

Collects virtually undisturbed core samples of up to 36" in length in soils, waste pits, or other semi-solid materials for agricultural and environmental studies, soil research, archaeology, limnology research, ocean and coastal studies, geological investigations, etc.

Features & Construction

Made of 300 series stainless steel except for the core tip which is 400 series (harder) stainless steel. Included are a core tip, an auger tip, a 12"L 2³/₈"-OD base section with 2"-OD stainless steel retaining cylinder, a solid cap threaded to accept a slide hammer, handle, or extensions, two plastic caps for the retaining cylinder, and a slip wrench to aid in disassembly. Machined to strict tolerances so parts fit together precisely and retaining cylinders slide in and out easily. 12"L extensions permit the sampler to be extended to 6'.

Use & Operation

For an undisturbed sample the core tip is used along with a slide hammer to drive the sampler into the ground. As many 12" extensions may be used as necessary to obtain a continuous core, and these are screwed on above the base section. The maximum the sampler can be expected to penetrate is 6'D, but 3'D is more the norm. Retaining cylinders are used in 12" sections but can be special ordered up to 6'L. After pounding the sampler into the matrix to be sampled, it is removed, the cap and extensions unscrewed, and the retaining cylinders with sample are removed out the top of each section and then capped. If desired, the sampler can be used without the retaining cylinders, and the sample is merely pushed out of each section.

The auger tip can be used in place of the core tip, and this is turned into the soil or other matrix with the addition of a cross handle. The sample obtained will be representative but will not be stratified like a sample taken with a core tip. This tip can also be used to auger down to the level where a core is needed to be taken.

Additional Information

For sampling matrices which are loosely consolidated, core catchers, or tips with sludge valves, may be used. A core catcher fits into the sampling cylinder between the tip and the retaining cylinder where it is sandwiched in place. It acts as a one-way valve to let sample material in but not out, and is reusable as many as 20 times. To sample even less cohesive material, core and auger tips with one-way butterfly valves would be desirable instead of a core catcher.

These are more appropriate for sampling lagoons, lakes, and waste impoundments where sludge and muck may be present.

Retaining cylinders are available in butyrate plastic, brass, stainless steel, and Teflon in 12"L. 2' and 3' lengths are available as a special order in all but Teflon, as are custom lengths up to 6'L. Stainless steel cap inserts are also available to line the plastic caps if desired, producing a nonreactive sample container when used in conjunction with a stainless steel sampling cylinder.

Quick connect adaptors and extensions may be used with the sampler if an auger tip is used, but not if a core tip is used, as the connections would not stand up to the stress imparted by the slide hammer. Screw type connections are necessary when using the slide hammer.

Components may be supplied individually to suit a particular application, as some jobs may not require the auger tip, steel retaining cylinder, etc. Additional slip wrenches for easy disassembly are also available in case one is insufficient.

Common Questions

- Q.** How long a core sample can I take?
- A.** That depends upon the matrix being sampled. The sampler can be extended to 6' before it ceases to be effective in some matrices, but most soils will have difficulty going beyond 3'D.
- Q.** Does the cap come in a quick connect version?
- A.** No, the slide hammer would not attach to it or to the extensions if it did. Although an adaptor is available, it is not recommended, as there is too much potential for damage with a quick connection when used with a slide hammer. Using the quick connect fittings with the core sampler voids the quick connect warranty!
- Q.** Can a core catcher be used without a retaining cylinder?
- A.** No. The core catcher would just get pushed up into the top of the sampler as there would be nothing to hold it down adjacent to the core tip.

Specifications

Material:	300 series stainless steel (core tip 400 series)
Outside Diameter:	2 ³ / ₈ "
Inside Diameter:	2"
Length:	12"L, extendible to 6" in 1' sections
Retaining Cylinder:	2"-OD x 12"L stainless steel, also available in plastic, brass, and Teflon and in custom lengths
Warranty:	30 days

Ordering Information

- 226315 AMS Extendible Core Sampler
- 226320 Solid Cap
- 226321 12" Extension Section
- 226322 Base Section
- 226323 Core Tip
- 226324 Core Tip with Butterfly (sludge) Valve
- 226325 Auger Tip
- 226326 Auger Tip with Butterfly (sludge) Valve
- 226355 Slip Wrench
- 226117 Stainless Steel Cap Inserts for capping caustic
samples (2"-dia.)
- 220174 Slide Hammer
- 223596 Core Catcher

FREE Technical Support

When you have a question, you can rely on our team of technical experts. They'll answer your questions about product specifications, chemical compatibility, regulatory issues, and general worker safety and health.

Call our Technical Support line toll-free:

1-800-241-6401

7 a.m. to 7 p.m. CT, Monday-Friday

FREE Catalog

When the outdoors is your office, turn to a Ben Meadows Catalog. In it you'll find thousands of products and our 100% guarantee to stand behind them.

Call today to reserve your free copy:

1-800-241-6401

7 a.m. to 7 p.m. CT, Monday-Friday

Please note: The information contained in this publication is intended for general information purposes only. This publication is not a substitute for review of the applicable government regulations and standards, and should not be construed as legal advice or opinion. Readers with specific questions should refer to the cited regulation(s), or consult with an attorney.