Gyratory Crushers
Cone Crushers
Low-Speed Sizers
Gyratory Crushers
Krebs Hydrocyclones

Spiral Classifiers
Pumps & Valves

millMAX® Pump

Diaphragm Pumps

Valves
Tailings Thickeners

Traction Thickeners

Paste Thickening

E-Cat® Clarifier Thickeners
World leader in thickener design and installation for big plants

125m Traction Thickener – Collahuasi, Chile
Feed Dilution – Proven Performance for High Capacity Minerals Thickeners
E-Volute Next Generation Feedwell
Andina 43 m HDT

25,000 tpd, 68 wt% underflow
Deep Cone Paste Thickener
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(12) 24 m DCTs in construction at SCM
96,000 tpd
40m Deep Cone Paste Thickener
In-Ground Installation
Two units– China Project, Copper Tails
17,700 tpd each
65-67 wt% underflow
K = 275
DEEP CONE PASTE THICKENERS
40m – CU TAILINGS
Claridisc Filters
SOD Filters
Horizontal Belt Filters
Disc Filters
Pan Filters
Vacuum Filtration

Drum Filters
SOD Filters
Claridisc Filters
- Used on Finer Material
- 0.25 – 0.5 mt/hr/m²
- 75 - 150 mt/hr per filter
- Feed 60 wt%
- Cake Moisture 15-30 wt%
- Gold Production
- 0.36 mt/hr/m²
- 60 mt/hr per filter
- Feed 65 wt%
- Cake Moisture 15 wt%
Putting it Together - PGM Backfill

- **Paste Thickener**
  - 12 m diameter
  - Flotation tails
    - 125 mt/hr
  - 25 – 30 wt% feed
  - 65 – 68 wt% uf

- **Horizontal Belt Filter**
  - 72 m² area
  - 72 wt% solids
Surface Dry Cake Deposition

- Water Recovery
- Environmental Permit Requirements
- Flowsheet optimization
  - Filter
  - Thickener
  - Mobile Staker
- Rosemont
- Gindalbie
- CL Mining
- Moly Mines
- Coal Refuse
- Fly Ash
- Used on Coarse Material
- 1 - 4 mt/hr/m²
- 250 - 1000 mt/hr per filter
- Feed 60 wt%
- Cake Moisture 15 – 20 wt%
- Fly Ash
- 1.0 mt/hr/m²
- Feed Solids 40 wt%
- Cake Moisture 25 wt%
- Cake Staked in Lifts and Capped
6.5M273 Filters
- Largest Minerals Filter Press
  - (14) 2x2 AFP Filters
  - 100,000 mt per day
  - 65 % feed solids
  - 16 % cake moisture
- **Paste Thickener**
  - 200 t/hr
  - 20 m Diameter
  - 30 wt% feed solids
  - 50 wt% u/f solids

- **2x2 Filter Press**
  - 67 t/hr/filter
  - 120 Chambers
  - 15 Bar operating pressure
  - 70 – 75 wt% cake
Material Handling

Mobile Stackers

Belt Conveyors

Mine Hoists

Pipe Conveyors