

# ***SEDIMENT SAMPLING***

*Drum & Tank Samplers*

*Sludge/Sediment Core Profiler*

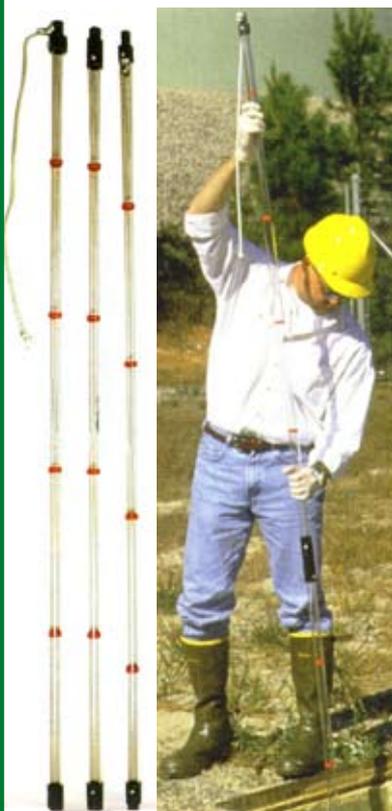
*Sediment Dredge*

*Sediment Sampler*

### Sludge Judge®

Take accurate readings of settled solids to 5m

Ideal for sampling solids in noncaustic materials. Lower the 20mm sampler to the bottom of the tank, drum or pond. A float opens allowing material to flow in. When the sampler is filled, tug on the attached rope as the sampler is raised. This sets the valve, trapping the column of solids and liquid. Use the 0.3m graduations along the clear plastic tube to determine the amount of solids. Touch the pin extending from the bottom on a hard surface to release the valve and drain the sampler. Sampler comes in three 1.5m sections with screw type fittings. 1.5m extensions available for greater depths. A convenient carry case and 1.8m cleaning brush are also available.



#### Ordering Information

- BME18582** Sludge Judge Sampler, 20mm diameter x 5m
- BME18583** Carrying case
- BME226495** 1.8m Spiral Cleaning brush

### Tank Sampler

For depths from 0.3 to 3m

Lower the sampler to the desired depth using the 1' (0.3 m) graduations as a guide. When in place, pull and hold the top rope, which opens the check valve, until the sampler is filled with liquid. Releasing the rope allows the check valve to close, trapping the sample inside. To empty, hold the sampler at a 15 degree angle and pull the rope, or simply press the release pin at the bottom of the sampler against a hard surface such as the bottom of a pail. The sampler is made of a tough 20mm diam plastic, holds approx 75 ml per 0.3m and is available as a 3m unit, made of two 1.5m sections.



#### Ordering Information

- BME28977** Tank sampler, 20mm diam x 3m
- BME18583** Carrying case
- BME226495** 1.8m spiral cleaning brush

### Mucksucker™

For sampling viscous liquids and sludge

Features a syringe action for sampling fluids and sludges that have a high viscosity. To use, loosen the safety nut, push the T-handle down, close the push/seal bottom and insert the sampler into drum or tank. When desired sampling depth is reached, open the push/seal bottom, pull the T-handle up until sample is obtained, and close the push/seal bottom snaps by pressing against the bottom or side of the drum or tank.



#### Ordering Information

- BME224650** Mucksucker, 1m Teflon® 200 ml Capacity
- BME224652** Mucksucker, 2m Teflon® 475ml Capacity

## AMS Sludge/Sediment Samplers

Specifically designed to retain non-cohesive sludge samples.

Similar to the AMS soil core sampler, this sampler comes with core and auger tips that have been fitted with valves for retention of high quality soil core samples in non-cohesive, saturated materials. Versatile and easy-to-use for collection of either cored or augered samples of non-cohesive saturated materials in a liner.



### Ordering Information

**Includes:** Solid cap, valved core tip, valved auger tip, universal slip wrench, plastic end caps, sludge cylinder body, and plastic liner.

**AMS428.11** 57mm x 203mm Sludge Sampler, Threaded

**AMS428.12** 57mm x 254mm Sludge Sampler, Threaded

**AMS428.13** 82mm x 254mm Sludge Sampler, Threaded

**AMS428.01** 82mm x 304mm Sludge Sampler, Threaded

**AMS328.12** 57mm x 254mm QC Sludge Sampler, Quick Connect

**AMS328.13** 82mm x 254mm QC Sludge Sampler, Quick Connect

**AMS328.01** 82mm x 304mm Sludge Sampler, Quick Connect

Also requires extension & t-handle, see page 113

## Wildco Hand Core Sediment Sampler

Sample at any depth. Available for use with sample liners.

The simple design of this bottom sediment sampler is the key to its versatility. In shallow waters, the sampler can be pushed into the sediment using the handles on the head. If water depth permits, extension handles of 1.5m & 3m can be used to sample from boats or docks. A simple valve allows water to flow through the sampler during descent and close tightly when removing the sampler, minimising sample loss. Corer takes a 50mm (2") diameter sample and measures 50cm (20") long. All parts are made of 316 SS.

The corer is a liner-type core tube that accepts removable plastic or stainless steel liners. Includes threaded stainless core tube, 2 Lexan nosepieces, 2 plastic liners with end caps and 3 eggshell core catchers for retaining soft sediments. Available with or without carrying case.



Each Hand Corer is supplied with:

- 316 stainless steel head assembly with 2 removable handles, screw pin clevis and polyurethane flutter valve
- Core tube threaded both ends
- 2 nosepieces; 2 clear CAB liner tubes with caps; 3 eggshell catchers

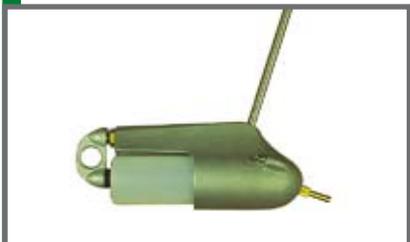
### Ordering Information

<b>BME223583</b>	Hand corer, Stainless Steel, Liner-Type with case, 508mm length
<b>BME223584</b>	Hand corer, Stainless Steel, Liner-Type, no case, 508mm length
<b>BME223585</b>	Hand Corer Extension handle, galvanised steel, 1.5m
<b>BME223586</b>	Hand Corer Extension handle, galvanised steel, 3.5m
<b>BME223587</b>	Hand Corer Extension handle, galvanised steel, 4.5m
<b>BME223596</b>	Eggshell Core Catcher, pk 3
<b>BME223592</b>	Plastic Sample Liner

### Depth Integrated Sediment Sampler

Samples the entire time it is submerged, integrating the water and sediment taken at various depths.

Water and suspended sediment enters the sampler through an intake nozzle filling a 450gm plastic bottle. An exhaust tube is cast into the body to allow air to escape down stream as it is displaced by the sample.



#### Ordering Information

- BME113068** DH-48 Sediment Sampler (shallow), 7 kg
- BME113071** DH-59 Sediment Sampler (deep), 16 kg
- BME113070** 900mm Wading Rod w/Handle, 2 kg
- BME113078** 900mm Extension Rod, 2kg
- BME113072** Plastic Bottle, 448gms Case of 24, 3 kg

### Piston Sampler

**For sampling sludges off the bottom of a body of water**

#### Down hole type

The Down Hole Piston Sampler with removable nose cone has an attachment for extension rods to connect to the top. It is used when a sample is required from down an augered hole or from the bed of a body of water. Down force is applied via the extension rods and/or through a pulley attached to the T-Handle on the extension rods. The piston is pulled up using a rope attached to the piston.

Core Catchers can be installed between the sampler and nose cone to prevent sample from falling out.

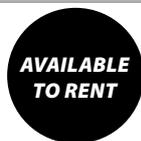


#### Specifications

- Dimensions** 50 mm OD, 46.8 mm ID, 1.3m long
- Sample Length** 1m approx
- Materials** Stainless steel
- Weight** 9.2 kg

#### Ordering Information

- DORPSDH501OCR** Piston Sampler with removable nose cone for use with core catcher
  - DOREXT4010AC** Extensions 40 mm x 1m Aluminium
  - DORTHSC** Tee handle 470 mm
  - DORCBAG15** Carry bag
  - BME223596** Core catchers, 3pk
- \*Other sizes available, but the smaller the better.



### Winch

Handy for raising and lowering heavy equipment and bottom dredges. This light-weight winch can be used with loads up to 165kg and has a variety of crank revolution to spool revolution ratios which allow you to lift heavy items or lift lighter loads faster. The boom can be moved to any angle you need. Standard crank ratio is 1: 1. Holds up to 300 m of steel cable. Weight 15kg.



#### Ordering Information

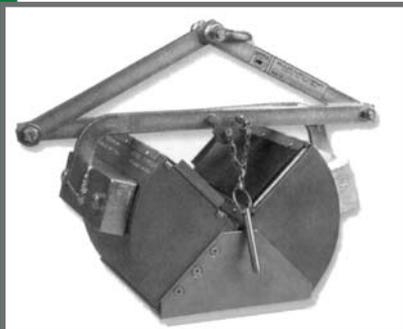
- WLS85-E20** Winch & depth meter, metric
- Mounting hardware not included

## Ponar Grab Sampler Standard & Petite

For sampling hard sediments such as sands, gravel and clays

Widely used for quantitative samplings of benthic macro organisms in sand, gravel and clays. The self-tripping sampler features centre hinged jaws and a spring loaded pin that releases when the sampler makes impact with the bottom. Features include an underlip attachment that cleans gravel from the jaws that would normally prevent closing and removable side plates that prevent lateral loss of sample. The top is covered with a stainless steel screen with neoprene rubber flaps which allows water to flow through for a controlled descent and less interference with the sample. The standard 230mm x 230mm (9in. x 9in.) Ponar weighs 20kg empty and should be used with a winch and cable. Sample volume 8200ml.

Petite Ponar is 150mm x 150mm (6in. x 6in.) and weighs 11kg Sample volume 2400ml. Constructed of stainless steel with zinc plated steel arms and weights. Safety pin prevents premature closing.



### Ordering Information

**BME223576** Standard Ponar  
230 mm x 230 mm, 20kg

**BME223578** Petite Ponar  
150 mm x 150 mm, 12kg  
Available to RENT

## AMS Bottom Dredges

Ideal for sampling sediment from the bed of any body of water

Made of stainless steel, these dredges are designed to withstand rust and hard use.

The 7.5kg and 12.5kg models made from stainless steel, are used for obtaining most types of bottom material. A two-way mechanism prevents accidental closure while the dredge is dropping. The impact of the dredge on the bottom surface triggers the spring-loaded release mechanism, without using a messenger. Sample opening is 150mm x 150mm.



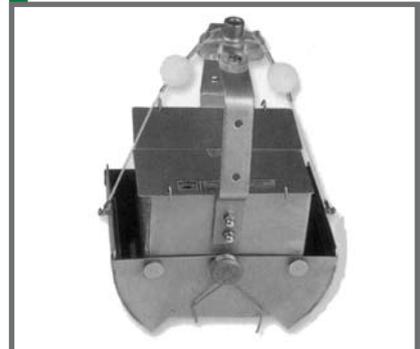
### Ordering Information

**AMS445.10** AMS Bottom Dredge , 7.5kg  
**AMS445.60** AMS Bottom Dredge, 12.5kg

## Ekman Bottom Grab Sampler

For sediment from sampling lakes, streams and rivers

Designed for sampling in soft, finely divided bottoms that are free from vegetation and other coarse debris. Each sampler features machined jaws and hinged overlapping lids that open easily during descent to let water pass through and close during retrieval to reduce sample washout. The patented Two-pin release mechanism has few moving parts and is very reliable. Each sampler is constructed of 316 stainless steel, including the springs, cables and fasteners. Sampler measures 150mm x 150mm x 150mm (6in. x 6in. x 6in. - 216 cu. in.). Available separately or in kit form with stainless messenger, 30m line and carrying case. Optional extension handle permits easier shallow water operation. The handle is constructed of galvanised pipe and stainless steel and is available in 1.5m (5 ft.) or 3m(10 ft.) lengths.



### Ordering Information

**BME223570** Ekman Sampling Kit  
**BME223571** Ekman Sampler Only  
**BME223573** 1.5m (5 ft.) Extension Handle

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