

OPERATION

The effective separation and treatment of dissolved solids and sediments, which are a result of water remediation, can be processed by the CATFISH into high-quality mineral fractions.

Process step 1

The feeding material is directed onto the pre-screen of the CATFISH via a wash-in chute, mashed with water, and the oversize material is separated by a screening machine.

Process step 2

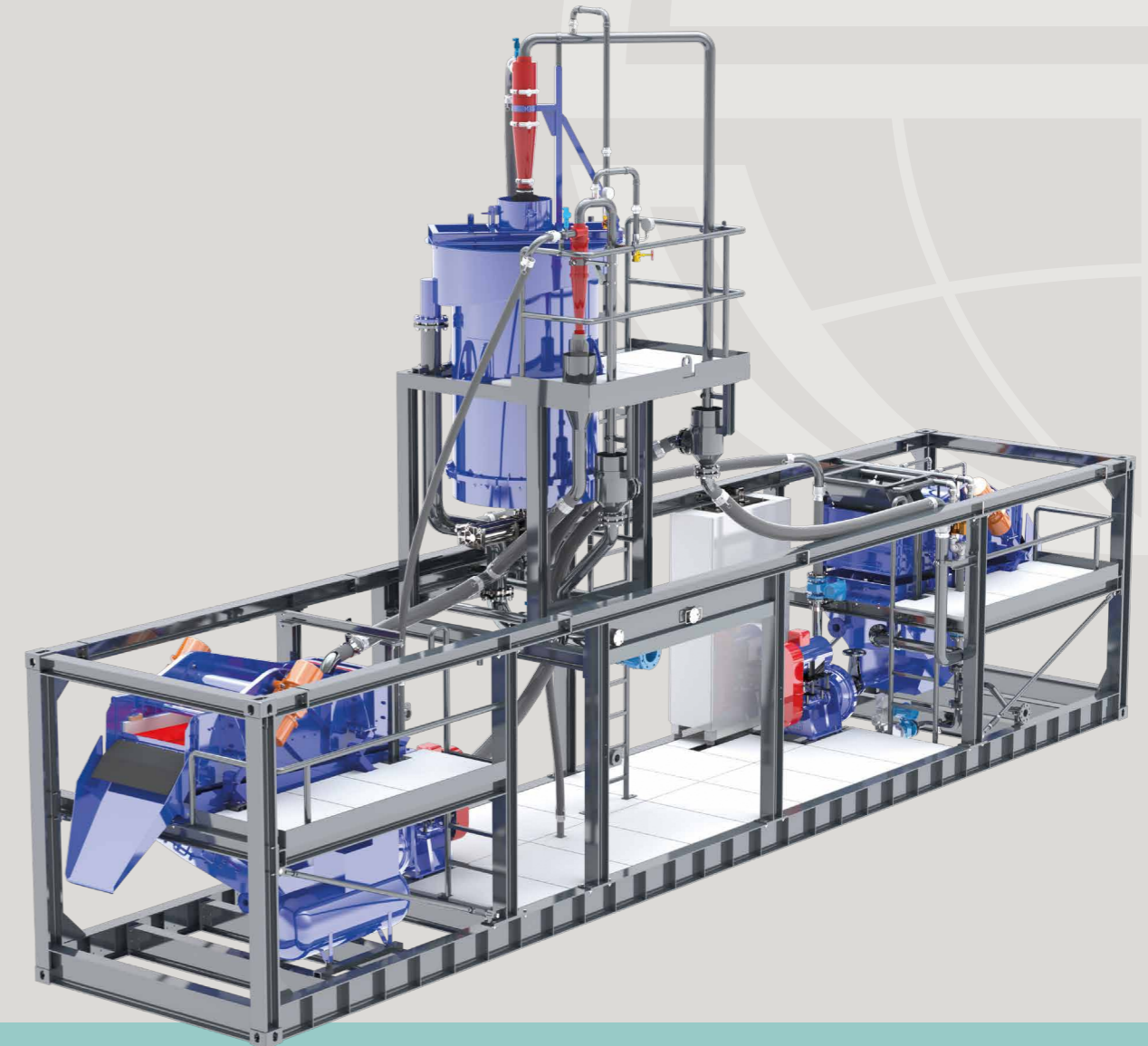
The cyclone pump conveys the screened material to the first cyclone stage. First light materials and finest particles are separated via the overflow of the cyclone and the underflow is thickened and transferred to the upstream sorter. The upstream sorter creates a fluidized bed by a constant upstream water flow, which flushes organic/light materials and finest mineral contaminants almost completely into the overflow.

Process step 3

The underflow of the upstream sorter (good product) gets dewatered and discharged with a dewatering screen-cyclone combination.

ENGINEERING
A BETTER WORLD

MAB CATFISH



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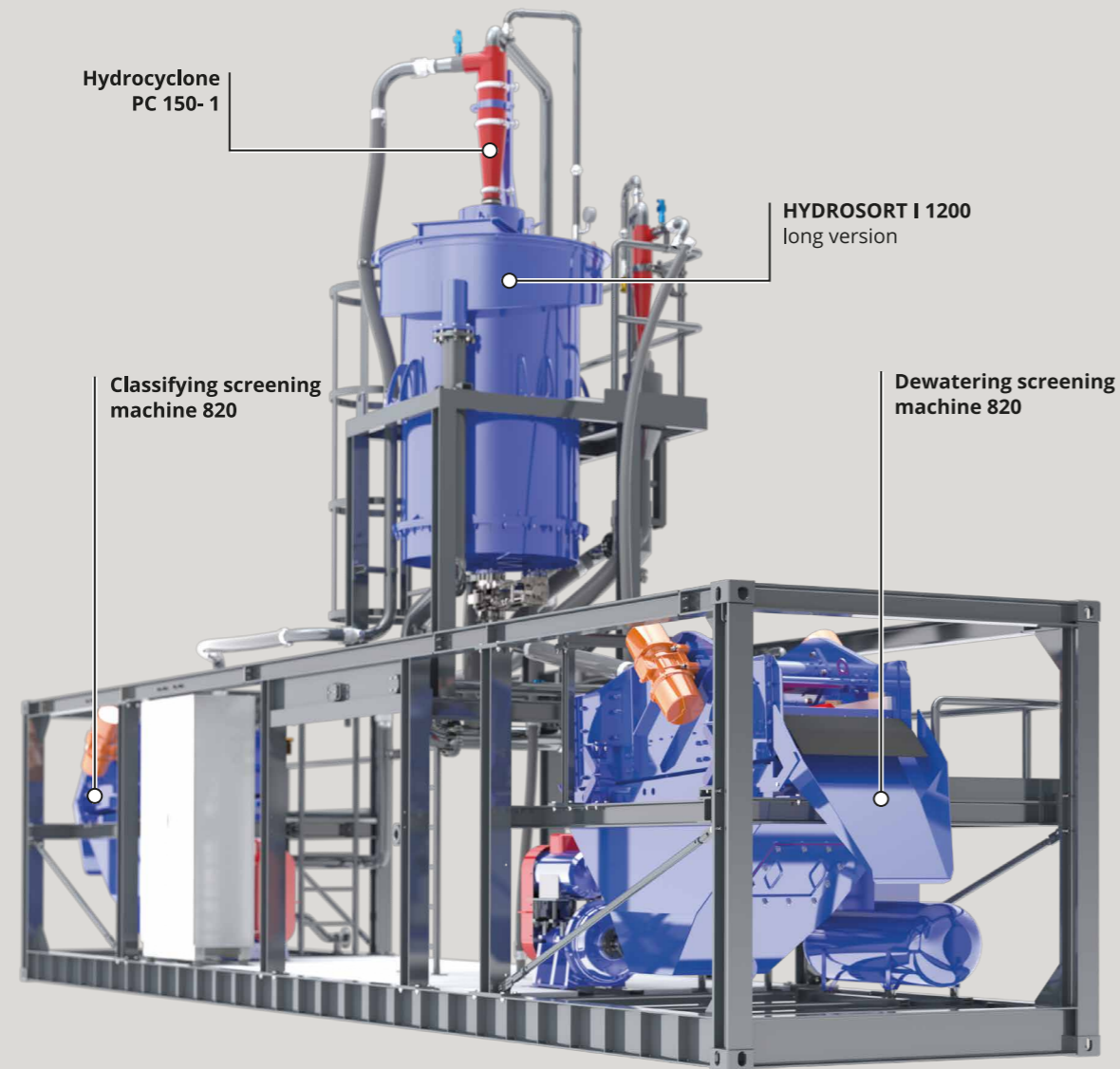


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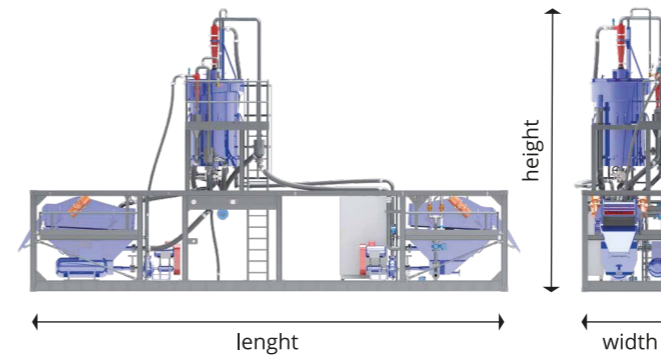
Customized to your requirements

MAB CATFISH

As a holistic solution, the MAB CATFISH comprises all necessary components for the optimal treatment of contaminated soils as well as river and harbor sediments. As a modular, expandable system in a 40" container, the combination of upstream sorter and proven screening machine technology is convincing and guarantees success for sediment flushing with a max. sludge content -0.063 mm for up to $50 \text{ m}^3/\text{h}$, with solids quantities of up to 15 t/h and a maximum particle size of 10 mm .



TECHNICAL DATA



Dimension/ Weight		
Transport length	mm	12.192
Transport width	mm	2.438
Transport height	mm	2.591
Transport weight	kg	15.000

Capacity		
Max. feed rate	t/h	15
Max. feed rate at 0 - 2 mm	t/h	10
Max. sludge content -0.063 mm Ma.	%	15
Max. feed volume	m^3/h	50
Max. density organic	t/m^3	1,2
Max. particle size	mm	10

Installed power (400V/50HZ)		
Pump 1	kW	11
Pump 2	kW	5,5
Compressor	kW	7,5
Classifying screening machine 2x 1,5 kW	kW	3
Dewatering screening machine 2x 1,5 kW	kW	3
Total (e.g. air conditioner optional)	kW	30
Required connected power	kVA	75

* Values were tested under laboratory conditions and may deviate depending on the application. (Particle size distribution, density and viscosity of the feed have a major influence).

AREA OF APPLICATION

Environment & Recycling

- Contaminated soils
- River sediments
- Harbor sediments

OVERVIEW

- Easy and fast assembly
- Compact, foldable upstream sorter
- Containerized frame for easy road and sea transport through (CSC- certification)
- Classification, washing, and dewatering combined in one application
- High-performance PU cyclones, each with full throughput for optimum separation results
- Modularly combinable with other Schauenburg components
- Extensive accessories available (see data sheet "Accessories")

SPECIFICATION

Plant type

Container with open steel frame incl. CSC- certification

Screening machine

Two combined screening machines (width 0.8 m, length 2.0 m) ensure the classification of the feeding material in the first process step and the dewatering of the processed material as the last step before discharge

HYDROSORT I

HYDROSORT I 1200 long version

Hydrocyclone stage

Hydrocyclones 1x type PC 150 – 1

Electrical equipment

Electrical equipment including wiring according to VDE. 400 V 50Hz

Control system

Control cabinet incl. SPS control (optionally extendable by touch panel)