



Trusted. Connected. Engineered.

CAPITAL EQUIPMENT FOR LIQUID SOLID SEPARATION PROJECTS



ABOUT US

PEQON is a South African based leader in capital equipment solutions for liquid-solid separation across mining, chemical and wastewater sectors. We offer turnkey systems from high-rate thickeners and advanced filter presses to modular containerised pilot plants, designed for optimal performance, operational flexibility and rapid deployment in demanding environments.

Together with our dynamic team of experienced design, mechanical, metallurgical and process engineers, our approach combines engineering excellence with field-proven results, backed by exclusive partnerships with global OEMs that are leaders in pressure and vacuum belt filtration.

PEQON has built its reputation on solving real-world dewatering challenges with efficient, robust and sustainable systems, aligned with the evolving ESG demands and smart water management practices across the mineral processing value chain.

Our journey reflects our ability to adapt to client needs and deliver integrated solutions for dewatering challenges across the African continent and beyond.

OUR PRODUCTS

PEQON offers a complete suite of capital equipment and engineering services tailored to liquid-solid separation processes. Our solutions span a wide range of dewatering applications and include end-to-end project support from scoping and equipment selection to installation, commissioning and after-sales performance monitoring.

- High-Rate Thickeners with our **EvoFlow Core® Feedwell** system.
- Horizontal Vacuum Belt and Disc Filters.
- Advanced Filter Press Technologies.
- Containerised Pilot and Modular Systems.
- Complete Tailings Filtration and Dry Stacking Systems.

MATERIALS HANDLING SOLUTIONS

PEQON offers expertise in the design, detail engineering and supply of conveyor systems for process plants and dry stacking of tailings. Using our expert knowledge in dewatering systems, we are more than capable of managing the transition from the dewatering unit to the materials conveying and stacking facilities.



UNDERGROUND PRESSURE FILTRATION

PEQON supplies plug and play skid mounted mud-presses for underground dewatering applications. These units come with a fully integrated pumping station and control panel and are easy to install, operate and maintain. These mud-presses facilitate water recovery and generates filter cake for backfilling.



VACUUM BELT FILTRATION

Vacuum Belt Filtration is one of the best-known dewatering technologies when it comes to liquid-solid separation applications. **PEQON** designs, supplies and installs vacuum belt filters and assists clients with process audits and performance optimisation of existing installations.



GRAVITY THICKENING

Thickening is an integral unit operation in the mineral processing value chain. Our in-house expertise in gravity thickening rates amongst the best in the world. **PEQON** designs, supplies and installs high-rate thickeners for simple and complex applications and, together with our international partners, we deliver the best engineering know-how when adopting forced dilution systems and our in-house designed EvoFlow Core® Feedwell delivers cutting edge performance.



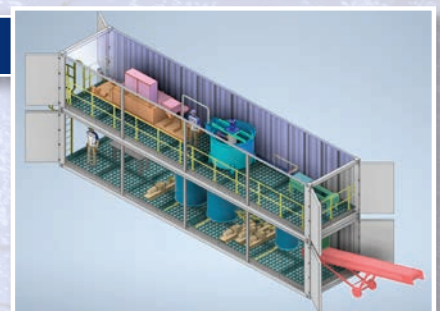
LARGE FILTER PRESS INSTALLATIONS FOR DRY STACKING

PEQON offers expertise in the next-generation filter presses, capable of processing more than 8 000 tons of solids per day with water recovery rates exceeding 80%. These high-capacity units feature advanced automation and smart technologies that provide operators with real-time performance data, enhancing operational control and decision-making. Filter plate sizes range from 4m x 2m to an impressive 5m x 5m and early results from demonstration plants are proving highly promising.



CONTAINERISED MODULAR PLANTS

PEQON offers expertise in Containerised Modular Plants that provide unmatched versatility for medium-scale pilot testing and remote site applications. These units integrate thickening, flocculant dosing filtration and materials handling in a fully self-contained format. They are ideal for fast deployment, trial campaigns or semi-permanent operations in areas with logistical or infrastructural constraints. Built for performance and mobility our containerised solutions accelerate project timelines and reduce commissioning risk.





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The global shift toward dry stacking of tailings is accelerating as mounting ESG pressures drive the industry to rethink the risks and escalating costs of traditional tailings dams.