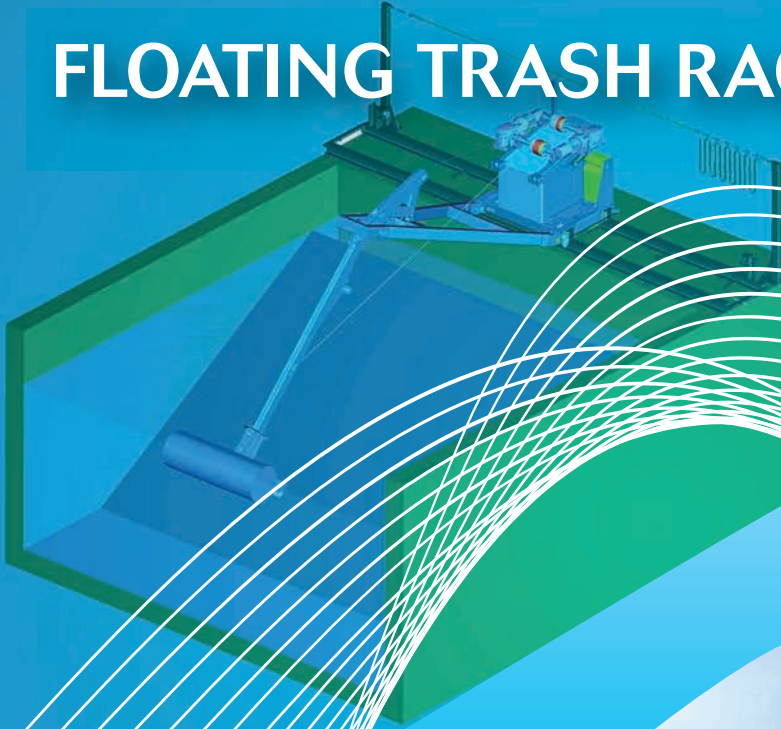




MA Industrie
Mécanique Automatismes

FLOATING TRASH RACK CLEANER



Bringing our expertise to
hydroelectric power

A Galilé group company

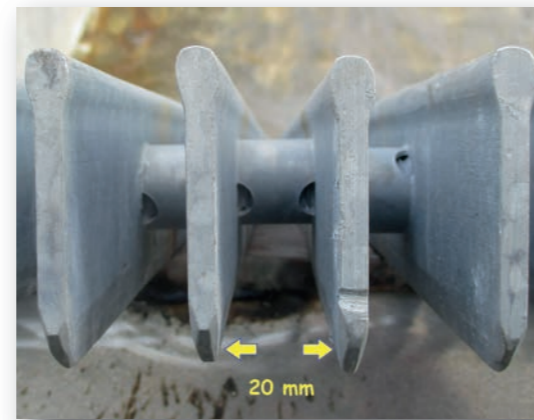
Floating trash rack cleaner for fish-compatible water intake



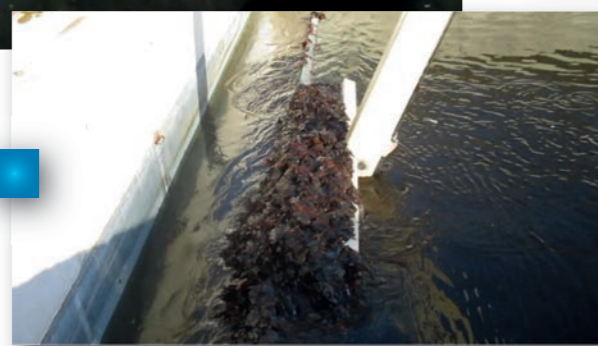
Fish-compatible water intake



Racks 26° to the horizontal with downstream outflow



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



Fast and efficient

Load = 1 tonne ;
Cycle = 2 minutes



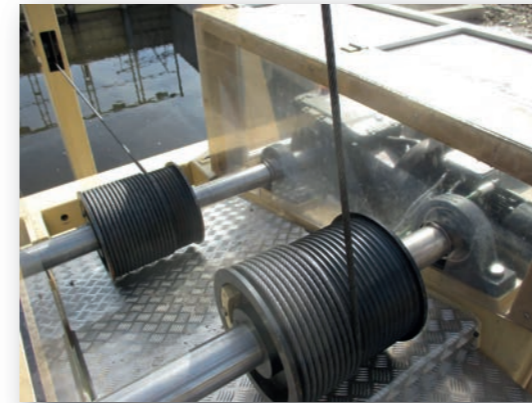
A Galilé group company

Innovation and environmental responsibility

European patented floating system.

Archimedean buoyancy prevents tipping, and allows :

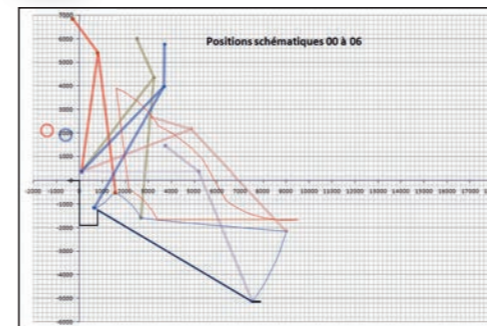
- Cleaning of long lengths
- Reduced forces for structural engineering
- Reduced manoeuvring forces and thus smaller actuators
- Reduced cross-section of arms and joints



The use of cable winches coupled to variable frequency drives allows:

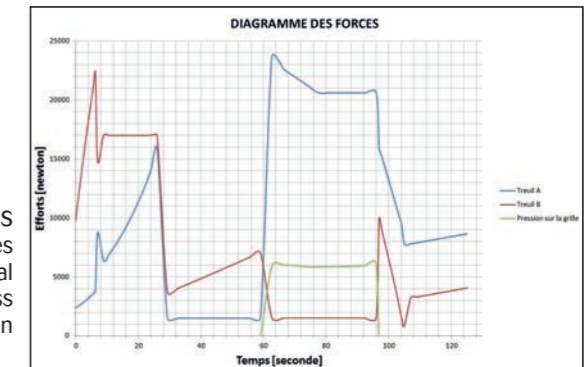
- Fine control of acceleration and deceleration
- Elimination of all pollution risks (no hydraulic power pack)
- Reduced cycle times
- Reduced maintenance
- Optimisation of energy use, injecting energy produced by the retaining winch into the pulling winch"

Design

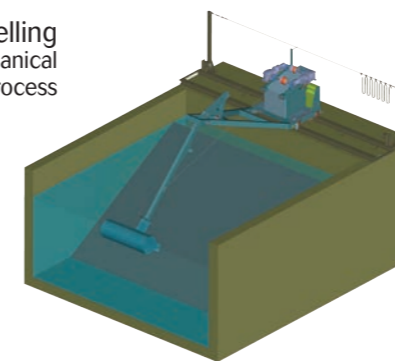


Kinematic calculations
Automatic calculation of arm lengths and kinematic positions according to rack shape

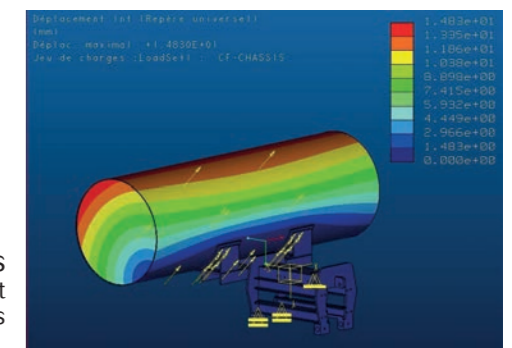
Calculation of forces
Automatic calculation of forces in winch cables and structural engineering according to mass and acceleration



Volume modelling
3-D mechanical design process



Finished elements
Optimal shaping of parts subject to greatest stresses



OPERATING CYCLE



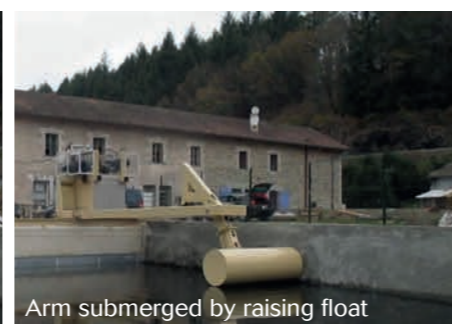
Trash rack cleaner in standby



Flotation



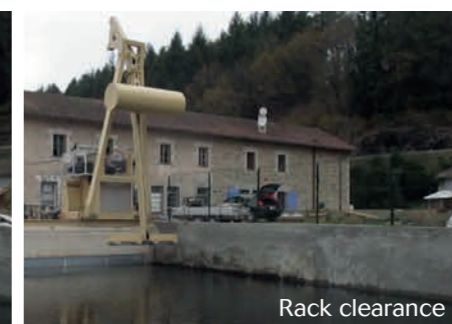
Floating operation



Arm submerged by raising float



Rack scraping



Rack clearance



Float moved along and lowered



www.mainindustrie.fr

2 rue du Vélodrome
BP 70203
F - 88211 REMIREMONT Cedex
Tél. +33 (0)3 29 62 46 66
Fax. +33 (0)3 29 62 27 11

FOR FURTHER INFORMATION
OR TO OBTAIN A QUOTE:

Contact: Sébastien HACHET
Mobile: 06 87 03 16 76
Email: shachet@mainindustrie.fr