



# SediCon®

Removing sediments



- **Recovery and maintenance of reservoir volumes**
- **Remote and automatic operation**
- **Continuous cleaning of desanders**
- **Re-opening of bottom intakes**
- **Automatic removal of sediments from intakes**
- **Sediment consultancy and design**

SediCon AS, Sluppenveien 19, 7037 Trondheim, Norway, +47 73 52 93 00, [post@sedicon.no](mailto:post@sedicon.no), [www.sedicon.no](http://www.sedicon.no)

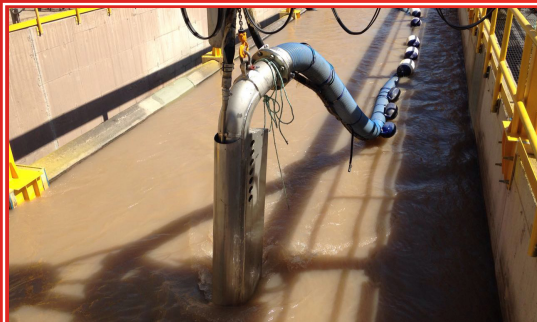




SediCon Dredge / Ejector Dredge.



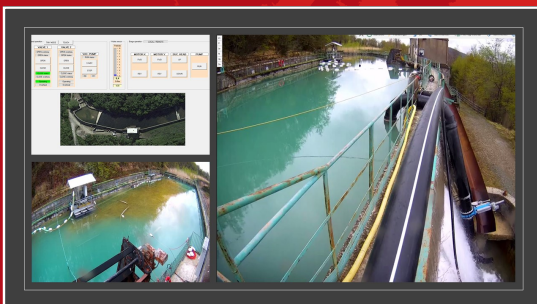
SediCon Sluicer.



SediCon Desander Dredge.



SediCon Gravel Excluder.



SediCon Digital Platform.

# Technologies

## SediCon Dredge

*Removes sediments from reservoirs.*

- Gravity powered hydrosuction system.
- Patented suction head for self-balancing high concentration and low water consumption.
- Jetting system and unrestricted flow to handle any type of sediments.

## SediCon Ejector Dredge

*Relocation of sediments.*

- Complemented with ejector pumps to relocate sediments within the reservoir.
- Maintains the main benefits of hydrosuction dredging.

## SediCon Sluicer

*Removes sediments from desander, sandtraps and tunnels.*

- Gravity powered hydrosuction system.
- No movable parts.
- Extremely simple operation.
- It can be designed for any capacity.

## SediCon Desander Dredge

*Removes sediments from forebay and desander.*

- Gravity powered hydrosuction system.
- Same principles as for the conventional dredge: self-balancing concentration, jetting system, unrestricted flow.

## SediCon Gravel Excluder

*Removes sediments from intakes.*

- Gravity powered hydrosuction system.
- Automatically activated during floods.
- Designed to prevent blocking of the system.

## Digital Platform

- All our systems can be digitalized for remote and/or automatic operation.
- Remote operation from a local control station or from any PC with Internet access.
- Control of concentration, water temperature, O2, etc.

# Advantages

## **Removal of any type of sediments.**

Hydrosuction allows the removal of gravel and stones. Besides, our technologies include a pressurized water injection system that can disintegrate compacted and cohesive material.

## **Easy operation, low maintenance and operating cost.**

As it does not have large motors or pumps, SediCon equipment can be operated easily and requires low maintenance and low operating costs.

## **Operation does not interfere with power generation.**

No flushing is required to remove sediments, allowing continuous operation of the power plant while removing sediments.

## **High availability and reliability.**

Our technologies have been operated continuously for more than 10 years with 99% availability.

## **Environmentally friendly solution.**

A continuous and controlled sediment removal resembles the natural transport of sediments in the river before the construction of the hydroelectric plant. Additionally, there is zero risk of fuel spills and very low CO2 emissions.

# Recent Projects

**Alfalfal II, Chile.** Three SediCon Desander Dredges for El Volcan intake, and one SediCon dredge for Las Lajas forebay.

**Tysso, Norway.** One large SediCon Gravel Excluder, capable of removing rocks and boulders up to 1 m diameter.

**Barroso, Colombia.** SediCon desander dredge adapted to remove sediments in front of the power plant intake.

**Necaxa, Mexico.** SediCon Ejector Dredge to relocate sediments within the reservoir and recover the bottom gates of the intake tower.

**Deralok, Iraq.** Supply of SediCon Sluicers to remove sediments from the power plant's desander.



Alfalfal II Desander.



Tysso Intake.



Barroso Intake.



Necaxa discharge.



Deralok Desanders.



## Contact us!

SediCon AS is a supplier of proven and reliable sediment handling solutions. With in-depth knowledge and in-house developed technology, SediCon can increase reservoir storage, reduce turbine wear and thus increase the production. Sediments are removed in a controlled, environmental friendly way, without external energy input. Successful projects all over the world verifies functionality under all conditions.

SediCon AS was established in Trondheim, Norway in 1999 and has offices in Costa Rica, **Ecuador** and Norway as well as representatives in Africa/Rwanda, Canada, Ecuador, Guatemala, Iran, Japan and Latin America.



**SediCon®**  
Removing sediments

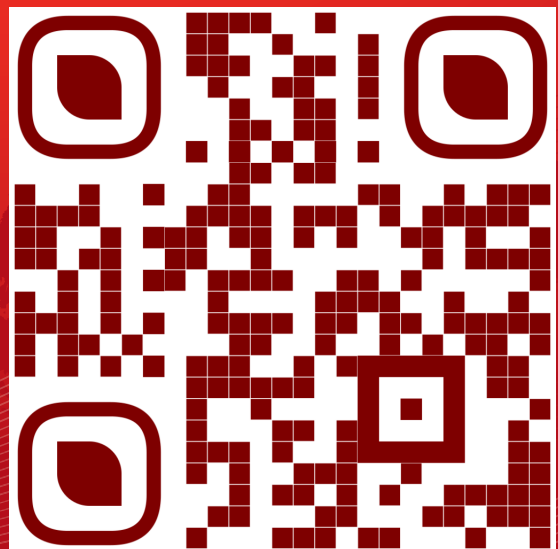
**SediCon AS, Head Office**  
Sluppenveien 19, 7037  
Trondheim, Norway.  
Tel: +47 73 52 93 00  
e-mail: [post@sedicon.no](mailto:post@sedicon.no)

**SediCon Latinoamérica S.A.**  
P.O. Box 1348-1200, Heredia,  
Costa Rica.  
Tel: +506 22 39 38 04  
e-mail: [post@sedicon.no](mailto:post@sedicon.no)

### We are certified.



### Scan for more information.



[www.sedicon.no](http://www.sedicon.no)