

# Roxia Smart Filter Press™

The next generation of filter presses

Roxia Smart Filter Press™ is a sophisticated little giant reaching up to 10 times higher capacity compared to conventional recessed filter presses of the same size.

Roxia Smart Filter Press (SFP) has various new and innovative features including fully automatic cake discharge and trouble-free operation without operator involvement. Unique design with smart self-monitoring system makes the SFP filter the safest and the least labour demanding filter press at the market.



## BENEFITS

- ✓ Fully automatic operation with enhanced safety
- ✓ High capacity with minimized footprint
- ✓ Lower operation & maintenance cost

*Roxia SFP, the next generation of filter presses.*

## New degree of automatic operation

- × All stages of operation are fully automated.
- × Unmanned availability above 98 %, only periodical inspections required.
- × For safety and performance filter is equipped with several error detecting functions.
- × Optionally with Roxia Malibu™ online portal for remote monitoring and performance analysis.

## Clean and safe

- × Filtration with gasketed filter plates behind enclosed and interlocked doors:
  - × No slurry sprays.
  - × No human contact with filter cakes or fumes.
  - × No operator involvement near moving parts.
- × Self-diagnostic in each filtration cycle:
  - × Leak-testing before each filtration cycle ensures cleanliness of the filter in traditionally dirty applications.

## Low maintenance and low environmental impact

- × Gentle and optimised process cycle minimises consumption of utilities as well as amount of required wear & spare parts.
- × Advanced washing system provides extra mileage for filter cloths.
- × Automated failure analysis supports preventive maintenance.
- × Advanced diagnostics and remote support enhance troubleshooting.

## Roxia Complete Filtration Solutions

Roxia has more than 40 years of experience in filtration technology and offers reliable solutions and complete professional service:

- ✗ Detailed analysis of process and filtration testing.
- ✗ Sizing according to the test results and practical experience.
- ✗ Optimizing filtration cycle and performance.
- ✗ Maximizing filtration process output.
- ✗ Selecting and sizing of auxiliaries.
- ✗ Service support through entire filter life cycle.

## Typical applications for Roxia Smart Filter Press:

- ✗ Flue gas desulfurization (incinerators)
- ✗ Process water recycling in:
  - ✗ Metal finishing
  - ✗ Electrochemical machining (ECM)
  - ✗ Concretes
  - ✗ Industrial effluent treatment
  - ✗ Municipal sludge dewatering

Filter size	Filtration area, m <sup>2</sup>	Plate format, mm	Number of chambers	Filter volume, l
Roxia SFP 470 1 GM32	1,28	470 x 470	4	16
Roxia SFP 470 3 GM32	3	470 x 470	10	40
Roxia SFP 630 6 GM32	5,9	630 x 630	10	86
Roxia SFP 800 10 GM32	9,9	800 x 800	10	154
Roxia SFP 1000 15 GM32	14,9	1000 x 1000	10	238
Roxia SFP 1200 22 GM32	22,3	1200 x 1200	10	365

## Enhance process with integrated Smart Filtration

Roxia SFP filter can be connected to the Roxia Malibu™ online portal to remotely monitor and analyse performance. With Smart Filtration operators can optimise filtration process, increase production volume and detect failures before they even occur. All that can be done from anywhere with computer, smart phone or other handheld device with internet connection.

