/installation advice and inspection
- Pre-operational equipment testing
- Electrical and automation testing and inspection
- Water tests and test runs
- Initial continuous feed of raw material
- Process and equipment start-up

### Benefits

- Increased safety
- Minimized risks of breakdowns
- Well optimized schedule
- Smooth production start-up and shorter road to profitability



# Metso

Professional services

## Filtration inspections

MORE INFO:



Get accurate information about the condition of your equipment, recommendations for maintenance and improved operation.

3 Inspection packages for your Metso filters designed to reduce unplanned downtime, equipment failure, and risks associated with operating faulty equipment.

Undetected issues can lead to frequent breakdowns and unplanned service work, significantly increasing production losses and repair costs.

The information provided during and after inspection will assist in minimizing unscheduled downtime and in reducing long-term operating expenses. Our specialists can also recommend service and spare parts solutions.

### Benefits

- Reduced downtime
- Extended filter lifetime
- Increased reliability
- Improved safety and sustainability
- Better visibility of maintenance requirements

### Features

- Faster and easier inspections allow you to get recommendations to quickly act upon
- Delivered reports are clear, thorough and easy to share with colleagues
- Filter benchmarking identifies trends based on current and historical data
- Comprehensive data gathering improves your decision-making

### Inspection packages

#### 1. Filter visuals and vitals

A quick way to understand your filter's overall condition

#### 2. Filter mechanical verification

Standard inspection package with specific adjustments and fixes

#### 3. Filter comprehensive/customized inspection

Complete, in-depth package with the additional check of the hydraulic unit and field circuit



# Metso

Professional services

## Process advisory services

MORE INFO:



### Unique know-how and leading process tools to help you reach your sustainability targets

Our professionals have extensive experience in addressing such challenges such as improving recoveries, de-bottlenecking processes, increasing availability; by optimizing your overall processes with our in-depth process understanding and technological expertise.

#### Scope

The service consists of data preparation and analysis, the assistance of Metso process experts in correcting and optimizing production processes at your site, and reporting and follow-up activities as agreed.

#### Features

- Onsite troubleshooting consultation to solve process bottlenecks
- Expert recommendations to achieve better process performance
- Corrective actions implemented together with our process experts to optimize your production process
- Extensive process knowledge supported by a global installed base and technological expertise.

#### Benefits

- Improved product quality
- Increased process throughput
- Identification of bottlenecks for improvements
- Optimizing your process will help you achieve your sustainability targets



# Metso

Process optimization

## Filtration laboratory and process testing

MORE INFO:



With a unique portfolio of testing and process expertise as well as process simulation, Metso is the industry leader with advanced and reliable research capabilities.

From bench scale to lab and pilot testing, the Dewatering Technology Center covers filtration, thickening, and water treatment processing. This gives our customers a one-stop shop for all their testing, enabling them to develop their flowsheet efficiently and sustainably.

Lappeenranta is the home to our Dewatering Technology Center and one of the bigger manufacturing locations of Metso filtration technologies. The Dewatering Technology Center was built in 2015.

### Benefits

- Quick, reliable, and representative results that can be easily scaled up
- Improved process understanding based on calculations, literature studies, and tests
- Deep competence development

Larox® started testing at the Lappeenranta location in 1977, nearly 50 years ago. We continue the journey of Larox® with filtration solutions as well as research and testing. Over the years, we have conducted and built a database of over 14,000 dewatering tests.

Today, we test much more than just Larox® filtration technologies. Currently, we have the capability to test 14 different filtration technologies at the DTC, and onsite, including pressure, vacuum, and polishing filtration technologies.

Apart from laboratory testing, Metso provides onsite studies with mobile test filtration units – from suitcase to container-size filters, depending on the needs. Additionally, cloth analysis can be performed to find the reasons for cloth failure, e.g., premature clogging, and to provide knowledge and tools to eliminate these challenges in the future.

# Metso

Training services

## Filter product training

MORE INFO:



Metso Academy's filtration training provides the knowledge and skills required for safe and efficient operation and maintenance of Larox® filtration systems.

Maintaining an up-to-date skill set among site personnel is increasingly challenging due to a shortage of skilled labor. Metso Academy's training helps bridge the knowledge gap between your personnel, filters and operational goals. Our Metso Academy can cover everything from theory to practical training, ranging from training on a single piece of Metso equipment to plant-wide solutions.

Our certified experts deliver comprehensive training tailored to your needs. With a global team of technical instructors equipped with extensive industry and equipment knowledge, we ensure high-quality education for your personnel.

### Benefits

- Improved safety
- Higher efficiency
- Increased productivity
- Higher equipment availability
- Optimized processes and maintenance
- Global expert network

We offer training on-demand and tailor our courses to customer-specific machines and processes. The offering can be delivered at Metso facilities or at your site. Furthermore, there are options for eLearning self-study, webinar recordings, simulator training, and VR training.

### Training

#### *Theory training*

The classroom-based course covers basic operation principles, operator interface unit training, the safe use of Larox® filters and aftersales support.

#### *Practical training*

Connect classroom-based information to practical experience. Operators and technical specialists learn practical knowledge to run, maintain, and troubleshoot Larox® filtration systems. Practical training can include demonstrations, simulations and equipment training.

#### *Customized training*

Build competence in Metso products and gain more in-depth information for designated equipment. The training equips your personnel with thorough information on our technologies, process optimization and tips to help you move from reactive to proactive maintenance.



# Metso

Professional services

## Component replacement labor

MORE INFO:



Major components require specialized personnel and tools for proper installation to ensure safety, meet tolerances, and avoid reducing component lifespan.

Metso's service teams specialize in performing component changes safely and efficiently, leveraging extensive experience in proper installation practices. By outsourcing these tasks to us, you minimize risks to your team by reducing their exposure to complex and unfamiliar change-outs.

Our technicians employ advanced planning tools, including critical path analysis and meticulous scheduling of pre-outage activities to significantly reduce downtime. Additionally, we offer specialized work methods to expedite major component replacements.

### Benefits

- Improved safety
- Increased uptime and availability
- Reduced maintenance costs

Choosing our component replacement labor services ensures streamlined operations with a single point of responsibility for the entire maintenance event.

In certain cases, OEM warranties can be extended when Metso crews install major components. Backed by global knowledge centers, our onsite professionals ensure precise troubleshooting and adjustments, saving you time and money. The process begins with defining the scope of work.

Do you need onsite supervision to support your in-house crew or help with planning and coordinating maintenance? Based on the agreed scope, Metso engineers, supervisors, and technicians will be dispatched to replace components efficiently and reliably.

Specialized lifting procedures will be identified and executed, with Metso experts performing the required maintenance in alignment with the latest engineering specifications, standardized procedures, and industry best practices.



# Metso

Professional services

## Service and repair centers

MORE INFO:



Add years of efficient use and valuable life to your equipment. We restore a wide range of equipment and components to the desired level with minimal downtime.

### Tried and tested procedures

As an OEM, we have in-depth knowledge of OEM repair procedures and can ensure the use of genuine parts that fit your machine. We combine our decades of equipment experience with modern repair techniques and technology to offer the best repair even for older equipment.

### No weak link in the equipment chain

Every component in a piece of equipment is like a link in a chain, if there is even one weak link, performance can suffer. Our repairs ensure equipment performs to its designed standards.

#### Benefits

- Improves efficiency
- Reduces operational and maintenance costs
- Decreases energy consumption
- Enhances sustainability through lower waste disposal costs, parts recycling, and reutilization
- Allows continued use of familiar equipment

### Risk reduction

Working with a Metso repair center ensures risk reduction. Firstly, you get firm quotes from the OEM repair center, minimizing surprises once the repair has been agreed upon.

Secondly, the use of OEM drawings and parts ensures that parts fit and perform to specifications, reducing further unplanned downtime.

### Competitive rates

A Metso repair means you get a competitive rate and can rest assured that service problems will be fixed quickly the first time, resulting in long-term savings.

#### What to expect:

- Minimized downtime
- Higher machine availability
- Lower maintenance and parts costs
- Increased safety



# Metso

Professional services

## Off-site maintenance & repairs

MORE INFO:



Equipment is refurbished using OEM parts to ensure optimal restoration backed by our technical support providing a cost-effective alternative to secure a long-term solution.

Our team of experts meticulously inspect, disassemble, replace all damaged components and update obsolete parts to optimize the performance of your equipment.

Once the assessment is complete, we provide a comprehensive report containing a condition assessment and recommendations tailored to suite our customer.

We have adopted an integrated approach to all aspects of its Global Quality, Environment, Health and Safety (QEHS) Management System.

### Benefits

- OEM Warranty
- Increased reliability
- Reduced operational costs
- Prolonged lifespan
- Performance optimization
- Cost effective

The system is the instrument by which we track, regulate and assess that our employees and contractors can perform their responsibilities confidently, consistently and efficiently, while at the same time providing you with an assurance you are receiving high-quality products and services delivered in a safe and environmentally responsible manner.

Refurbishments significantly reduce material requirements when compared with the procurement of new equipment which has a lower impact on the environment.

### Original equipment manufacturer (OEM)

We are dedicated to providing our customers with the highest quality service. Our utilization of OEM spare parts assures customers of:

- Quality
- Warranty and support
- System compatibility
- Durability
- Spare and wear part availability

# Metso

Process optimization

## Metso Innovation Center

MORE INFO:



A comprehensive view of the value chain, fostering ideation, collaboration, and innovation through the latest digital tools, technologies, and expertise.

The Innovation Center empowers co-creation and next level cooperation. Here, working closely with our customers, we identify, understand and solve customers' problems and bottlenecks together. We concretize value calculations, increase transparency and predictability, and find the best solutions with the industry's experts.

Working jointly with customers and partners, we create new ideas, speed up innovations and time-to-market. The Innovation Center will help us understand new phenomena and create additional value to already existing solutions.

### Benefits

- Strengthens technological leadership position of our customers
- Improves and increases cooperation and transparency
- Speeds up innovation and time-to-market

The Innovation Center environment and all its content are remotely accessible to all Metso customers. The physical space is located in Espoo, Finland.

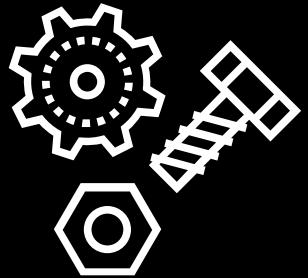
### Solutions

Available now:

- Virtual Experience Center (VEX)
- Engineering digital twin
- Capability to present 3D models
- Asset analytics, device connectivity
- Process optimizer demo
- Virtual plant tour
- 3D scanned plants
- Improved collaboration tools

Coming soon:

- Process control demos
- 5G connectivity
- Metallurgical digital twin
- Extended process optimizer demos
- Modelling and simulation

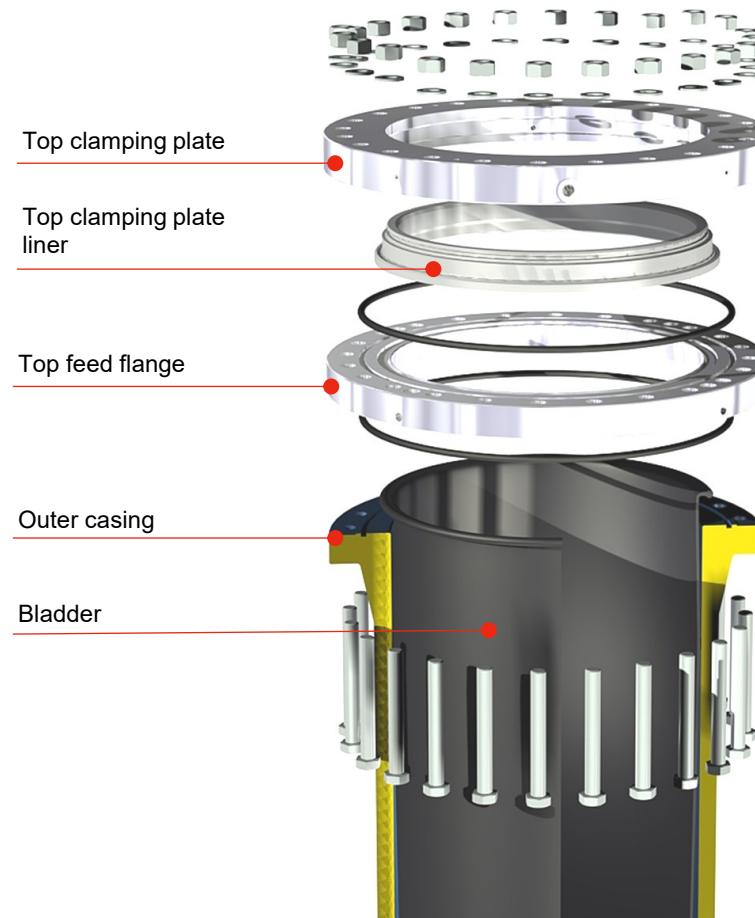


Spare and wear parts  
Engineered to perform

Metso

# Metso Tube press spare parts

Metso is committed to providing and maintaining a complete global portfolio of spare and wear parts to ensure uninterrupted Tube Press production—from start-up through decades of operation to the final stage of the press life cycle. Through our in-house R&D, we deliver the latest innovations and manage lifecycle changes for both OEM and third-party parts and systems, guaranteeing a seamless, hassle-free experience and peace of mind for our customers.



**Metso**



# Metso

Filtration spare and wear parts

## Tube press cloths

MORE INFO:



### Ensure optimal filtration performance, maximum uptime, and reliable process results.

With over three decades of experience and continuous product development, Metso delivers filter cloths of unmatched quality.

#### Tailored for performance

Filter media is a critical component of the filtration process. Our cloths are custom-designed to optimize Tube Press performance, improve availability, and enhance overall process results.

#### Expert support

Our extensive service network and commitment to customer support ensure you select the ideal cloth for your filter, application, and process requirements.

#### Guaranteed Quality

Metso OEM filter cloths are engineered to meet strict standards, ensuring reliability and adherence to original specifications.

#### Optimal Operation

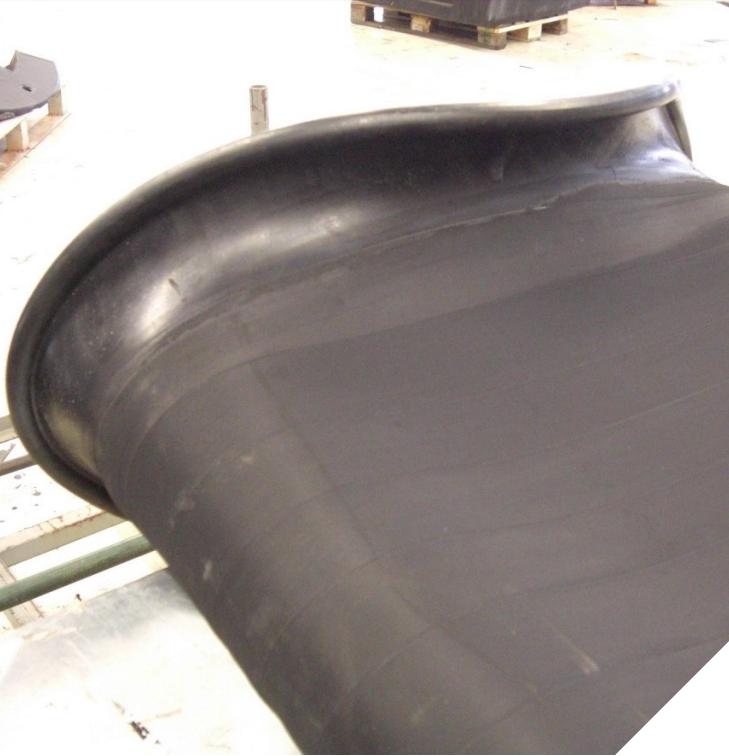
Over time, filter cloths can blind and reduce efficiency. Replacing worn cloth with Metso OEM products restores your Tube Press to peak performance, maintaining optimal filtration levels.

#### Benefits

- Custom-designed to fit your equipment, process, and production needs
- Optimized performance with higher throughput, clear filtrate, and improved filter availability
- Superior cake release and blinding resistance
- Durable construction resistant to stretching, shrinking, and abrasion
- Extended service life

#### Features

- Optional FDA certification available on request
- Easy implementation with no structural modifications required



# Metso

Filtration spare and wear parts

## Tube press bladder slide

MORE INFO:



Ensures uniform pressure, reliable performance, and consistent dewatering under demanding high-pressure conditions

Metso's Tube Press bladder systems are central to high-pressure filtration in demanding industrial applications. They apply uniform pressure to the filter cake, ensuring optimal dewatering performance. Designed to handle extreme operating conditions and pressures of up to 100 bar, these bladders deliver consistent performance, safety, and reliability throughout every filtration cycle.

Strict manufacturing standards ensure consistent material and mechanical properties in every shipment, while thorough inspections verify dimensions and design criteria in line with our quality assurance plans.

Each bladder and its packaging are clearly marked to support individual tracking, documentation, traceability, and certification, ensuring full compliance with operational and regulatory requirements.

### Benefits

- Minimized downtime with quick ~2-hour replacement
- Enhanced safety and lower contamination risk with leak-proof sealing

### Features

- High-strength elastomers for exceptional fatigue and chemical resistance
- Optional FDA certification available on request
- Material options: Natural Rubber standard, Polyurethane available as an alternative



# Metso

Filtration spare and wear parts

## Tube press candles

MORE INFO:



Ensures maximum filtrate flow, efficient cake discharge, and long-lasting, low-maintenance operation even under demanding conditions

### Candle & filter design

The candle forms the filter frame where the cloth is securely mounted. Its rigid construction ensures maximum filtrate flow and efficient cake discharge. A radial slurry feed inlet with seals delivers optimal performance while minimizing wear.

### Durable sealing solutions

Specially designed seals and a feed inlet non-return valve (NRV) guarantee reliable operation even in demanding applications. Our versatile range of seals allows easy adaptation to different process conditions.

### Material excellence

Hi-chrome stainless steel provides resilience across a wide range of applications. Leveraging decades of experience and materials expertise, we have developed solutions that prevent rubber deterioration under slurry exposure and cyclic loads, delivering significant cost savings to customers.

### Optimized maintenance & availability

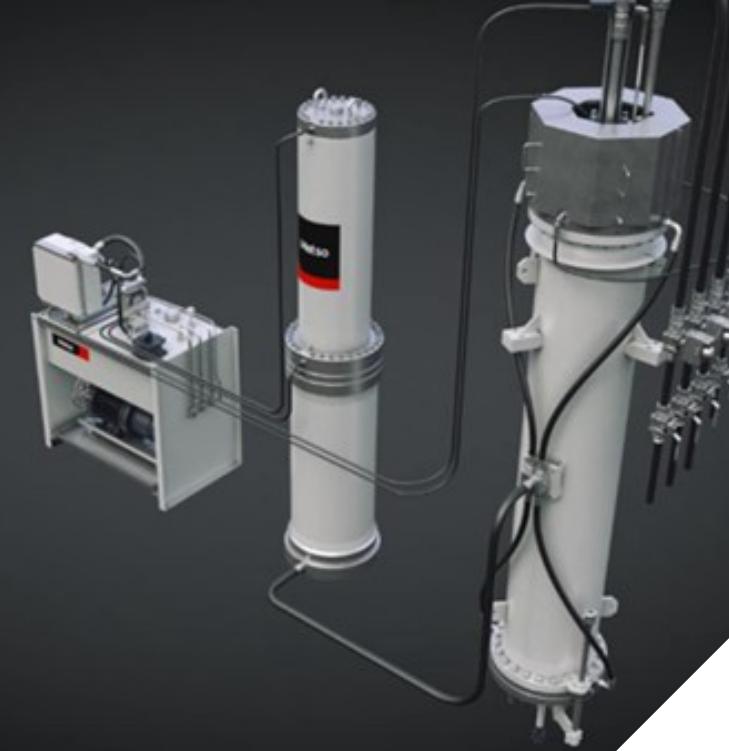
Our comprehensive portfolio of sealing and base reinforcement materials maximizes filter availability, reduces sealing-related downtime, and extends maintenance intervals.

### Benefits

- Maximizes filter availability
- Extends maintenance intervals through expert design
- Simplifies inventory management with fully interchangeable candles

### Features

- Reliable chamber sealing for consistent production and clean operation
- Hi-chrome SAF2205 steel provided as standard
- Flexible sealing options with various NRV and seal materials for optimal process adaptation



# Metso

Filtration spare and wear parts

## Tube press booster

MORE INFO:



Ensures stable high-pressure performance, optimized process control, and improved dewatering efficiency for consistently reliable operation

The Tube Press booster is a dedicated drive system integrated closely with the filter, designed to generate and maintain the high hydraulic pressure needed for optimal Tube Press performance. It increases pressure by supplying pressurized water or hydraulic fluid behind the filter's internal bladder.

The system features fully optimized control of the hydraulic power pack, volume booster, and overall process.

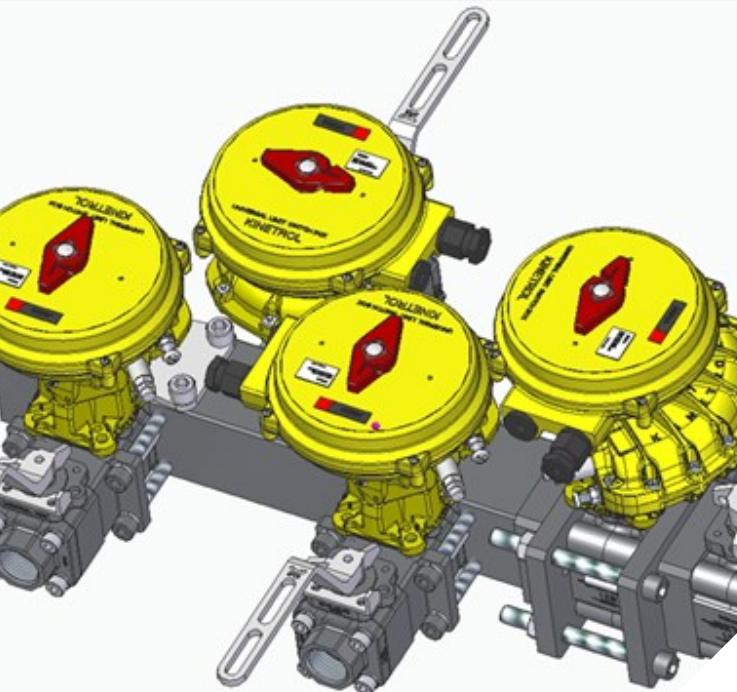
The power pack delivers the driving force, while integrated sensors and a positioning valve provide real-time data for precise control and continuous pressure adjustment, ensuring the pressure follows the material's dewatering curve for maximum efficiency.

### Benefits

- Environmental benefits through reduced energy use and improved recovery of high-grade material
- Higher cake dryness enabled by reliable operation and continuous pressure optimization throughout each cycle

### Features

- Fully automated operation ideal for small- to medium-sized plants
- Compact design with a minimal footprint
- Easy to install and maintain



# Metso

Filtration spare and wear parts

## Tube press service valves

MORE INFO:



Offers long-lasting durability, lower maintenance costs, and reliable performance under demanding pressure conditions

Our new service water valves for Tube Presses are engineered to deliver superior durability and extended lifetime compared to previous generations and competing solutions.

Due to their modular design and advanced materials, these valves reduce maintenance downtime and related costs, significantly lowering the total cost of ownership.

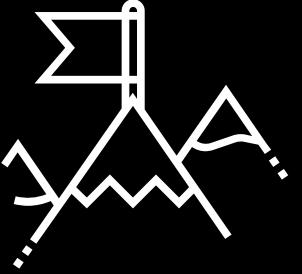
Service water valves are purpose-built for Tube Press applications, designed to withstand fluctuating pressures ranging from vacuum conditions to high pressures of up to 100 bar.

### Benefits

- Increase Tube Press uptime
- Reduce unplanned downtime with simplified, service-friendly design
- Lower annual valve ownership costs
- Reduce environmental impact through a more robust design requiring fewer spare parts and replacements

### Features

- Bus interface communication enables easy and reliable digital serial connectivity
- Ultra-high molecular weight polyethylene seats provide exceptional wear resistance for demanding Tube Press applications
- Dual stem O-ring seals prevent leakage and block foreign particle ingress
- Modular design allows simplified, efficient maintenance



Metso in general  
Partner for positive change

Metso

# Metso – Enabling sustainable modern life

## Megatrends

Urbanization  
Electrification  
Sustainability  
Resource scarcity

## Vision

To be customers' number one choice for sustainable use of Earth's natural resources. Together we deliver service, reliability, innovation and results – safely.

## Brand promise

We are the partner for positive change

## Top priorities

Financial performance  
Customer success  
Sustainability  
Performance culture

Metso  
**PLUS**



AGGREGATES | MINERALS | METALS | SERVICES | CONSUMABLES

## Values



High ambition – always



Customer in center



Getting it done – together



Open and honest

Metso

# Filtration powerhouse

## Metso filtration portfolio

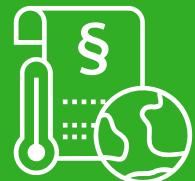
PRESSURE FILTRATION		Larox® PF	Larox® PF-DS	Larox® FFP	VPA filter	Tube press	TPS filter	FP/FPS filter
VACUUM FILTRATION	Larox® RT-GT							
	Larox® RT							
POLISHING FILTRATION		AC filter	DM filter	LSF filter	GM filter			
	AC filter							
	DM filter							

# Our sustainable operations

Our results are driven by ambitious targets

## Net Zero

CO<sub>2</sub> emissions from own manufacturing by 2030



-72%

CO<sub>2</sub> emissions in own manufacturing achieved\*

165

Supplier sustainability audits in 2024

63%

Of own manufacturing units have solar panels

98%

Renewable electricity used in our own parts manufacturing

We are committed to limiting global warming to

1.5°

140+

Metso Plus offerings

-20%

CO<sub>2</sub> emissions from logistics by 2025\*  
(-13% 2024)

30%

Suppliers with science-based emission targets  
(31.6% 2024)

100%

R&D projects with sustainability targets  
(97.5% 2024)

93%

Of our suppliers signed our Code of Conduct in 2024

120+

Contracts with scrap-return programs

Metso

(\*) compared to 2019

# Your partner in industrial filtration

Metso provides reliable, efficient and fully automated filtration solutions for a wide-range of industries, including chemicals, food industry, pharmaceuticals, industrial minerals and hydrometallurgy.

Utilizing more than 14,000 tests in our database, we have the capability to test your application on site or in our Dewatering Technology Center, a unique world-class testing facility in Lappeenranta, Finland. We have over 5,000 references globally, which enables us to propose fit for purpose solutions to match your process and operational needs. During the solutions' life cycle, our global service is there to support maintenance and optimization.

All industrial filtration solutions belong to Metso's Plus portfolio. These products have more energy or water efficiency than the market standard, therefore they help you reduce CO<sub>2</sub> emissions and help achieve other sustainability priorities such as reducing pollution.

You partner for positive change.



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# Metso

## Partner for positive change

Harness the power of experience

Your #1 service partner from pit to port



[metso.com](http://metso.com)

