

SediCon HydroSuction Dredge

Gravity-powered sediment removal without interrupting power generation

How it works

- Uses available head between reservoir and outlet elevation to pump sediments by hydrosuction.
- Outlet can be routed through the dam or by siphon over the crest or spillway, or through a separate tunnel.
- Patented suction head delivers high capacity - from about 50 m³/h to thousands of m³/h.
- Reservoir operation and power production can continue while dredging is in progress.



HydroSuction principle



High-concentration outflow

Why it matters

- Handles a wide range of sediments - from cohesive clay to sand, stones and organics.
- Few moving parts support high reliability, simple operation and low maintenance cost.
- Digital platform available for automation, remote operation and monitoring.
- Helps meet environmental restrictions with fewer personnel on site.



Remote operation platform

Environmental benefits

- Low water consumption
- No fuel use - gravity powered
- No pollution to the water body
- Reduces CO₂-intensive maintenance activities
- Returns sediment load to the river closer to the natural regime

Best used when

You need reservoir sediment removal with low operating cost, minimal interruption and strong environmental performance.

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.