

Bottom sampler 300 & 500



Seabed Bottom Sampler (SBS)

The SBS is a Pneumatic Hammer Corer which has to be driven by an air compressor of at least 2500 lit/min + 8-12 bar depending on water depth.

The system consists of a bottom frame and 2 guide posts on which the air hammer with core barrels is mounted. This system is easy to mobilize and operate.

SBS 300

The SBS 300 weighs approximately 400 kilograms and has a height of 4 meters. Therefore a small hoisting crane is sufficient to hoist the penetration device over the side of the pontoon or vessel and position it on the bottom. The hammer has a weight of 50 kilograms and beats with a frequency of 1400 hits per minute on the drill tube. The SBS 300 can acquire a bottom sample of 3 meters long.

SBS 500

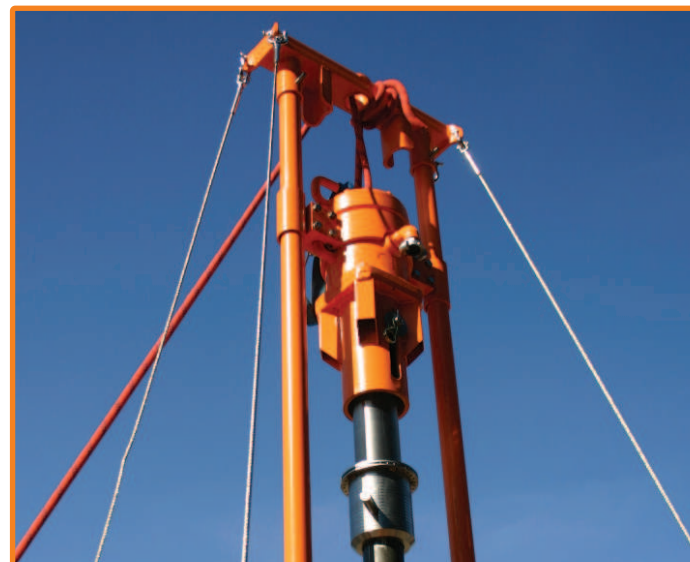
The SBS 500 weighs approximately 600 kilograms and has a height of 6 meters. The SBS 500 can acquire a bottom sample of 5 meters long.

Application

After the unit is placed on the seafloor, air is fed to the hammer driving the core-barrel containing the PVC core-liner into the seafloor. After recovery the vibration unit and core can be rotated in a horizontal position to facilitate the removal of the liner with the sample.

The standard range of vibrocorers includes 3, and 5 meter frames.

When the whole system is dismantled it can be easily transported.





Seabed Bottom Sampler specifications

The Bottom Sampler consists of the following component		
Frame	Ground plate (incl. four small pipes) Hoisting frame (incl. four middle sized pipes) Top frame (incl. two long pipes and vertical guiding posts) Tension wires Guidance clamp	
Coring system	Pneumatic hammer Hammerhead Corebarrel Stabbing shoe Corecatcher Liner Piston and piston wire	
Various	Hoisting cable Various tools Various air hose connectors	
Technical specifications		
	SBS 300	SBS 500
Transport weight (incl. Transport Box)	550 kg.	750 kg.
Transport box dimensions	392 x 115 x 35 cm	600 x 115 x 35 cm
Tow weight:	400 kg	600 kg.
Height	400 cm	600 cm
Width	230x230 cm	230x 230 cm
Power drive:	Air Compressor (not included)	Air Compressor (not included)
Air input:	2500 litre/minute minimum of 6 Bar	2500 litre/minute minimum of 6 Bar
Hammer frequency	1400/minute	1400/minute
Sample length	3 meter	5 meter
Soil types:	silt, sand and peat clay (limited penetration)	silt, sand and peat clay (limited penetration)

Specifications are subject to change without prior notification.

Contact us

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