

# Piston Corer



## Attention:

Please note that the Piston Corer can only be operated upon request. Request operations with the Piston Corer to AWI-Geology and AWI-Logistics in sufficient time prior to the cruise. Operations of the system require experienced scientific staff on board. The system is not operated by the ship's crew.

## Summary

Piston Corer, Kolbenlot: The Piston Corer recovers the stratigraphically longest sediment sections with up to 30m. A 1.5t head weight is mounted on top of a number of 5m long steel barrels that are filled with plastic tubes (diameter 90mm or 125 mm) attached to the barrels by a core catcher. A trigger arm is attached to the head weight, connected by a wire to a small 1m long trigger core extending to just beyond the end of the core barrel. When the trigger core penetrates the sea floor, the head weight is released and the piston produces a weak vacuum in the tube which causes the sediment being cored to enter and move up the tube without disturbing the sediment layers. When the corer returns on deck the plastic tubes are extruded and cut into 1m long sections.

Manufacturer	Kawohl Marinetechnik
Model	90mm or 125mm type
Serial No.	PS
Type	corer
REGISTRY-Link	<a href="#">REGISTRY (3195)</a>



## Contacts

Name	Institution	Role
Norbert Lensch	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Engineer In Charge
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## Documentation

- [Piston Coring \(Standard Operation Procedure, 13 MB\)](#)