



ROYTEC
Global Separation Solutions

Johannesburg | Perth | Toronto | Yantai | Santiago

ROYTEC VACUUM BELT FILTER



**MARKET LEADERS IN
LIQUID / SOLID SEPARATION**

ROYTEC VACUUM BELT FILTER

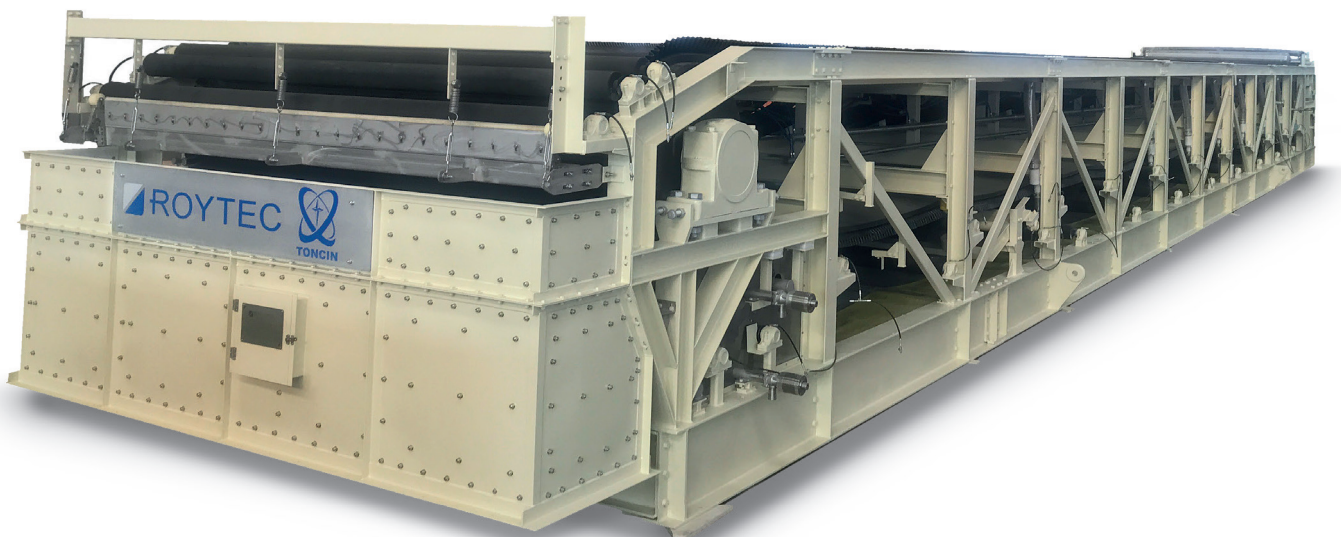
ROYTEC GLOBAL is an International Company specializing in Liquid / Solid and mineral Separation technologies for the Mining and Industrial sectors.

Roytec is privately owned by Directors and Managers. We are passionate about excellence in our services and we pride ourselves in delivery to our promises. Our equipment is fully supported by Roytec Specialists based in Johannesburg, South Africa; Perth, Australia; Toronto, Canada; Yantai, China and Santiago, Chile.

Roytec's fabricator in Yantai, China are the leading Belt Filter fabricator globally with the capability to deliver filters up to 200m². Roytec have allowed for the major belt filter components to be manufactured in China, with mechanical/electrical equipment (Gearboxes, electrics, bearings, instruments, etc.) being International brands serviced by OEM's globally.

Roytec provide the application engineering, in-house Belt Filter designs and parametric models, and full guarantees along with the western interfacing requirements (specifications / QA/QC etc.).

Roytec's fabricator in Yantai, China are the leading Belt Filter fabricator globally with the capability to deliver up to **500 filters per year**. The factory in China is a high-tech enterprise, employing over **2000 highly qualified staff and are ISO 9001 & CE certified**. Roytec have full time Engineering & QA/QC presence at the factory in Yantai to ensure western project standards and quality. The agreement allows for a combination of the best design features from both companies for any particular application. Roytec Belt Filters are available in sizes from 1m² to 200m² and are always fitted with International brand mechanical & electrical components to ensure good parts availability. Manufacture of major components is carried out in China, resulting in a sound design, economical filter, fully guaranteed and serviced by Roytec.

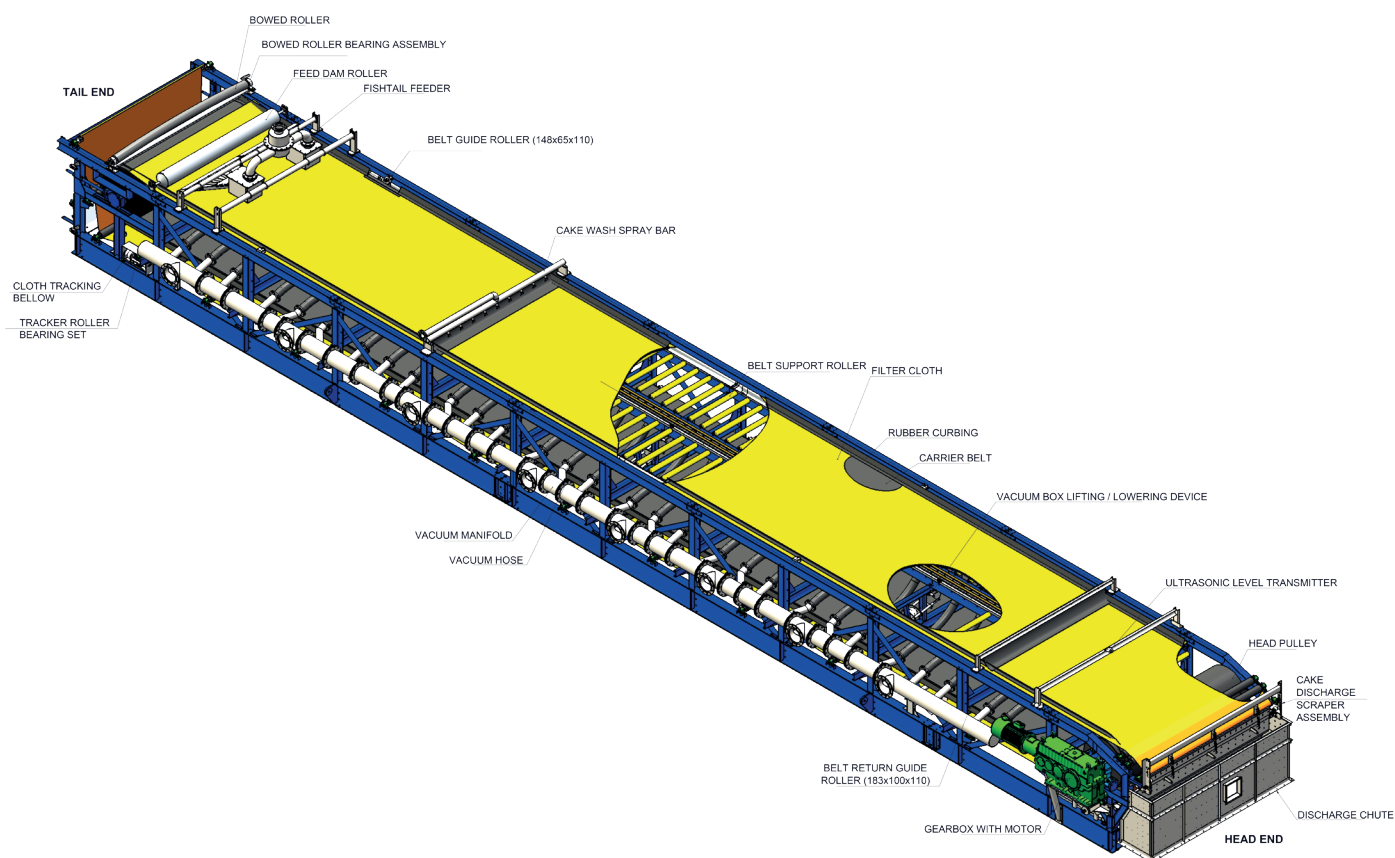


PROVEN ENGINEERING EXCELLENCE IN VACUUM BELT FILTER SOLUTIONS

Roytec Vacuum belt filters are tailored to meet the unique requirements of various industries. With a track record of proven performance, robust design, and backed by our comprehensive laboratory facilities, these filters offer dependable performance for your filtration needs. Whether you operate in the mining or chemical sector, we have a solution that fits your needs.

FEATURES

- **Comprehensive Laboratory Testing** – Our extensive in-house metallurgical laboratory sets us apart. We conduct meticulous test work on your specific feed material, ensuring the vacuum belt filter is optimally sized for your application, with process guarantees to back it up.
- **Efficient Dewatering** – Engineered for effective liquid-solid separation, our vacuum belt filters deliver cakes with minimal moisture, simplifying subsequent processing.
- **Cake Washing**– Roytec belt filters provide the best cake wash efficiency with the least water because of plug flow of wash water through the horizontal cake. Counter-current cake washing in 2 or 3 stages is common allowing wash water to be re-circulated and increasing liquor tenor.
- **Versatile Applications** – Roytec Vacuum Belt Filters are used extensively in spodumene, float concentrates, leached ores of all kinds, heavy mineral sands, precipitates, phosphates, coal, tailings & backfill, gypsum, fluorspar, graphite, phosphoric acid duties and many more.
- **Low Maintenance & Easy Operation** – Built with user-friendly design, automated controls, and robust construction, our filters offer hassle-free operation and maintenance.



DIVERSE SIZING AND ADVANCED MATERIAL CONSTRUCTION”

The versatility of our vacuum belt filters is evident not only in their application but also in their design. Catering to diverse operational scales and environments, we provide:

- **An extensive Size Range** - Whether you have a compact operation or a large-scale industrial setup, our vacuum belt filters are designed to meet your needs. With sizes ranging from 1.2m² to a vast 200m², we have solutions tailored for every scale.
- **Material of Construction** - Recognizing that different processing environments have varying demands, we offer our filters in a range of materials. From corrosion-resistant alloys to specialized polymers, our filters are constructed to ensure durability and optimal performance in your specific context.
- **Optimal Performance Across Materials and Sizes** - Regardless of the size or material of the vacuum belt filter you choose, consistent performance is our promise. Every filter we design and manufacture undergoes rigorous testing to meet our exacting standards.

HOW DOES THE VBF WORK?

The filters have an endless carrier rubber belt that rides in a flat horizontal plane. An endless filter cloth travels together with the support carrier/drainage belt, providing mechanical support to the filter cloth.

This filtering surface (filter cloth) moves from a point where slurry is introduced onto the belt (feed end), liquor is sucked through the cloth by a vacuum and a cake is formed on the cloth surface. The cloth travel continues to the cake drop off point where the cake is discharged (discharge end) and after continuous washing the cloth returns to the point of feed slurry application.

Looking for trusted engineering and filtration solutions? Reach out to our experts today to discuss how our vacuum belt filters can be customized to meet your specific needs.





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Other ROYTEC equipment

- Vacuum Disc Filters
- Thickeners using RadFlow Feedwell Technology
- Dual Media Filters
- BGRIMM Flotation Cells, Magnetic Separators and Attritioning Mills
- Filter Presses & Tower Presses
- Ceramic Disc Filters
- Ion Exchange Systems
- Flocculant / Coagulant Preparation Dosing Plants
- Linear Screens
- Dynamic Bed & Pinned Bed Clarifiers
- Vibrating Screens



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