

Bottom Water Sampler K/MT 420

The Bottom Water Sampler is designed for collecting water samples taken from different water heights above the sea floor.

Water sampling is carried out by 5 Niskin - sample bottles each at a volume of 5 liters.

They are horizontally attached to the revolvable middle axis and adjustable between 10 and 120cm above the bottom.

The axis of the Bottom Water Sampler is revolvably fixed to the outer rack and aligned with the current by a current vane before the touch-down on the sea floor.

The outer rack itself is equipped with two current vanes for turning the whole instrument in the current's flow.



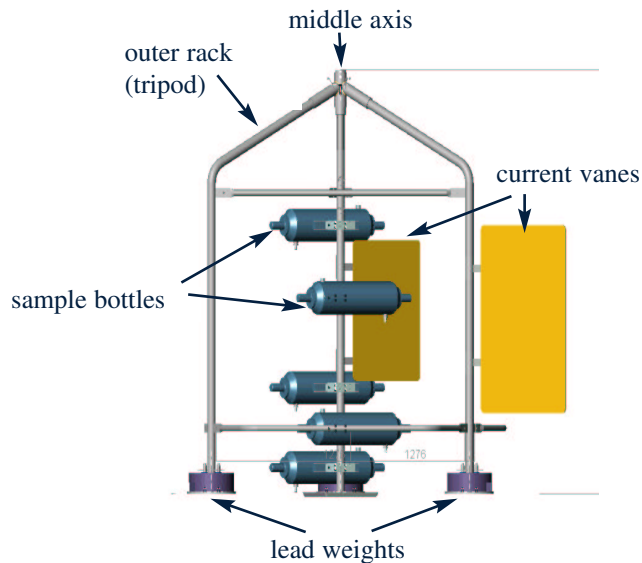
Dr. M. Zabel (University of Bremen):
BWS for biogeochemical investigation of the water-sediment surface



Technical Data

Release unit: The burn wire electronics bases on the electrolytic process. When landing on the sea floor a plate in the basic frame is pushed up. It then activates the autonomous release electronics which sets the corrosion wire (programmed with time delay) under voltage.

Current vanes: for aligning the instrument with the current
a.) one vane fixed to the middle axis
b.) two vanes fixed to the outer rack



Outer rack: tripod with lead weights
material: stainless steel (1.4571)

Weight: total: appr. 210kg
lead weights: appr. 90kg

Measurements: height: 1865mm
diameter: 1780mm

Max. operation depth: 6000 m

Bottle volume: 5 bottles each at 5 liters
material: PVC

Transport: easy demountable,
space saving transport

Product no.: K/MT 420

Article no.: 1045