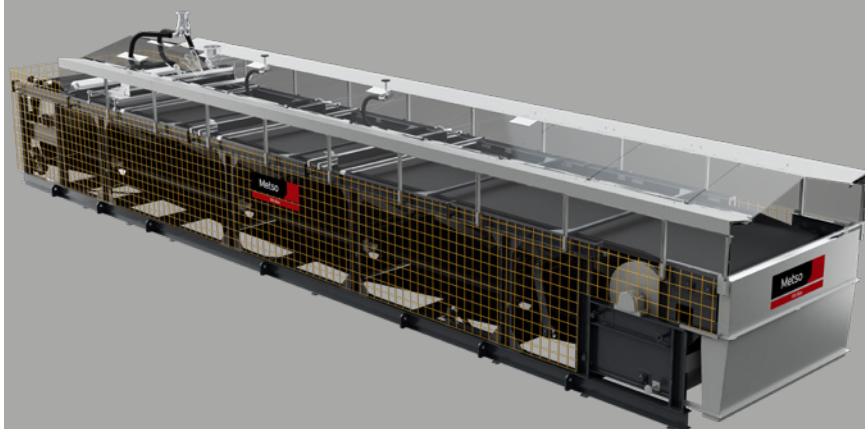


# Metso

Vacuum belt filter (rubber belt)

## RB filter



Application

Suitable for iron ore, tailings, minerals applications, mainly high tonnage and/or applications where cake washing is required.

Designed to meet the requirements of heavy-duty and high-capacity applications.

**Tough enough to handle highest capacities**  
Metso RB filters are designed to perform and built to last. They are incredibly versatile, and are able to manage heavy-duty loads while still executing superior production. They are suitable for a wide range of processes, such as iron ore, tailings, minerals applications as well as applications where cake washing is required.

Horizontal belt filters - such as Metso RB filters - offer a wide variety of benefits for your process. This includes improved safety and availability, continuous filtration process, efficient cake washing, worldwide service coverage, and a fully automatic and flexible operation.

**Maximize sustainability and minimize costs**  
With their low energy consumption, Metso RB filters can decrease the environmental impact of an operation. They also require less maintenance, resulting in low maintenance costs and further reduces their overall lifetime production costs as well.

#### **RB filters in action**

Metso RB filters are horizontal belt filters where the cloth is supported by a grooved rubber belt. A vacuum box under the belt applies, through a series of holes, the vacuum into each groove. The grooves distribute the vacuum over the width and the filtrate flows in the opposite direction into the vacuum box. A manifold at the side of the filter connects the vacuum box to (a) filtrate receiver(s) where the gas and liquid flows are separated.

These filters are primarily used to separate relatively easy filtering suspensions in applications where good post-treatment is required. The belt and cloth are driven around two pulleys and across the support table with a roller bed minimizing the friction. The suspension is introduced at one end of the filter, de-liquored to produce a cake which if required can be washed and then discharged from the belt. The filters can be provided with options like; cake washing devices, vapor hood and cake chute.

The RB filter range includes 3 filter widths:

- RB 1.6, ranging from 6m to 20m length
- RB 3.0, ranging from 10m to 40m length
- RB 4.25, ranging from 20m to 40m length

#### **Services and Aftermarket (Life Cycle Services)**

Achieving optimal filtration results require filters to be in excellent mechanical condition and balanced with optimized maintenance and operations. Utilizing Metso Life Cycle Services (LCS) can help improve overall filter reliability, performance and safety.

There are four LCS for filters program levels to choose from that can help you overcome various challenges. Based on many years of experience in designing, building, delivering and maintaining filters, Metso knows how to get the most from your filtration assets throughout their entire life cycle.

**Read more at**  
[metso.com/portfolio/rb-filter/](https://metso.com/portfolio/rb-filter/)