



OSIL
Environmental Instruments
and Systems

GIANT PISTON CORER

Robust Sediment Corer with Penetration Depth

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 up to 60m are possible in soft sediment and muds. The programmable acoustic release enables the free fall distance to be adjusted via the length of cable from clamp to counterweight.

- For use in soft, cohesive sediments at up to full ocean depth.
- Recovery rates greater than 95% achievable.
- Stainless Steel or galvanised steel construction, depending on application and budget.
- Corer lowered to seabed, where acoustic release mechanism triggers final free fall penetration.

FEATURES

- Up to 60m cores
- Programmable Acoustic Release
- Minimal 'down' time
- Varying core lengths
- Robust and easy to use



FOR FURTHER INFORMATION PLEASE CONTACT:

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APPLICATIONS

- Geological studies
- Marine chemistry
- Sedimentology
- Exploration
- Ocean floor processes

Technical Specifications

Maximum core length:

- 60m (10 x 6m core barrels)

Barrel diameter:

- 129-168 mm

Internal core diameter:

- 110 mm

Trigger:

- Programmable Acoustic Release

Construction Material:

- Stainless Steel or Galvanised steel
- PVC liner

Total weight:

- 4000-12000 kg

Depth rating:

- Full ocean depth



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