



**OSIL**  
Environmental Instruments  
and Systems

# BOX CORERS

## Reliable Corers that Collect Samples with Minimal Disturbance and Sample Contamination

The Box Corers are simple and reliable corers for sampling an area of 0.25m<sup>2</sup> (Mega Box Corer), 0.1m<sup>2</sup> (Box Corer) and 0.05m<sup>2</sup> (Mini Box Corer) of sediment with minimal disturbance and sample contamination. Its unique double shovel design allows easy access to the sediment for sub-sampling for subsequent scientific investigation. Box corers are widely used for sampling in biological, chemical and geochemical applications as the relatively large block of sediment provides a large well preserved sample.

The corers are easily deployed from a deck stand and lowered on a standard lifeboat no-load release, which activates after sediment penetration. The box is closed, top and bottom, by two closely fitting shovels, mounted on pivot arms. Removable weights allow the corers to be used successfully in a range of sediment types.

The Mini Box Corer is a quarter scale version of the standard Box Corer. This 'mini' version is constructed of aluminium and stainless steel to reduce its weight, thereby allowing deployment from smaller boats in the inshore environment.



### FEATURES

- Large box sample
- Minimal contamination
- Easy to use
- Reliable operation
- Rugged construction
- Well proven design

### APPLICATIONS

- Deep sea sediments
- Biological studies
- Geochemical analysis
- Environmental monitoring
- Interstitial waters
- Environmental Impact Assessment

**FOR FURTHER INFORMATION PLEASE CONTACT:**

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### Mega Corer Specifications

- Weight: 1000 kg (200 kg adjustable)
- Box: 50 x 50 x 120 cm
- Lower Rate: 0.5 - 1.0 m/sec
- Recovery Rate: 0.1 - 0.2 m/sec
- Operating Depths: 100 m - full ocean depth
- Total Wire Load: 1.5 - 3 tonnes
- Material: Galvanised Steel

### Box Corer Specifications

- Weight: 600 kg (200 kg adjustable)
- Box: 30 x 30 x 120 cm
- Lower Rate: 0.5 - 1.0 m/sec
- Recovery Rate: 0.1 - 0.2 m/sec
- Operating Depths: 100 m - full ocean depth
- Total Wire Load: 1.0 - 2.5 tonnes
- Material: Galvanised or Stainless Steel

### Mini Box Corer Specifications

- Unladen Weight: 30 kg
- Maximum Laden Weight: 50 kg
- Maximum Core Size: 20.3 x 20.3 x 40.6 cm high
- Overall Dimensions: 40.5 cm wide x 114 cm high
- Overall Dimensions (at launch): 90 cm wide x 144 cm high
- Options/Accessories: Deck Stand



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