

# Kalis Dredging / Belgium

## Putzmeister



Sludge-processing unit with S-tube pump and hydraulic power pack powered by a diesel motor and fitted to a pontoon in a canal in Belgium

### Task

A canal in Belgium has been cleared of 500,000 m<sup>3</sup> of river silt. Boats have conveyed the removed silt to a landfill site on the banks of the canal.

A dredger filled three 350 m<sup>3</sup> barges with silt each day. The silt was conveyed via a vibration screen to our high density solids pump with S-transfer tube technology. The screen filtered out stones and foreign bodies larger than 100 mm. All foreign bodies smaller than 100 mm can be pumped by the Putzmeister high density solids pump without problems.

### Material transport

Our high density solids pump is installed on a pontoon together with a river-water cooled diesel power unit and pumps the silt to a landfill site 500 – 1000 m away. The power capacity of the hydraulic power pack is designed for a maximum delivery pressure of 100 bar, which corresponds to a distance of approximately 3000 m.

### Material

The material to be pumped is river silt with a very low water content.

### Plant equipment

- 1 KOS 2180 HPS
- 1 HA 240 diesel
- 1 control cabinet with PLC

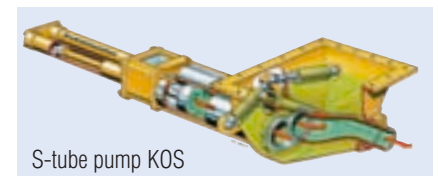
### Output / delivery pressure

The pump delivers approx. 100 m<sup>3</sup>/h at a delivery pressure of approx. 40 bar.

### Pipeline length / diameter

The pipeline has a nominal diameter of 200 mm.

The distance from the pump to the land-fill site is 500 – 1,000 m.



S-tube pump KOS



Sludge disposal site approx. 500 – 1000 m from the canal



Diesel hydraulic power pack installed inside the pontoon



Sludge disposal site after evaporation of excess water

### Market Technique Fields

Concrete Technology PCT · Mortar Technology PMT  
Pipe Technology PPT · Water Technology PWT  
Industrial Technology PIT · Belt Technology PBT  
Underground Technology PUC

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