



Mobile mud and sediment sludge dewatering

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A NEW DEFINITION OF DE-SLUDGING.

River and pond de-sludging can be implemented economically and ecologically only to a limited extent with current solutions. Site facilities often have very large space requirements, so that pond de-sludging is often impossible within city limits. In addition, the high sludge volumes result in significant removal and disposal costs. To counteract this, dewatering units from other sectors are often used. However, these not only result in high operating costs, but are also subject to high machine wear.

The latest system from SÜLZLE KLEIN offers a tailor-made solution. This innovative system is the result of a collaboration with the Swiss company UWT Swiss, and is quite impressive with its high throughput, minimal space requirements, and low operating costs.

THE PROCEDURE

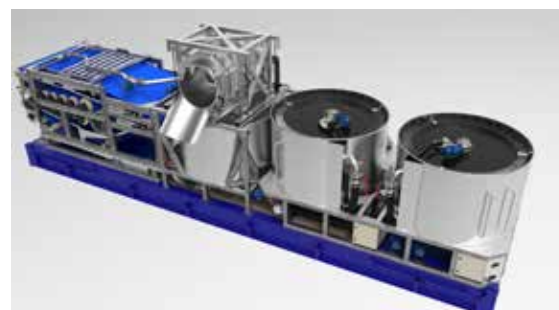
This machine combines two important phases of mud and sediment dewatering on a single 40" flat rack, with sludge separation and conditioning as phase 1, and sludge dewatering as phase 2. Coupled with a suction dredger, this results in a mobile and compact installation for mud and sediment dewatering.

THE OUTPUT

This process produces a transportable and storable sludge with a DS content of approx. 60 - 65%.



The latest system made by SÜLZLE KLEIN for mud and sediment sludge dewatering.



Sludge separation, conditioning and dewatering on a single 40" flat rack.

PROCESS DESCRIPTION

Phase 1:

1. Separation of coarse and fine material
2. Sand classification
3. Reactor component for binding the fines with admixture of precipitation aids
4. Sedimentation and discharge
5. Water quality control

Phase 2:

Sludge dewatering

ADVANTAGES:

- High throughput (>130 m³/h)
- Immediately transportable dewatered sludge (approx. 60 -65% DS)
- The entire unit requires only a 250 m² footprint
- Sludge separation, conditioning and dewatering on a single 40" flat rack
- Return water is subject to continuous quality control
- Low operating costs
- The automatic control system allows the entire process to be run by a single operator
- Quick installation with only a few steps
- The system is cohesive and subject to permanent automatic control
- No environmental impact to the waters and surrounding areas

