

Split Core Soil Sampler

APPLICATION:

Hand sampling unconsolidated soils and wastes. Use with an Auger Tip to access a sampling point or collect disturbed samples. Use with a Coring Tip to collect relatively undisturbed samples. Designed for use with or without a Liner. Direct field examination and sub sampling of the core is possible when a liner is not used.

DESCRIPTION:

The vented Top Cap is made from 300 series stainless steel and is provided with either a 5/8-in NC threaded or Signature Series top connection for Extension, Cross Handle or Slide Hammer attachment. The lower end is internally square threaded for attachment to the Split Cup set.

The heavy wall 300 series stainless steel Split Cups interlock and are square threaded (male) on both ends. Made in three liner sizes, 1 3/8-in, 2-in and 2 1/2-in and lengths of either 6-in or 12-in. The sampler OD is 1/2-in larger than the liner size.

The Core Tip is made from hardened 400 series stainless steel. It is internally square threaded for attachment to the Split Cup set.

The Auger Tip is made from 300 series stainless steel. It is internally square threaded for attachment to the Split Cup set. It will cut a hole 1/4-in larger than the sampler diameter to reduce drag.

The assembled sampler has a continuous smooth outer surface with an OD 1/2-in larger than the liner, i.e 1 7/8-in, 2 1/2-in or 3-in.

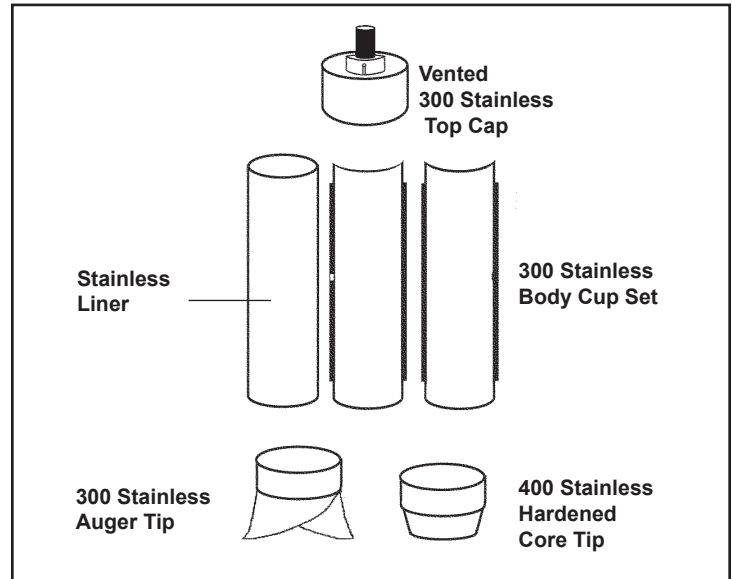
The sampler is supplied as a kit with a Top Cap, Cup Set and either an Auger Tip, Coring Tip or both tips. A Slip Wrench, stainless steel Liner and two plastic End Caps are included. Individual components are available separately. Accessory parts for this sampler include a basket retainer for the 2-in size, useful in soft friable soils and saturated conditions. Core and auger tips fitted with one-way butterfly valves are also available for all diameters of this sampler.

Samples longer than the Cup Set may be collected by using multiple Cup Sets with Couplings to join the Cup Sets together. Samples up to 3-ft long may be collected using this technique.

USE:

Assembly should always be done with clean sampler components. Take care to ensure that all the threads and Cup Set mating surfaces are clean. When necessary use sufficient PPE to protect the user from possible site contaminants, as may be specified in a site safety and sampling plan.

Lock the two cups together and thread either a Core or Auger tip to one end of the Cup Set and tighten. Insert a suitable Liner in the Cup Set if required. Thread the Top Cap to the other end of the Cup Set and tighten. If permitted by the site sampling plan a little vegetable oil may be applied to the sampler threads to facilitate assembly.



Attach a suitable Extension to the top of the sampler and tighten. If augering, attach a Cross Handle to the Extension. If coring, attach a Slide Hammer to the Extension and tighten.

To collect an augered sample twist the Cross Handle clockwise while pressing down. Continue until the sampler has been driven it's length. Remove the sampler by pulling up on the Cross Handle.

To collect a core sample raise the Slide Hammer body and allow it to fall to drive the sampler. Continue until the sampler has been driven it's length. Remove the sampler by reverse hammering.

Disconnect the sampler from the extension and driving mechanism, using crescent or regular wrenches, if necessary. Keeping the sampler horizontal, remove the Tip and Top Cap carefully, using the Slip Wrench if necessary. Carefully open the Split Cup set to examine the sample. If a Liner was used cap the ends with the provided End Caps.

The sampler should be cleaned and decontaminated between sampling events. At a minimum it should be soaked in water with a suitable detergent and brushed to remove soil or waste particles. A second rinse in clean water should be done before drying and re-assembly. The Split Core Soil Sampler is made entirely from stainless steel and may therefore be acid bathed for decontamination, if this is specified in the site sampling plan. After decontamination inspect the threads to ensure that they are clean and free of soil or waste particles. Check the Top Cap vent to ensure that it is open.

In soft, friable or dry sandy materials difficulty may be experienced in retaining the sample in the sampler during recovery. For the 2-in Liner sized Split Core Soil Sampler a 2-in Basket Retainer may be used. Place it immediately below the liner, and above the Tip before assembling and using the sampler. Note, the liner may need to be shortened by about 1/8-in when the Basket Retainer is used.

Split Core Soil Sampler

AVAILABILITY:

Split Core Soil Samplers are supplied complete or as individual components. The complete models include the Top Cap, Cup Set, Core Tip or Auger Tip or both, a stainless steel Liner, two plastic End Caps and a Slip Wrench. All Split Core Soil Samplers are sized by the Liner nominal diameter and length.

Split Core Soil Samplers Complete, 5/8-in NC Thread

Size	Both Tips	Core Tip	Auger Tip
2 1/2" x 12"	#403.67	#403.43	#403.59
2 1/2" x 6"	#403.65	#403.42	#403.57
2" x 12"	#403.63	#403.41	#403.55
2" x 6"	#403.61	#403.40	#403.53
1 3/8" X 12"	#403.596	#403.592	#403.594
1 3/8" X 6"	#403.595	#403.591	#403.593

Split Core Soil Samplers Complete, Signature Series Thread

Size	Both Tips	Core Tip	Auger Tip
2 1/2" x 12"	#355.63	#355.43	#355.23
2 1/2" x 6"	NA	#355.53	#355.13
2" x 12"	#355.62	#355.42	#355.22
2" x 6"	#355.52	#355.32	#355.12
1 3/8" X 12"	#355.61	#355.41	#355.21
1 3/8" X 6"	#355.51	#355.31	#355.11

Split Core Soil Sampler Components

Size	12" Cup Set	6" Cup Set
2 1/2"	#403.47	#403.46
2"	#403.45	#403.44
1 3/8"	#403.598	#403.597

Size	Core Tip	Auger Tip
2 1/2"	#403.51	#403.71
2"	#403.50	#403.69
1 3/8"	#403.601	#403.60

Size	Top Cap 5/8 NC	Top Cap Sign. Ser.
2 1/2"	#403.49	#355.03
2"	#403.48	#355.02
1 3/8"	#403.599	#355.01

Size	6" SS Liner	12" SS Liner	Liner Caps
2 1/2"	#405.20	#405.88	#404.85
2"	#404.31	#405.14	#418.10
1 3/8"	#403.87	#403.88	#418.11

Split Core Soil Sampler Accessories

Size	Valved Core Tip	Valved Auger Tip	Coupling
2 1/2"	#403.75	#403.754	#403.72
2"	#403.74	#403.752	#403.73
1 3/8"	#403.756	#403.758	#403.602

Slip Wrench- #421.29
Basket Retainer for 2" Sampler- #404.90
Fluoropolymer Swatches (50)- #418.17

ANCILLIARY ITEMS:

Extensions

Length	4130 Steel 5/8-in NC	Stainless Steel 5/8-in NC	Signature Series
1-ft	#408.00	#409.06	#351.00
2-ft	#408.01	#409.07	#351.01
3-ft	#408.02	#409.08	#351.02
4-ft	#408.03	#409.09	#351.03
5-ft	#408.04	#409.10	#351.04

Slide Hammers

Type	5/8-in NC Thread	Signature Series
Slide Hammer	#400.99	#350.99
Compact	#400.96	#350.96
Heavy Duty	#400.93	#350.93

Cross Handles

Type	5/8-in NC Thread	Signature Series
10" w/Grips	#401.26	NA
16" Plain Steel	#406.02	NA
16" Rubber Coated	#406.04	NA
18" Ratcheting	#406.80	#351.56
18" Rubber Coated	NA	#351.54
10" Stainless Steel	#401.24	NA
16" Stainless Steel	#409.11	NA

Wrench

12-in Crescent Wrench- #421.10



105 Harrison
American Falls
Idaho 83211, USA

1-800-635-7330
208-226-2017
fax: 208-226-7280

www.ams-samplers.com
email: ams@ams-samplers.com