

## Mine dewatering

### Mining

Mine dewatering often constitutes one of the most critical support systems in underground and open pit mines. While pumps represent the heart of each mine dewatering system, the water distribution system comprised of sumps, settlers, piping, and slimes handling equipment also play an essential role in the continued operation of the dewatering system.

Whether a clean water or dirty water system is desired, our specialists have experience with both and can help you select the optimum type for your operation or project. Upgrades to existing systems, such as pump retrofits or settler modifications, can also be provided.

Integrated within the mine design group, our dewatering specialists can provide the following design and consulting services:

- High-pressure shaft or decline piping in accordance with international codes
- Piping materials and coupling type selection
- Compensation systems for management of temperature expansion/contraction and ground movement in vertical shafts
- Pipeline stress analysis
- Piping transient analysis and pressure relief or surge anticipation systems
- High-lift (dirty water) positive displacement pump installations
- High-lift, high volume (clear water) multi-stage centrifugal pump installations
- Pumping system retrofits
- Multi-stage cascading systems
- Mobile skid-mounted temporary and permanent systems
- Settler and high-rate clarifier design
- Mud / slimes handling using filter-presses or positive displacement pumping
- Pumping control systems
- Debris filtering and de-gritting systems
- Engineering from concept through EPCM installation and commissioning
- System procurement
- Operations support for existing installations
- Pump performance test witnessing
- Valve selection



Dirty water – positive displacement pumping system



Dirty water – portable single-stage centrifugal pumping system

#### Contacts

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