

Roxia Ceramic Disc Filter™

Highly efficient filtration & lowest energy consumption

Roxia Ceramic Disc (CD) Filter™ requires low investment and delivers clear filtrate with dry cake. Compared to conventional vacuum filters, it consumes approximately 90 % less energy. Roxia CD filter operates continuously with high capacity and is cost-efficient solution for many concentrator and tailings processes.



Roxia CD filter's continuous operation principle simplifies automation, operation and improves reliability.

Roxia Ceramic Disc Filter performs extremely well in copper tailings filtration.

Roxia Complete Filtration Solutions

Roxia delivers long-term solutions to maximize your production, reduce downtime and lower total costs. Roxia experts provide you with the whole package:

- × Detailed analysis of process and filtration testing
- × Equipment selection and sizing according to the test results and practical experience
- × Optimizing filtration performance
- × Close cooperation and full support at delivery, installation and start-up
- × Complete service through entire filter life cycle

Applications for Roxia Ceramic Disc Filters

Concentrates:

- × Iron
- × Copper
- × Zinc
- × Gold
- × Phosphates

Tailings:

- × Iron
- × Copper
- × Molybdenum
- × Phosphorus
- × Quartz sand

BENEFITS

- ✓ High capacity & excellent process results
- ✓ Low investment costs
- ✓ Low energy consumption
- ✓ Reliable operation & high availability
- ✓ Complete lifetime support by Roxia filtration experts

Better Results with Lower Investment

- ✗ **High capacity:** filtration capacity of Roxia Ceramic Disc (CD) Filter can be up to 2000 kg DS/m² per hour. This equals to 240 tons per hour with a single unit.
- ✗ **Continuous operation principle:** simplifies automation, operation and improves reliability. Process material flow is even and constant which makes it easier to manage.
- ✗ **Energy savings:** requires significantly less installed vacuum power. Cuts down up to 90 % of energy costs compared to conventional vacuum filters.
- ✗ **Clearer filtrate and drier cake:** filtrate solid content is on average less than 20 mg/litre. Other kinds of filters usually have a higher filtrate solid content from several hundred milligrams to even a few grams per litre.

Filter name	Filtration area m ²	Disc area m ²
Roxia CD-15	15	3
Roxia CD-30	30	3
Roxia CD-45	45	3
Roxia CD-60	60	6
Roxia CD-120	120	6

Other sizes are available upon request.

Enhance Process with Smart Filtration

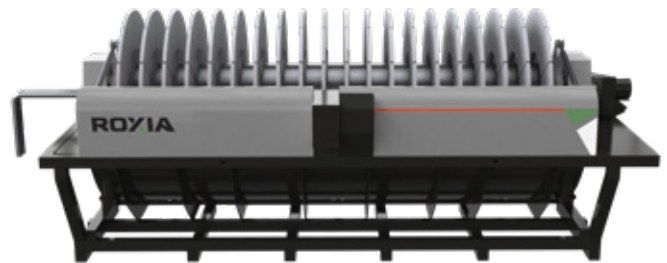
Roxia connects the filters to the Roxia Malibu™ online portal and enables remote monitoring of performance.

With Smart Filtration, operators can optimize filtration process, increase production volume and detect failures before they even occur. All that can be done from anywhere with any computer, smart phone or other handheld device with internet connection.

We Are Here to Help

Roxia has more than 40 years of experience in filtration, elastomer technology and technical textiles. Through the acquisition of Spare Parts Depot, Inc. and NovaTek Filtration, we re-entered the filter business and started manufacturing Roxia Filter Press and Ceramic Disc Filter. We care and want to help you by offering our professional support.

“ Cost-efficient: Roxia ceramic disc filter consumes approximately 90% less energy ”



Capacity of Roxia Ceramic Disc Filter is high: up to 2000 kg DS/m² per hour.



Roxia troubleshooting tools detect abnormalities in the process and automatically send alarms via email.