



# Russian Sediment/ Peat Borer Complete Kit

## INTRODUCTION

Thank you for choosing AMS, Inc.

## APPLICATION

- Paleocological analysis of bog and salt marsh sediments
- Collection of uncompressed cores in poorly decomposed woody peat
- Shallow water applications



## DESCRIPTION

The Russian Peat Borer (6 cm X 50 cm model shown) is a side filling chambered-type sampler. This discrete point sampler enables one to drive the sampler to any point in the sediment profile in the closed (empty) position. Once the target depth is reached, the "T" handle is turned clockwise to initiate the sampling while the pivoting cutting plate supports the cutting action of the borer tube. As the sampler is turned 180 degrees, the sharpened edge of the borer longitudinally cuts a semi-cylindrical shaped sample until the opposite side of the cutting plate is contacted. The contained sample can now be recovered without risk of contamination by overlying sediments. The sample is extruded from the borer by a counterclockwise rotation where sample rests on cutting plate ready for sectioning.

## SPECIFICATIONS

- Russian Borer (Sampler Head Only)
  - » (50 cm X 6 cm O.D.)
  - » Borer tube wall thickness: .118 in. (.48 cm.)
  - » Borer tube is sharpened to longitudinally cut through sediments when sampler is turned clockwise
  - » Borer tube and cutting plate (SST)
  - » Borer tip and cap (aluminum)
- Two aluminum extension rods: (120 cm X 3.49 cm diameter)
- Nominal volume: 31.023 cubic inches or 503.38 cubic centimeters (thcan vary depending on soil conditions)

## KIT INCLUDES

- #25031 - (2) Russian Borer 1.2 Meter Aluminum Extension, 7/8" Thread
- #25034 - (1) Russian Borer T-Handle, 7/8" Thread
- #25035 - (1) Russian Borer (Sampler Head Only)
- #430.24 - (1) Russian Peat Carrying Case

## ACCESSORIES

- #25032 - (1) Russian Borer Oversize 2.4 Meter Aluminum Extension Rod, 7/8" Thread
- #25033 - (1) Russian Borer Slide Hammer, 7/8" Male Fitting



**SKU: 25030**

**KIT WEIGHT: 41 lbs**

Agricultural  
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Environmental  
Groundwater

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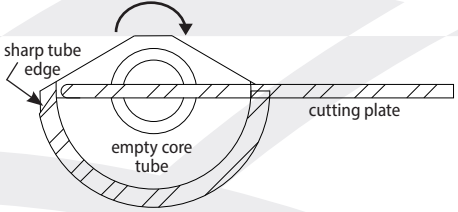
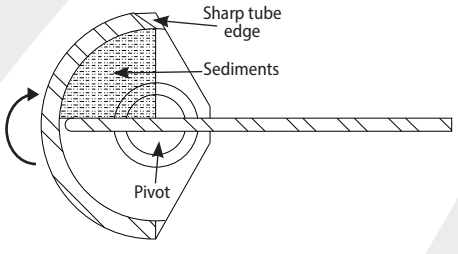
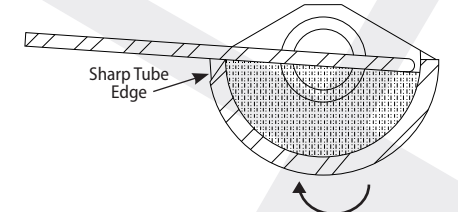
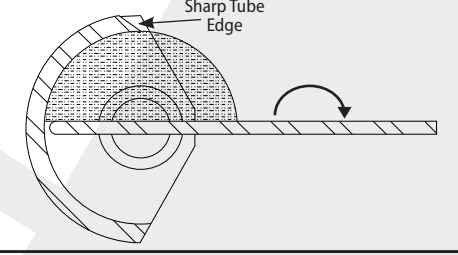
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## GENERAL PROCEDURE

<p><b>Beginning Position;</b> corer is inserted in the sediments with the blunt edge of the core tube turned against the cover flap to prevent sediments from entering the core tube during penetration.</p>	<p><b>Driving to depth</b></p> 
<p><b>Retrieving Position;</b> borer tube is turned clockwise allowing the sharpened edge of the tube to cut through the sediments; the cutting plate stabilizes sediments around the borer tube during rotation.</p>	<p><b>Retrieving sample 1</b></p>  <p><b>Retrieving sample 2</b></p> 
<p><b>Extracting Position;</b> After retrieval; borer tube is turned counterclockwise to expose core sample on cutting plate.</p>	<p><b>Extracting sample 1</b></p>  <p><b>Extracting sample 2</b></p> 