

FILTRATION & SEPARATION SOLUTIONS

Roymec Technologies (Pty) Ltd is an engineering and project management specialist company providing equipment, plant design and turnkey construction solutions and services in the field of solid liquid separation and allied processes.

Established and staffed by highly skilled and experienced engineers, the company already boasts impeccable credentials in this niche area. The companies' core competencies lie in the mining, metals and minerals, hydrocarbon processing, water treatment and other heavy industries and are reflected in the novel process solutions that are offered in the sectors that we service.

Roymec Technologies provides **total solutions** from concept through to commissioning, incorporating the civil, structural, mechanical, electrical, control and instrumentation disciplines. Roymec Technologies has sound mechanical, process and project experience and its engineers provide the full compliment of in-house expert design & engineering skills.

The company's comprehensive audit of applications and attention to detail in the design process yield unique solutions guaranteeing returns.

Roymec Technologies is a customer-centric organisation that prides itself on its professional integrity, process engineering excellence and the ability to deliver. With a strong, loyal and market-driven management team who while being flexible and quick to react to changing market conditions, are consistent and circumspect in their approach to handling client expectations.

Roymec Technologies is associated with Roymec originally established in 1979. The company has a well established global blue chip client base and boasts an annual turnover in excess of R80 million.

Roymec Technologies abridged client listing:

- African Explosives Limited
- Afrox
- Aker Kvaerner
- Anglo Base Metals
- Anglo Coal
- Anglo Platinum
- Bateman Material Handling
- Chambishi Mining
- Chongqing Yuanda Environmental Protection Group
- CVRD
- Dowding Reynard and Associates
- ERPM / Crown Gold
- European Minerals Corporation
- FIRST QUANTUM MINERALS
- Fluor
- Foskor
- Frontier Mine
- Fuel Firing Systems
- GM Associates
- GOLDFIELDS
- Goldfields of South Africa
- Grace Cement Products
- GRD Miniproc
- Green Circle
- Greenside Colliery
- Highveld Steel /Vanchem Division
- Impala Precious Metals Refinery
- Intermet
- International Ferro Metals
- Iscor VDB
- JSC VARVARINSKOYE
- KANSANSHI MINING PLC
- Kloof Gold Mine
- KOBOLD
- LANGER HEINRICH URANIUM
- Logiproc
- M&R Engineering Solutions Ltd
- Metorex
- Mopani Copper Mines PLC
- Muskeg River Contractors
- NKANA Copper
- Olympic Dam



Excellence in process engineering from concept to commissioning

■ Thickeners

Conventional and High Rate Thickener units up to 75m diameter with a range of sidewall and centre pier mounted bridge designs, electric and hydraulic drives and fully integrated lift and automated control.

■ Szotek Filtration - Vacuum Belt Filtration technology

0.5m² to 100m² robust, efficient and cost effective Vacuum Belt Filters.

■ Flocculant and Reagent Plants

A full range of automatic and manual make up and dosing plants from 0,5 to 250 kg/hr. Novel continuous packaged make up and dosing systems.

■ Filmac S/L Filtration - Automatic Filter Presses

Automatic Filter Presses with plate sizes from 300mm to 2000mm. Filmac's unique CRS system allows the filter unit to discharge cake without operator attendance.

■ Spintek Filtration - Carbon Filters, Coalescers, Dual Media and Co-Matrix Filters

Over 100 Spintek installations exist worldwide in various aspects of solvent extraction.

■ Solidorg - Coalescing Filters and Inclined Plate Settlers

A patented coalescing plate for coalescer packs and inclined plate settlers used for efficient separation and the removal of entrained oils and solids from aqueous streams.

■ New Logic International - Vibratory Shear Enhanced Processing (V-SEP)

A patented, fouling resistant vibrating membrane filtration system called V-SEP. The vibratory shearing action produces high filtration rates in separations ranging from low molecular weights up to 30 microns.

■ Applied Process Technology - Continuous Gravity Sand Filtration

Continuous backwash sand filters with filter areas from 0.5m² to 8m². The filter media is continuously backwashed allowing for uninterrupted filtration.

■ OCM - Twin Wire Belt Presses & Linear Belt Screens

A wide range of Belt Presses and Linear Belt Screens used for the dewatering of various industrial sludges.

■ Septor Technologies - Counter Current ION Exchange

Counter current ION exchange and chromatographic separation systems. Septor's process efficiency is unrivalled compared to conventional fixed bed systems.

■ Bokela - Vacuum and Pressure Disc Filters

Vacuum and Pressure Disc filtration technology with the addition of steam injection for further drying of the filter cake. Bokela specialises in the retrofit of existing installations to improve throughput and efficiency, with installations of filters from 2m² to 280m².

■ Waterex – Pinned Bed Clarifiers

Deep cone Pinned Bed Clarifiers for the generation of high quality overflows &/or high-density underflows. The Waterex unit offers a combined ultra high rate thickener and pin-bed floating media filter all in one vessel.

■ Fixed Bed Ion Exchange Systems

Fully assembled skid mounted units with full instrumentation and control.



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