

APPLICATION:

Hand sampling unconsolidated soils and wastes for environmental, geotechnical and life sciences investigations. The AMS Core Samplers collect virtually undisturbed samples in removable Liners.

DESCRIPTION:

AMS Soil Core Samplers are made from either chrome-molybdenum alloy 4130 steel or stainless steel. They are available in four Liner size diameters (1 1/2, 2, 2 1/2 and 3-in) and lengths from 2-in to 12-in. Soil Core Samplers have an outside diameter 1/4-in larger than the liner, i.e. 1 3/4-in, 2 1/4-in, 2 3/4-in or 3-in.

The vented Top Cap is provided with a 5/8-in NC threaded top connection or Signature Series thread for Extension or Slide Hammer attachment. The lower end is externally square threaded for attachment to the sampler Body (Cup). They are made from either 4130 alloy steel or 300 series stainless steel.

The sampler Body is internally square threaded on the upper end and made from either 4130 alloy steel or 300 series stainless steel. The lower end has an integral core tip of either heat treated 4130 alloy steel or hardened 400 series stainless steel.

The Liner is designed to fit inside the Body. It rests on a lip behind the core tip. An optional Basket Retainer is available for the 2-in models. The retainer fits inside the lower end of the Liner and assists in preventing loss of sample during recovery of dry, sandy or friable soils and materials. It may be necessary to shorten the Liner length by 1/8-in, to accommodate the Basket Retainer. The plastic End Caps are used to seal the ends of the filled Liner. Fluoropolymer swatches are also available for additional sealing of the ends of the sample, under the Cap.

The AMS Slide Hammer has a mass of about 10 pounds. It attaches directly to the sampler Top Cap or an Extension and is used to both drive and recover the sampler.

The assembled sampler has a continuous smooth outer surface. They are available as kit with Top Cap, Body Cylinder, Liner and two End Caps or with an AMS Slide Hammer. All components are also available separately.

USE:

Assembly should always be done with clean sampler components. Take care to ensure that all the treads and Top Cap vent 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.

- Insert a suitable Liner in the Body (Cup).
- Thread the Top Cap to the upper end of the cup and tighten.
- Attach a suitable Extension to the top of the sampler and tighten.
- Attach a Slide Hammer to the Extension and tighten.



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

Disconnect the sampler from the Extension and Slide Hammer, using crescent or regular wrenches, if necessary, Keeping the sampler vertical, remove the Top Cap carefully, using a Slip Wrench if necessary. Remove the filled liner by first extruding it from the body by pushing up from the sampler lower end. Place a Plastic End Cap on the upper end of the Liner before removing the Liner from the Sampler Body. With the lower end vertical cap this end as well. Suitably label the Liner, noting orientation on each of the 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. Core Samplers made entirely from stainless steel may be acid bathed for decontamination, if this is specified in the site sampling plan.

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 Core Sampler in 2-in Basket Retainer may be used. Place it immediately below the liner inside the Sampler Body before assembling and using the sampler.

AVAILABILITY:

Core Samplers are supplied as a Complete Core Sampler, Complete core Sampler with Slide Hammer or as individual components in either type 4130 steel or stainless steel. The core Sampler includes the Top Cap, Sampler Body (Cup), an aluminum Liner and two Plastic End Caps. All Core Samplers have a 5/8" NC threaded top cap connection except for the Signature Series which have a custom thread.



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Soil Core Sampler

Core Samplers

3" x 6" Steel Core Sampler	#404.48
2 1/2" x 6" Steel Core Sampler	#404.51
2" x 12" Steel Core Sampler	#404.49
2" x 6" Steel Core Sampler	#404.10
2" x 4" Steel Core Sampler	#404.09
2" x 3" Steel Core Sampler	#404.08
2" x 2" Steel Core Sampler	#404.07
1 1/2" x 12" Steel Core Sampler	#404.96
1 1/2" x 6" Steel Core Sampler	#404.38

2" x 6" Signature Steel Core Sampler	#354.16
1 1/2" x 6" Signature Steel Core Sampler	#354.15

3" x 6" Stainless Core Sampler	#404.74
2 1/2" x 6" Stainless Core Sampler	#404.73
2" x 12" Stainless Core Sampler	#404.75
2" x 6" Stainless Core Sampler	#404.71
2" x 4" Stainless Core Sampler	#404.70
2" x 3" Stainless Core Sampler	#404.69
2" x 2" Stainless Core Sampler	#404.68
1 1/2" x 12" Stainless Core Sampler	#404.88
1 1/2" x 6" Stainless Core Sampler	#404.72

Core Samplers with Slide Hammer

3" x 6" Steel Core Sampler w/ Hammer	#404.48
2 1/2" x 6" Steel Core Sampler w/ Hammer	#404.51
2" x 12" Steel Core Sampler w/ Hammer	#404.49
2" x 6" Steel Core Sampler w/ Hammer	#404.10
2" x 4" Steel Core Sampler w/ Hammer	#404.09
2" x 3" Steel Core Sampler w/ Hammer	#404.08
2" x 2" Steel Core Sampler w/ Hammer	#404.07
1 1/2" x 12" Steel Core Sampler w/ Hammer	#404.96
1 1/2" x 6" Steel Core Sampler w/ Hammer	#404.38

2" x 6" Signature Steel Core Spr. w/ Hammer	#354.26
1 1/2" x 6" Signature Steel Core Spr. w/ Hammer	#354.25

3" x 6" Stainless Core Sampler w/ Hammer	#404.74
2 1/2" x 6" Stainless Core Sampler w/ Hammer	#404.73
2" x 12" Stainless Core Sampler w/ Hammer	#404.75
2" x 6" Stainless Core Sampler w/ Hammer	#404.71
2" x 4" Stainless Core Sampler w/ Hammer	#404.70
2" x 3" Stainless Core Sampler w/ Hammer	#404.69
2" x 2" Stainless Core Sampler w/ Hammer	#404.68
1 1/2" x 12" Stainless Core Sampler w/ Hammer	#404.88
1 1/2" x 6" Stainless Core Sampler w/ Hammer	#404.72

Core Sampler Components

	Steel	Stainless
3" Top Cap, 5/8 NC Thread	#404.47	#404.57
2 1/2" Top Cap, 5/8 NC Thread	#404.43	#404.86
2" Top Cap, 5/8 NC Thread	#404.47	#404.76
1 1/2" Top Cap, 5/8 NC Thread	#404.47	#404.59
3" Signature Top Cap	#404.47	NA
2 1/2" Signature Top Cap	#404.47	NA
2" Signature Top Cap	#404.47	NA
1 1/2" Signature Top Cap	#####	NA
3" x 6" Body (Cup)	#404.46	#404.83
2 1/2" x 6" Body (Cup)	#404.42	#404.82

2 1/2" Body (Cup)	#404.54	#404.84
2" x 6" Body (Cup)	#404.35	#404.79
2" x 4" Body (Cup)	#404.34	#404.80
2" x 3" Body (Cup)	#404.33	#404.78
2" x 2" Body (Cup)	#404.32	#404.77
1 1/2" x 12" Body (Cup)	#404.00	#404.89
1 1/2" x 6" Body (Cup)	#404.40	#404.81

Core Sampler Accessories

Slide Hammer 5/8" NC Thread	#400.09
Slide Hammer Signature Series	#350.99

3" Plastic Cap (2)	#418.09 (ea)
2 1/2" Plastic Cap (2)	#404.855 (ea)
2" Plastic Cap (2)	#418.10 (ea)
1 1/2" Plastic Cap (2)	#418.08 (ea)

3" x 6" Aluminum Liner	#405.06
2 1/2" x 6" Aluminum Liner	#405.15
2" x 12" Aluminum Liner	#405.07
2" x 6" Aluminum Liner	#404.16
2" x 4" Aluminum Liner	#404.15
2" x 3" Aluminum Liner	#404.13
2" x 2" Aluminum Liner	#404.12
1 1/2" x 12" Aluminum Liner	#405.57
1 1/2" x 6" Aluminum Liner	#405.04

Core Sampler Ancillary Items

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

*Signature Series Extensions are made from yellow zinc-plated 4130 steel

	Brass	Plastic	Stainless
3" x 6" Liner	#405.17	#422.01	#405.21
2 1/2" x 6" Liner	#405.16	#406.55	#405.20
2" x 12" Liner	#405.12	#405.10	#405.14
2" x 6" Liner	#404.26	#404.21	#404.31
2" x 4" Liner	#404.25	#404.20	#404.30
2" x 2" Liner	#404.24	#404.19	#404.29
2" x 2" Liner	#404.23	#404.18	#404.28
1 1/2" x 12" Liner	#405.99	#406.53	#405.81
1 1/2" x 6" Liner	#405.11	#405.08	#405.13

Fluoropolymer Liners are available in certain sizes only, call for details.

Compact slide Hammer 5/8" NC	#400.96
Heavy Duty slide Hammer 5/8" NC	#400.93
Compact Slide Hammer Signature Series	#350.96
Heavy duty slide Hammer Signature Series	#350.93
12" Adjustable Wrench	#421.10
Slip Wrench	#421.29
2" White Basket Retainer	#404.90
fluoropolymer Swatches (50)	#418.17



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