



Dewatering of dredged  
sediment in dewatering bags

**Baleen RDS®**

The story of the Rapid Dewatering System



**BALEEN**

RAPID DEWATERING SYSTEM

## Dewatering of dredged up sediment in dewatering bags

Baleen RDS 'Rapid Dewatering System' is a sustainable and circular solution for the dewatering and storage of dredged up sediment out of watercourses, ponds, lakes and (inner-) harbours.

- Less space for storage needed on a limited surface
- Rapid dewatering process
- Beneficial use of dredged up sediment
- Decreased costs of transportation compared to disposal on landfill
- Not harmful for environment



## Baleen RDS is an overall solution

- For watercourses, ponds, lakes and (inner-) harbours
- Urban solutions or in the countryside
- Use of Cutter Suction Dredger
- Special Flocculent Unit
- Measure work dewatering bags



# The smart Baleen RDS process

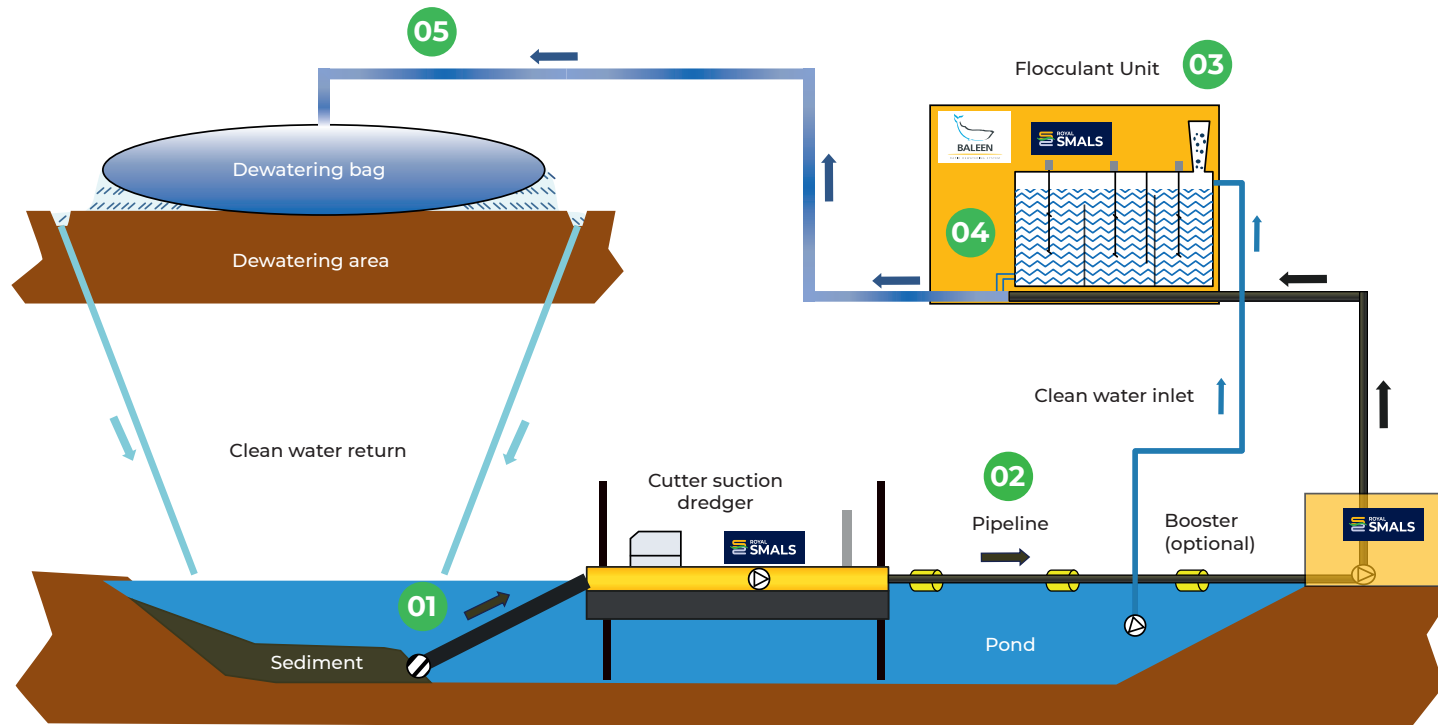
With specialistic dredging- and dewatering techniques we offer you a smart solution in several steps.

- 01** Dredging the superfluous sediment out of a watercourse, pond, lake or harbour
- 02** By means of a pipeline the dredged up sediment has been pumped to a flocculant unit

**03** Adapted to clients' wishes the flocculent is added, if possible bio-degradable

**04** Flocculent flocculates the silt particles. This speeds up the separation process between silt and water

**05** The silt mixes with water and continues its way to the dewatering bags where further dewatering takes place





“

Add value with Baleen RDS by smart ecological use of sediment in dewatering bags

**06** Clear outgoing water leaves the dewatering bags which causes a decrease in volume of the sediment up to a dry solid substance of approximately 50%

**07** The dried out sediment can be used as a basis for embankments, dykes, refill behind timbering or can be disposed of by a recognized processor



## A special sustainable solution

Our experts are, in cooperation with our customers, always searching for sustainable solutions.

- Baleen RDS projects; where possible bio-degradable flocculant is used
- Use of environmental friendly fuels
- Development and the use of bio-degradable dewatering bags

00 Cost saving process

00 Add valuing process

We focus on the circular approach with dredged up sediment.

- Stackable storage in dewatering bags
- Beneficial use in embankments, dykes, storage behind timberings
- Controlled dewatering process
- CO<sub>2</sub> decreasing by less transportation movements



## Well integrated process

With our experts and our laboratory we offer you excellent well prepared and - executed processes.

- Dewatering tests in a laboratory
- Decrease in volumes
- Choice for type of flocculent and type of dewatering bags, working space required
- Design dewater process
- Weather circumstances , tidal influence, season of execution will influence the results of dewatering

“ Smals is developing the sustainable application of biological degradable dewatering bags

You are looking for the possible total solution for the application of dredged up sediment from your watercourse, lake, pond or harbour? We would be pleased to accompany you on a site visit to explain the Baleen RDS process.



**Frits van den Boogaard**  
**Manager Business Development**  
**fvdb@smals.com**  
**+31 620747464**

Smals Dredging BV  
smals.com • info@smals.com • +31 485335170