FLOATING TRASH RACK CLEANER

Bringing our expertise to hydroelectric power

A Galilé group company
**Floating trash rack cleaner for fish-compatible water intake**

**Fish-compatible water intake**

- Innovation and environmental responsibility
  - European patented floating system
  - Archimedian buoyancy prevents tipping, and allows:
    - Cleaning of long lengths
    - Reduced forces for structural engineering
    - Reduced manoeuvring forces and thus smaller actuators
    - Reduced cross-section of arms and joints

- Fast and efficient
  - Load = 1 tonne
  - Cycle = 2 minutes

**Design**

- Kinematic calculations
  - Automatic calculation of arm lengths and kinematic positions according to rack shape

- Calculation of forces
  - Automatic calculation of forces in winch cables and structural engineering according to mass and acceleration

**Hydrodynamic bar racks with 20 mm spacing and "tadpole" profile for easier cleaning**

**OPERATING CYCLE**

- Trash rack cleaner in standby
- Flotation
- Floating operation
- Arm submerged by raising float
- Rack scraping
- Rack clearance
- Float moved along and lowered

**The use of cable winches coupled to variable frequency drives allows:**
- Fine control of acceleration and deceleration
- Elimination of all pollution risks (no hydraulic power pack)
- Reduced cycle times
- Reduced maintenance
- Optimisation of energy use, injecting energy produced by the retaining winch into the pulling winch

**Volume modelling**

- 3-D mechanical design process

- Finished elements
  - Optimal shaping of parts subject to greatest stresses
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