Cost effective and environmentally friendly reservoir dredging
Sediment removal systems for all sizes of desanders
Intakes, rock traps and customized solutions
Consultancy and design

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Extreme sediment loads in rivers are among the major problems related to development of water resources. Reliable and effective systems for sediment removal will therefore be a key element for successful use of water resources. The groundbreaking technology of the SediCon Dredge makes it the perfect choice for restoring and maintaining reservoir capacity.

The SediCon Dredge is a gravity powered hydrosuction system. The patented suction head ensures continuous high sediment removal capacity and low water consumption. Due to efficient jetting and unrestricted flow, the SediCon Dredge can handle a wide range of sediments; from cohesive clay and organic material to gravel and stones up to 350mm.

The SediCon Dredge:
- Removes all types of sediments
- Ensures high capacity and easy operation
  High suction capacity and low water consumption. Typical average capacity range from 50 m³ cohesive sediments per hour for 200mm dredges and up to 1000 m³ per hour for sandy materials dredged with a 500mm dredge.
- Requires low investment & operation cost
  Few movable parts ensure reliability, easy operation and low maintenance costs.
- Does not affect reservoir operation
  With SediCons unique technology the reservoir can continue to operate and produce power, while our dredge is operating, as water levels and water quality is not affected.
- Gravity powered and environmental friendly solution
  The SediCon dredge is today the most environmental friendly solution in the market – it uses gravity as driving force and gives full control of when and where sediments are discharged. No pollution is spread to surrounding water.

Reference projects:
- 70 MW Banja Dam installation, 2016
- 40 MW El General, Costa Rica, 2015
- 18 MW Dona Julia, Costa Rica, 2012
- 47 MW El Canada peaking reservoir Guatemala since, 2011
- 1,3 MW Nagoro inatek cleaning, Japan, 2008
- 108 MW Malana peaking reservoir, India since, 2005
SediCon Sluicer

The groundbreaking technology of the SediCon Sluicer makes it the perfect choice for removing sediments from desanders and tunnel sand traps, especially since it does not interfere with power production.

The SediCon Sluicer is a gravity powered sediment removal system for desanders and tunnel sand traps of any kind. The SediCon Sluicer has no movable parts, operation is extremely simple and it can be designed for any capacity. Our largest installations can remove 25,000 ton Sediments per hour.

The SediCon Sluicer:

- **High capacity and low water consumption**
  Only a few cubic meters of water is needed to remove each ton of sediment.

- **Ideal for all desanders:**
  New desanders can be customized and optimized and old desanders can be retrofitted. The SediCon Sluicer has no movable parts and is ideal for tunnel sand traps.

- **Does not interfere with power production**

- **Sediments can be removed at any time without interrupting the water supply.**
  Operation is extremely simple, a valve has to be opened, either automatically or manually. The SediCon Sluicer does not require energy input as gravity is the driving force; this allows operation also in underground sand traps.

- **Removes all types of sediments:**
  The SediCon Sluicer is able to handle all types of sediments. Fine and cohesive material is handled by using a sediment disintegration system, whereas the size of the coarse material is limited only by the size of the conduit.

- **Environmental friendly**
  Sediments release is controlled and gradual, and the only energy required is that for gates or electric actuators.

**Reference projects:**
- 2,6 MW Winkeltal, Austria, 2016-2017
- 6 MW Baner Sangam, India, 2016
- 1500 Coca Codo Sinclair desanders, 2014-2016
- 60 MW Khimti HPP desander, 2010
- 7 MW Cuyamel pressurized desander, 2007
- 60 MW Malana gravel trap, Nepal. 2000

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SediCon has broad knowledge of sediments and hydraulics, an unmatched pool of sediment handling experience, and cooperation with universities and research organizations. We are able to provide our clients with assessment of sediment problems and provide design solutions which ensures cost effective and sustainable solutions for Hydropower plants.

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, India and Norway as well as representatives in Africa/Rwanda, Canada, Ecuador, Guatemala, Iran, Japan and South-America.

SediCon supplies:
- Sedimentation studies
- Sediment sampling and analysis
- Sediment removal and reservoir operation strategies
- Desilting basin optimisation

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