



Applications

GEHO® Total Solutions offers engineered solutions for customers' slurry mixing and transportation systems.

The services can range from basic engineering support to turn key projects. The heart of the system is a GEHO® positive displacement pump (piston, piston diaphragm or hydraulic driven pump) used for transportation of slurry.

GEHO® Total Solutions can be applied in systems described below.

Tailings

Tailings pumped to a disposal area, using High Concentrated Slurry Disposal (HCSD) principle, with slurry spreading over the disposal area by gravity, without the release of make-up water. Slurry dries or hardens within a relative short period of time resulting in a stable stacking area.

- Solids concentration typically ranging from 50% to 80% by weight, saving high amounts of water.
- Pipeline transportation distance up to 20 km using one single pump station.
- Performance battery limits for thickener application from thickener outlet to the discharge point at disposal area.
- Performance battery limits for ash tailings from ash silo take off to discharge point at disposal area.

Mine backfill

- System duties defined by others (engineering company, EPC contractor, end user).
- Paste backfill slurry pumped into underground mine stopes.
- Paste backfill hardens out faster as compared to other backfill methods and therefore mining operation can continue at a faster pace. Less water and energy is required for mine backfill operation. In addition mining operation becomes more safe due to increased stability of the hardened paste backfill.

Mine dewatering

- System duties defined by others (engineering company, EPC contractor, end user).
- Unsettled mine water pumped to the surface, no requirement for underground clarification.
- Single stage lifts up to 2.5 km are possible.

Pump station

- System duties defined by others (engineering company, EPC contractor, end user).
- Multiple PD pumps operating on one pipeline.
- Pressure pulsation limitation and pipeline vibration analysis can be included in the engineering package.

If required hardware can be supplied from one single source taking guarantee for the performance of the pump station. (all data to be considered typical)

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