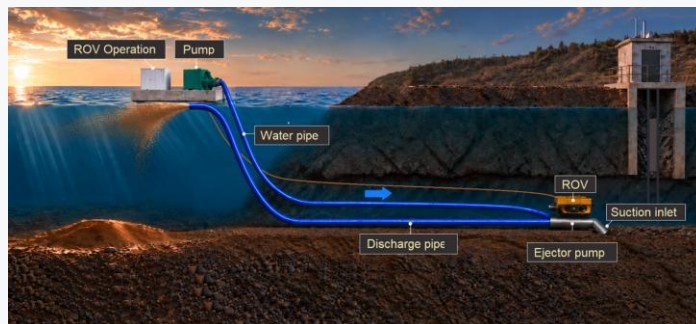


SediCon Dredging inside tunnels

ROV-assisted ejector dredging for submerged pressurized tunnels

How it works

- The ejector dredge removes sediment inside pressurized tunnels while the pump remains on a raft in the reservoir.
- The dredge and pipes are neutrally buoyant and operated by ROV, proven 200 m into a pressurized tunnel at 30 m water depth.
- A double suction head and flexible discharge pipes allow controlled removal of sand, silt and gravel.
- Real-time camera feedback supports accurate positioning and monitoring.



ROV-assisted ejector dredging inside a submerged tunnel



Surface setup with pump system installed on floating platform

Why it matters

- No dewatering and no human entry into the tunnel are required.
- Compact, robust equipment gives high sediment transport capacity in confined areas.
- The solution can be adapted to tunnel geometry and site conditions.



Dredging in fully submerged tunnel

Environmental benefits

- Fully submerged operation
- No tunnel or reservoir drawdown
- Reduced disturbance and footprint
- Controlled sediment removal
- Supports uninterrupted operation

Best used when

Sediments have accumulated in a pressurized or submerged tunnel and removal must be carried out safely without draining the tunnel or sending people inside.

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.