



AMS, Inc.
105 Harrison Street
American Falls,
Idaho 83211

800.635.7330
208.226.2017
fax: 208.226.7280
ams@ams-samplers.com
www.ams-samplers.com



The world's finest
sampling equipment.

Split Core Soil Sampler

Application:

The split soil core sampler was designed with a vertically split cylinder (cup set) which allows for easy extraction of soil cores – minimizing the chance for disturbance of the collected sample. Use it without a liner to collect undisturbed core samples for immediate field examination and testing, or with a liner for collection of undisturbed samples to be prepared for laboratory analysis. Sampler outer diameters (OD) are 1/2"-in larger than the liner.

Use the sampler with an auger tip to access a sampling point or collect disturbed samples. Use with a coring tip to collect relatively undisturbed samples.

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 attachments. The lower end is internally square threaded for attachment to the split core sampler 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 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 includes a top cap, cup set and either an auger tip, coring tip or both tips – depending on the sampler option selected. A slip wrench, plastic liner and two plastic end caps are also included. Individual components are available separately.

Accessory parts for this sampler include core and auger tips fitted with one-way butterfly valves. A coupler that joins multiple cup sets together – allow for the collection of samples longer than individual cup sets. Samples up to 3-ft long may be collected using this technique. Basket retainers are available for use in soft friable soils and saturated conditions. Cross handles and ratcheting cross handles are available for use with auger tips, and slide hammers are available for use with core tips. A variety of liners, cap options are also available.

Use:

Assembly should always be done with clean sampler components. Ensure that all the threads and cup set surfaces are clean. When necessary, use sufficient PPE to protect the user(s) 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, vegetable oil may be applied to the 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 until the sampler has been driven its 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 its 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

Technical Data Sheet
page 1 Of 3



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 samplings. 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. 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. A 2-in basket retainer may be used with 2-in samplers. Place it immediately below the liner, and above the top 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.

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 plastic liner, two plastic end caps and a slip wrench. All split core soil samplers are sized by the liner nominal diameter and length.

Sampling Equipment

PowerProbe

Well Management

Pest Control

PowerCore

Split Core Soil Sampler

Technical Data Sheet
page 2 Of 3

Signature Series Samplers with Core and Auger Tips

part #	dia.	length	weight
355.63	2 1/2"	12"	12.0 lb.
355.53	2 1/2"	6"	8.0 lb.
355.62	2"	12"	10.5 lb.
355.52	2"	6"	7.0 lb.
355.61	1 3/8"	12"	8.0 lb.
355.51	1 3/8"	6"	5.0 lb.

Samplers with Core Tips

355.43	2 1/2"	12"	7.3 lb.
355.33	2. 1/2	6"	7.3 lb.
355.42	2"	12"	11.0 lb.
355.32	2"	6"	6.0 lb.
355.41	1 3/8"	12"	7.5 lb.
355.31	1 3/8"	6"	4.0 lb.

Samplers with Auger Tips

355.23	2 1/2"	12"	11.0 lb.
355.13	2 1/2"	6"	7.3 lb.
355.22	2"	12"	9.5 lb.
355.12	2"	6"	6.0 lb.
355.21	1 3/8"	12"	7.5 lb.
355.11	1 3/8"	6"	4.0 lb.

5/8" Threaded Samplers with Core and Auger Tips

part #	dia.	length	weight
403.65	2 1/2"	6"	8.0 lb.
403.67	2 1/2"	12"	12.0 lb.
403.61	2"	6"	7.0 lb.
403.63	2"	12"	10.5 lb.
403.595	1 3/8"	6"	5.0 lb.
403.596	1 3/8"	12"	8.0 lb.

Samplers with Core Tips

403.42	2 1/2"	6"	7.3 lb.
403.43	2 1/2"	12"	11.0 lb.
403.40	2"	6"	6.0 lb.
403.41	2"	12"	9.5 lb.
403.591	1 3/8"	6"	4.0 lb.
403.592	1 3/8"	12"	7.5 lb.

Samplers with Auger Tips

403.57	2 1/2"	6"	7.3 lb.
403.59	2 1/2"	12"	11.0 lb.
403.53	2"	6"	6.0 lb.
403.55	2"	12"	9.5 lb.
403.593	1 3/8"	6"	4.0 lb.
403.594	1 3/8"	12"	7.5 lb.

Replacement Parts

part #	item description	weight
5/8" THREADED TOP CAPS		
403.49	2 1/2" NC Split SCS Solid Cap	1.3 lb
403.48	2" NC Split SCS Solid Cap	1.0 lb
403.599	1 3/8" Split SCS Solid Cap	0.7 lb
SIGNATURE SERIES TOP CAPS		
355.03	2 1/2" SS Split SCS Solid Cap	0.40lb
355.02	2" SS Split SCS Solid Cap	0.3 lb
355.01	1 3/8" SS Split SCS Solid Cap	0.3 lb
TIPS		
403.51	2 1/2" Split SCS Core Tip	0.7 lb
403.50	2" Split SCS Core Tip	0.6 lb
403.601	1 3/8" Split SCS Core Tip	0.50lb
403.71	2 1/2" Split SCS Auger Tip	1.0 lb
403.69	2" Split SCS Auger Tip	0.7 lb
403.60	1 3/8" Split SCS Auger Tip	0.5 lb
CUP SETS		
403.46	2 1/2" x 6" Split SCS Cup Set	3.0 lb
403.44	2" x 6" Split SCS Cup Set	2.5 lb
403.597	1 3/8" x 6" Split SCS Cup Set	1.9 lb
403.47	2 1/2" x 12" Split SCS Cup Set	5.7 lb
403.45	2" x 12" Split SCS Cup Set	5.1 lb
403.598	1 3/8" x 12" Split SCS Cup Set	4.0 lb
MISCELLANEOUS		
421.29	Universal Slip Wrench	1.3 lb



421.29

AMS Extensions

Signature Series Extensions

351.00	1'		0.8 lb.
351.01	2'		1.2 lb.
351.02	3'		1.7 lb.
351.03	4'		1.7 lb.
351.04	5'		2.4 lb.



5/8" Threaded Extensions

408.00	1'		0.8 lb.
408.01	2'		1.2 lb.
408.02	3'		1.7 lb.
408.03	4'		2.3 lb.
408.04	5'		2.4 lb.
409.06	1'	SST	0.8 lb.
409.07	2'	SST	1.3 lb.
409.08	3'	SST	1.7 lb.
409.09	4'	SST	2.2 lb.
409.10	5'	SST	2.6 lb.



351.56



406.04



400.96

400.99

400.93

Slide Hammers & Cross Handles

Slide hammers provide a simple method for easy soil penetration. They are used to pound soil core samplers into the ground by allowing the user to push or drop the hammer weight down the slide rod which then provides downward force directly down the extension and to the sampler. Slide hammers also assist in sample retrieval by back hammering to provide upward force.

Cross Handles are used with soil core samplers utilizing auger tips – which are designed to cut into the soil and force the soil into the body of the core sampler when rotated.

Signature Series Slide Hammers

350.96	Compact Slide Hammer	7.7 lb.
350.99	Regular Slide Hammer	10.3 lb.

5/8" Threaded Slide Hammers

400.96	Compact Slide Hammer	7.7 lb.
400.99	Regular Slide Hammer	10.3 lb.

Signature Series Cross Handles

351.54	18" Rubber-Coated Cross Handle	1.1 lb.
351.56	18" Ratcheting Cross Handle	2.4 lb.

5/8" Threaded Cross Handles

406.04	18" Rubber-Coated Cross Handle	1.1 lb.
406.80	18" Ratcheting Cross Handle	2.1 lb.



105 Harrison
American Falls
Idaho 83211, USA

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

www.ams-samplers.com
e-mail: ams@ams-samplers.com

Split Core Soil Sampler

Technical Data Sheet
page 3 of 3

AMS Liners

The sizes shown are the retaining cylinder size.

*No returns are accepted for Plastic Liners.

Plastic Liners

406.56	1 3/8"	6"	0.1 lb.
406.57	1 3/8"	12"	0.2 lb.
404.17	2"	1"	0.1 lb.
404.18	2"	2"	0.1 lb.
404.19	2"	3"	0.1 lb.
404.20	2"	4"	0.1 lb.
404.21	2"	6"	0.2 lb.
422.03	2"	8"	0.2 lb.
422.04	2"	10"	0.2 lb.
405.10	2"	12"	0.2 lb.
425.20	2"	24"	0.3 lb.
406.72	2"	36"	0.4 lb.
406.73	2"	48"	0.5 lb.
406.55	2 1/2"	6"	0.2 lb.
406.74	2 1/2"	12"	0.3 lb.

Brass Liners

404.22	2"	1"	0.1 lb.
404.23	2"	2"	1.2 lb.
404.24	2"	3"	0.2 lb.
404.25	2"	4"	0.3 lb.
404.26	2"	6"	0.4 lb.
406.25	2"	8"	0.5 lb.
406.26	2"	10"	0.6 lb.
405.12	2"	12"	0.8 lb.
405.33	2 1/2"	3"	0.3 lb.
405.16	2 1/2"	6"	0.5 lb.

Stainless Steel Liners

403.87	1 3/8"	6"	0.3 lb.
404.27	2"	1"	0.1 lb.
404.28	2"	2"	0.2 lb.
404.29	2"	3"	0.4 lb.
404.30	2"	4"	0.5 lb.
404.31	2"	6"	0.7 lb.
422.07	2"	8"	0.7 lb.
422.08	2"	10"	1.1 lb.
405.14	2"	12"	1.3 lb.
405.20	2 1/2"	6"	0.8 lb.
405.88	2 1/2"	12"	1.6 lb.

Aluminium Liners

404.11	2"	1"	0.1 lb.
404.12	2"	2"	0.1 lb.
404.13	2"	3"	0.1 lb.
404.15	2"	4"	0.2 lb.
404.16	2"	6"	0.2 lb.
405.45	2"	8"	0.3 lb.
405.46	2"	10"	0.3 lb.
405.07	2"	12"	0.4 lb.
405.15	2 1/2"	6"	0.3 lb.
405.64	2 1/2"	12"	0.5 lb.



Liner End Caps

Polyethylene plastic end caps cover the ends of AMS Liners.

*Liner end caps are only available in blue.

418.11	1 3/8"	0.1 lb.
418.08	1 1/2"	0.1 lb.
418.10	2"	0.1 lb.
404.85	2 1/2"	0.1 lb.
418.09	3"	0.1 lb.

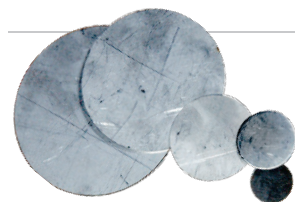


Soil Core Catchers

Soil core catchers are used to minimize the loss of dry, loose soil samples during soil recovery.

*Liners must be cut 1/8" shorter.

404.91	2"	0.1 lb.
404.90	2"	0.1 lb.



End Cap Inserts

Designed to work in conjunction with the plastic liner caps, these stainless steel inserts minimize loss of volatiles.

422.14	1 1/2"	0.1 lb.
422.13	2"	0.1 lb.
422.12	2 1/2"	0.1 lb.



Fluoropolymer Film

Fluoropolymer film is used to cover, seal or wrap samples for shipping or examination.

100' Perforated Roll (0.003" thick)

418.16	4" x 4"	1.3 lb.
--------	---------	---------

50 Film Swatches (0.003" thick)

418.17	4" x 4"	1.6 lb.
--------	---------	---------

Split Soil Core Sampler Coupling

The split soil core sampler cylinder coupling allows you to thread two or more cup sets together.



Split Soil Core Sampler Coupling

403.602	1 3/8"	0.3 lb.
403.73	2"	0.3 lb.
403.72	2 1/2"	0.4 lb.

Valved Core Tips and Auger Tips

The AMS split SCS valved tips give versatility to the split soil core sampler, adding an efficient, affordable sludge sampling option.



Split Soil Core Sampler Valved Tips

403.756	1 3/8"	Valved Core Tip	0.8 lb.
403.74	2"	Valved Core Tip	1.0 lb.
403.75	2 1/2"	Valved Core Tip	1.2 lb.
403.758	1 3/8"	Valved Auger Tip	1.0 lb.
403.752	2"	Valved Auger Tip	1.3 lb.
403.754	2 1/2"	Valved Auger Tip	1.7 lb.



Soil sample collected using a split soil core sampler and 2" x 6" plastic liner.



105 Harrison
American Falls
Idaho 83211, USA

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

www.ams-samplers.com
e-mail: ams@ams-samplers.com