

# PISTON CORER



OSIL

## Robust Sediment Corer with Improved Penetration

The increased penetration depth of the Piston Corer has made it one of the basic tools used in the study of marine sediments. Piston core samples are usually longer, less disturbed and more complete than those from gravity corers. The main advantage of a Piston Corer over the Gravity Corer is the greater length of core obtained. The action of the piston reduces internal friction and prevents plugging. Cores of 18m are possible in soft sediment and muds. The mechanical trigger enables the free fall distance to be adjusted via the length of cable from clamp to counterweight.

### FEATURES

- Up to 18m cores
  - Trigger arm release
  - Minimal 'down' time
  - Varying core lengths
  - Robust and easy to use
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- For use in soft, cohesive sediments at up to full ocean depth.
  - Stainless Steel or galvanised steel construction, depending on application and budget.
  - Corer lowered to seabed, where trigger arm mechanism releases corer for final free fall sediment penetration.

### APPLICATIONS

- Geological / Biological studies
- Marine chemistry
- Geochemical analysis
- Sedimentology
- Exploration
- Ocean floor processes
- Environmental Impact Assessment



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The OSIL Piston Corer is a well-established coring instrument which has been globally successful in achieving sediment samples. It is designed to take samples from soft, cohesive soils. Penetration of the seafloor is achieved by gravity only, meaning that it can be used in deep oceanic water without reliance on electrical input. A trigger arm mechanism releases the core and also controls the total distance of the free fall. The OSIL piston, core cutters and catchers ensure that the maximum potential core length is brought to the surface with minimal loss or disturbance.

Specifications	
Maximum Core Length	18m (6 x 3m core barrels)
Barrel Diameter	140mm
Internal Core Diameter	100mm
Trigger Core Length	2m (internal diameter 72mm)
Construction Material	Stainless Steel or Galvanised Steel, PVC liner
Total Weight	1500kg
Depth Rating	Full Ocean Depth



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