

Soil Auger & Sampling Kits Part #209.56 [Page 34]



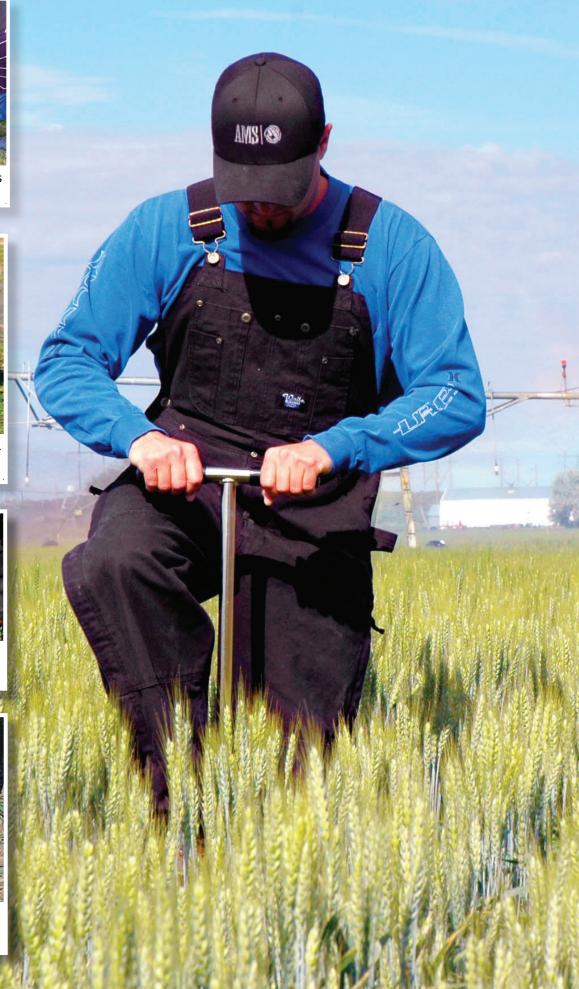
Multi-Stage Core Sampler Part #403.27 [Page 19]



Open-End Probe Part #401.10 / #401.21 [Page 31]



Soil Ejector Scoops Part #56760/ #56761 [Page 23]





AMS Soil Chapter Review	
AMS Cross Handles	Page 4
AMS Connection Types	Page 4
AMS Extensions	Page 5
Soil Augers	Page 5
Soil Core Samplers	Page 18
Core Samplers	Page 18
Multi-Stage Core Samplers	Page 19
Split-Core Samplers	Page 20
Soil Probes	Page 22
Soil Auger & Sampling Kits	Page 34
Soil Auger Kits	Page 34
3 1/4" Fiberglass Auger Kit	Page 35
Deluxe Fiberglass Auger Kit	Page 35
Core Sampling Kits	Page 36
Split-Core Sampling Kits	Page 36
Basic Soil Sampling Kits	Page 37
Environmental Soil Sampling Kits	Page 38
Soil Classification Kit	Page 38
3 1/4" Hex Quick Pin Basic Sampling Kit	Page 39
Soil Fertility Kits	Page 40
Professional Soil Sampling Kits	Page 41
Flighted Auger Kits	Page 42
Quick Connect Flighted Auger Kits	Page 43
Hollowstem Lead Auger Kits	Page 44
Frozen Soil Auger Kit	Page 45

AMS Cross Handles

Rubber-Coated Cross Handle

Rubber-Coated Cross Handle

Rubber-Coated Cross Handle

Rubber-Coated Cross Handle

Item

Rubber-Coated Cross Handle

Ratcheting Cross Handle

Ratcheting Cross Handle

Ratcheting Cross Handle

Ratcheting Cross Handle

Weight

1.1 lb.

2.4 lb.

Weight

1.3 lb.

2.5 lb.

1.6 lb.

Weight

1.1 lb.

2.1 lb.

Weight

1.3 lb.

2.4 lb.

Signature Series, Cross Handles

Length Item

3/4" Threaded, Cross Handles

5/8" Threaded, Cross Handles

Quick Connect, Cross Handles

Length Item

Length Item

Part #

351.54 18'

351.56

Part #

406.87

Part #

406.04

406.80

306.06 18'

306.07

402.31 18"

18'

18' 406.05 22"

18"

18"

Part # Length

18'



AMS 18" and 22" rubber-coated handles are made of chromoly and are coated with textured rubber. The 18" rubber-coated handles are available with signature series, 3/4" threaded, 5/8" threaded, and guick connect connections. 22" models are only available with a 3/4" threaded connection. Ratcheting handles are available with signature series, 3/4" threaded, 5/8" threaded, and quick connect fittings. They are made of durable carbon steel, and have an open-gear mechanism that allows for easy cleaning of the gear and cog. Quick connect ratcheting handles allow for reverse ratcheting.

AMS Connection Types

AMS signature series, threaded, and quick connect connections are used to connect AMS cross handles or slide hammers to AMS extensions, auger heads, and samplers. Each connection type has advantages that will make it more appropriate for particular uses or users. Please take into consideration that not all items will be available in every connection type. See the descriptions below for more information. Adapters are also available (page 76). Contact AMS if you are unsure which connection type to use.

Helpful Tips for Using Signature Series and Threaded Connections

AMS recommends using non-adhesive fluoropolymer tape and wrench-tightening AMS threaded and signature series connections to help prevent the components from being damaged during heavy use and to minimize wear and tear over time. This also helps prevent threaded components from being difficult to disconnect after use with a slide hammer, hammer-head cross handle, or after hard twisting with a standard cross handle or ratcheting handle.





AMS Signature Series Connections

Signature series components feature a heavier thread than 5/8" threaded connections. They are generally more robust and last longer under heavy use. Signature components can be connected and disconnected with only 2 1/2 turns, and have less risk of galling. Our most popular slide hammers, augers, core samplers, and soil sampling kits are available with signature series connections.

AMS 3/4" & 5/8" Threaded Connections

AMS 5/8" and 3/4" threaded connections use standard, national course, threads. 3/4" are used with the new AMS professional line of augers and samplers. 5/8" connections are the most common and least expensive. Augers, core samplers, probes, slide hammers, hammer-head handles, and kits are available with threaded connections.

AMS Quick Connect Connections

The AMS guick connect button-and-hex coupling system allows components to connect and disconnect faster and with less hassle than threaded or signature series systems. When in use, the torque exerted on the system is placed on the hex - rather than threads - which makes the quick connect connection durable and prevents the components from binding together. Quick connect connections also allow for reverse augering with either a rubber-coated cross handle or ratcheting cross handle. Most augers and some soil sampling kits are available with AMS quick connect connections, but the connections are not compatible with AMS slide hammers or the hammer-head cross handle.

Information Available on AMS Website



AMS Extensions 🛞

Signature series extensions feature zinc-coated chromoly for added rust resistance. 3/4" threaded connections are made of powder-coated chromoly or chromoly steel. 5/8" threaded and quick connect extensions are either chromoly or stainless steel.

Signature Series Extensions

Part #	Length	Material	Weight
351.00	1'	Plated	0.8 lb.
351.01	2'	Plated	1.2 lb.
351.02	3'	Plated	1.7 lb.
351.03	4'	Plated	1.7 lb.
351.04	5'	Plated	2.4 lb.
	and the state of the	the State of State of State of State	And in case of the local division of the loc

3/4" Threaded Extensions

Part #	Length	Material	Weight
407.01	1'		1.0 lb.
407.02	2'		1.5 lb.
407.03	3'		2.0 lb.
407.04	4'		2.5 lb.
407.05	5'		3.0 lb.
402.33	3'	Coated	2.0 lb.
402.32	4'	Coated	2.5 lb.

5/8" Threaded	Extensions		
Part #	Length	Material	Weight
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.
	The second second second	AND IN THE OWNER OF THE	Second of Second state

Ouick Connect Extensions

Part #	Length	Material	Weight
309.00	1'		1.9 lb.
309.01	2'		2.3 lb.
309.02	3'		2.7 lb.
309.03	4'		3.2 lb.
309.04	5'		3.6 lb.
309.06	1'	SST	1.9 lb.
309.07	2'	SST	2.4 lb.
309.08	3'	SST	2.8 lb.
309.09	4'	SST	3.2 lb.
309.10	5 '	SST	3.7 lb.

AMS Soil Augers

Most AMS soil augers are used to collect disturbed soil samples at or near the surface and for boring to depths where samples may be obtained with a soil probe or soil core sampler. They can also be used to bore deeper holes and are generally limited by only the time and muscle of the user. Customers have augered deeper than 100' using AMS soil augers in a variety of soil conditions!

AMS augers are available in all stainless steel for EPA testing, or with heat-treated, high-carbon steel bits with tungsten carbide hard-surfaced edges for general soil sampling and augering.

Standard Features:

- Most models are available with threaded or quick connect connections.
- Augers use a rounded bail for added torque resistance. Reinforced bucket auger options are also available.
- Augers create holes up to 1/4" larger than the cylinder to minimize drag.
- Specially formed bits allow for easy penetration into most soil conditions.
- Most models are available in stainless steel for environmental sampling and easier decontamination.
- Powered options are available.
- Left-handed augers, extensions and cross handles are available.
- Replacement bits and repair services are available.

AMS Bucket Augers 🛞

For over 60 years, AMS augers have been the preferred standard for manually creating boreholes and collecting disturbed soil samples. The first AMS auger was created in 1942 for the US Soil Conservation Service. This popular model has since been modified into a variety of regular augers, mud augers, and sand augers.

AMS Bucket Auger Connection Types

Regular, mud, and sand augers are available with either signature series, 3/4" threaded, 5/8" threaded, or quick connect connections. Each connection has advantages for particular users as well as for specific applications. Ensure the sampling components you intend to use together all have the same connections, and please take into consideration that not all items will be available in every connection type.

See page 4 for more information about each connection type, or contact AMS for details.

AMS Bucket Auger Material Types

AMS bucket augers are available in carbon steel and stainless steel models. Both models use stainless steel cylinders. Carbon steel models feature heat-treated, high-carbon steel bits with tungsten carbide hard-surfaced edges. Stainless steel models use stainless steel bails, cylinders, and bits; they are ideal for environmental sampling and EPA testing. Carbon steel models are available with any of our connection types. Stainless steel models are available with 5/8" threaded and quick connect connections.

New AMS 3/4" Professional Augers

#402.27

#402.25

The new professional series augers have been beefed up from bit to bale. They feature the trusted AMS 3/4" threaded connection and have thicker (11 gauge) cutting teeth with stronger welds and extra tungsten carbide hard surfacing. Professional augers are also reinforced with extra gussets welded at both the top and bottom of the bail. The gussets help prevent the bail from bending or twisting when augering into hard or rocky soils, or when the augered hole is exceptionally deep. Professional augers are perfect for those who want to have the strongest, most durable connection on all of their augers, extensions, cross handles, slide hammers, core samplers, and split-core samplers. Many of the new professional components have also been improved, and 3/4" threaded connections can be added to most AMS augers and core samplers for just \$25. Professional series extensions are constructed of a larger 1" diameter chrome molybdenum tubing and are powder-coated safety orange for additional rust resistance. The redesigned 10 lb. rubber-coated slide hammer is equipped with a more robust 3/4"-diameter inner slide bar, and the split-core samplers feature a thicker (.800") top cap for increased durability.

All of the components created for the new professional line have also been put into our newest, strongest, and most impressive manual soil sampling kits to date. The new AMS professional soil sampling kits come with 3/4" threaded professional regular auger and mud auger (2 1/4" or 3 1/4"), as well as three 4' extensions, a 10 lb. slide hammer, split-core sampler (2" x 6" or 1 3/8" x 6"), plastic liner, two end caps, 18" rubber-coated handle, rock breaker kit, and more. See page 41 or contact AMS customer service for more information.



Part #	Diamter	Weight
402.38	4"	3.5 lb.
402.25	3 1/4"	2.9 lb.
402.26	2 3/4"	2.4 lb.
402.36	2 1/4"	1.7 lb.

3/4" Threaded, Professional Mud Auger

Part #	Diameter	Weight
402.39	4"	3.3 lb.
402.27	3 1/4"	2.6 lb.
402.28	2 3/4"	2.3 lb.
402.37	2 1/4"	1.5 lb









Regular Auger 🛞 🔠 🌇

The AMS regular auger is used to obtain disturbed soil samples in most soil types at or near the surface and for gaining access to sampling points where soil samples may be obtained with a separate soil sampler. The bits of the regular soil auger are open to allow entry of small soil clumps and relatively small rocks and particles. #417.06

Signature Series, Regular Auger

Part #	Diameter	Material	Weight
350.05	4"		3.6 lb.
350.06	3 1/4"		2.6 lb.
350.07	2 3/4"		2.1 lb.
350.08	2 1/4"		1.7 lb.

3/4" Threaded, Regular Auger

Part #	Diameter	Material	Weight
400.02	7"		9.5 lb.
400.03	6"		7.8 lb.

5/8" Threaded, Regular Auger

Part #	Diameter	Material	Weight
400.04	5"		4.3 lb.
400.05	4''		3.5 lb.
400.06	3 1/4"		2.6 lb.
400.07	2 3/4"		2.1 lb.
400.08	2 1/4"		1.7 lb.
400.09	2"		1.4 lb.
400.10	1 3/4"		1.2 lb.
400.11	1 1/2"		0.9 lb.
417.08	5"	SST	4.0 lb.
417.07	4"	SST	3.5 lb.
417.06	3 1/4"	SST	2.6 lb.
417.05	2 3/4"	SST	2.1 lb.
417.04	2 1/4"	SST	1.7 lb.
417.03	2"	SST	1.5 lb.
417.02	1 3/4"	SST	1.2 lb.
417.01	1 1/2"	SST	0.9 lb.

Quick Connect, Regular Auger

-	, 5	5	
Part #	Diameter	Material	Weight
300.02	7"		8.2 lb.
300.03	6"		4.6 lb.
300.04	5"		3.8 lb.
300.05	4"		2.9 lb.
300.06	3 1/4"		2.4 lb.
300.07	2 3/4"		2.0 lb.
300.08	2 1/4"		1.8 lb.
300.09	2"		1.6 lb.
300.10	1 3/4"		1.3 lb.
300.11	1 1/2"		1.3 lb.
317.08	5"	SST	4.6 lb.
317.07	4"	SST	4.0 lb.
317.06	3 1/4"	SST	3.0 lb.
317.05	2 3/4"	SST	2.5 lb.
317.04	2 1/4"	SST	3.0 lb.
317.03	2"	SST	1.9 lb.
317.02	1 3/4"	SST	1.7 lb.
317.01	1 1/2"	SST	1.3 lb.



Mud Auger 🛞 🔠 🌇

Mud augers utilize a lasercut, open cylinder design for easy removal of heavy, wet, or clay soils. The AMS mud auger features two openings in the cylinder wall to facilitate emptying as well as widely-spaced bits to ease entry of sticky soils.

#300.18

Signature Series, Mud Auger

Part #	Diameter	Material	Weight
350.17	4"		2.7 lb.
350.18	3 1/4"		1.6 lb.
350.19	2 3/4"		1.9 lb.
350.20	2 1/4"		1.6 lb.

3/4" Threaded, Mud Auger

Part #	Diameter	Material	Weight
400.12	7"		9.0 lb.
400.15	6"		7.4 lb.

5/8" Threaded, Mud Auger

meter N	۱aterial ۱	Neight
		ncigitt
5"		4.3 lb.
4"		3.3 lb.
1/4"		2.3 lb.
3/4''		1.9 lb.
1/4"		2.3 lb.
2"		1.5 lb.
3/4"		1.2 lb.
1/2''		1.0 lb.
5"	SST	3.8 lb.
4"	SST	3.4 lb.
1/4''	SST	2.3 lb.
3/4"	SST	2.0 lb.
1/4"	SST	1.7 lb.
2"	SST	1.5 lb.
3/4"	SST	1.2 lb.
1/2"	SST	1.0 lb.
	5" 4" 1/4" 3/4" 1/4" 2" 3/4" 1/2" 5" 4" 1/4" 3/4" 1/4" 2" 3/4" 1/4" 2" 3/4"	4" 4" 1/4" 3/4" 2" 3/4" 2" 3/4" 5" 5 \$ST 4" \$ST 1/2" 5 \$ST 1/4" \$ST 1/4" \$ST 1/4" \$ST 2" \$ST 2" \$ST 3/4" \$ST 3/

Quick Connect, Mud Auger

Part #	Diameter	Material	Weight
300.12	7"		8.5 lb.
300.15	6"		7.7 lb.
300.16	5"		4.4 lb.
300.17	4"		3.6 lb.
300.18	3 1/4"		2.6 lb.
300.19	2 3/4"		2.3 lb.
300.20	2 1/4"		2.0 lb.
300.21	2"		1.8 lb.
300.22	1 3/4"		1.5 lb.
300.23	1 1/2"		1.2 lb.
318.08	5"	SST	5.6 lb.
318.07	4"	SST	3.2 lb.
318.06	3 1/4"	SST	2.8 lb.
318.05	2 3/4"	SST	2.4 lb.
318.04	2 1/4"	SST	2.8 lb.
318.03	2"	SST	1.9 lb.
318.02	1 3/4"	SST	1.6 lb.
318.01	1 1/2"	SST	1.3 lb.

AMS Soil Sampling | 7

Sand Auger 🛞 🔠

Sand augers use a closed bit design with a restricted opening to prevent the loss of sampled material during retrieval. The inner edges of the sand auger bits touch at their mid point to make the sand auger more reliable in loose, unconsolidated soil conditions.

#400.40

Signature Series, Sand Auger

Part #	Diameter	Material	Weight
350.39	4"		3.5 lb.
350.40	3 1/4"		2.6 lb.
350.41	2 3/4"		2.1 lb.
350.42	2 1/4"		1.7 lb.

3/4" Threaded, Sand Auger

Part #	Diameter	Material	Weight
400.36	7"		10.7 lb.
400.37	6"		7.8 lb.

5/8" Threaded, Sand Auger

Part #	Diameter	Material	Weight
400.38	5"		4.3 lb.
400.39	4"		3.5 lb.
400.40	3 1/4"		2.6 lb.
400.41	2 3/4"		2.1 lb.
400.42	2 1/4"		1.7 lb.
400.43	2"		1.5 lb.
400.44	1 3/4"		1.2 lb.
400.45	1 1/2"		1.0 lb.
419.08	5"	SST	4.0 lb.
420.07	4"	SST	3.6 lb.
420.06	3 1/4"	SST	2.6 lb.
420.05	2 3/4"	SST	2.2 lb.
420.04	2 1/4"	SST	1.8 lb.
420.03	2"	SST	1.5 lb.
420.02	1 3/4"	SST	2.3 lb.
420.01	1 1/2"	SST	0.9 lb.

Quick Connect, Sand Auger

		0	
Part #	Diameter	Material	Weight
300.36	7"		11.1 lb.
300.37	6"		8.2 lb.
300.38	5"		4.6 lb.
300.39	4"		3.8 lb.
300.40	3 1/4"		2.9 lb.
300.41	2 3/4"		2.4 lb.
300.42	2 1/4"		2.0 lb.
300.43	2"		1.8 lb.
300.44	1 3/4"		1.6 lb.
300.45	1 1/2"		1.3 lb.
320.08	5"	SST	5.8 lb.
320.07	4"	SST	4.0 lb.
320.06	3 1/4"	SST	3.1 lb.
320.05	2 3/4"	SST	2.6 lb.
320.04	2 1/4"	SST	2.2 lb.
320.03	2"	SST	2.0 lb.
320.02	1 3/4"	SST	1.7 lb.
320.01	1 1/2"	SST	1.4 lb.

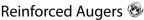
Phone: 800-635-7330

208-226-2017 Fax:

Fax: 208-226-7280

www.ams-samplers.com

8 | AMS Soil Sampling



AMS reinforced augers are adaptations of our popular regular soil, mud, and sand augers. They are specially designed for heavy-duty augering. Three additional gussets provide extra strength to help prevent the top of the auger from twisting or bending, which allow the augers to withstand unusual, and considerable amounts of power. AMS reinforced augers are available in carbon steel and stainless steel models. Both models have stainless steel cylinders. Carbon steel models feature heat-treated, high-carbon steel bits with tungsten carbide hard-surfaced edges. Stainless steel models use stainless steel bails, cylinders, and bits; they are ideal for environmental sampling and EPA testing.

Like the regular soil, mud, and sand augers, reinforced augers are available in carbon steel and stainless steel models.

Carbon steel models feature heat-treated, high-carbon steel bits with tungsaten carbide hard-surfaced edges.

Stainless steel (SST)models are ideal for EPA testing. They have SST bails, cylinders, and bits.

#413.06

5" diameter regular soil and mud augers utilize three cutting teeth, rather than two.

#400.06 Augers create a

borehole wider than the cylinder for easy removal.

(Information Available on AMS Website

#400.04



cylinder.

To remove soil from AMS augers, tip the auger and tap the

#413.05

Add the 3/4"

The top gusset

connection to your

augers for only \$25.

provides support to

It is useful in very

hard, rocky soils, or

when the augered

deep.

hole is exceptionally

The two lower gussets

help to prevent the

bail from bending at

the connection point.

help prevent twisting.

AMS Soil Sampling | 9



Reinforced Regular Augers 🥙

Reinforced regular soil augers are used to obtain disturbed soil samples and bore to depths in difficult lithologies. The bits are open to allow entry of small soil clumps and rocks.

5/8" Threaded, Reinforced Regular Auger

Part #	Diameter	Material	Weight
413.04	5"		4.3 lb.
413.05	4"		3.5 lb.
413.06	3 1/4"		2.6 lb.
413.07	2 3/4"		2.1 lb.
413.08	2 1/4"		1.7 lb.
415.31	5"	SST	4.1 lb.
415.29	4"	SST	3.5 lb.
415.27	3 1/4"	SST	2.6 lb.
415.25	2 3/4"	SST	2.1 lb.
415 23	2 1/4"	SST	17lb

Quick Connect, Reinforced Regular Auger

Part #	Diameter	Material	Weight
413.27	5"		4.6 lb.
413.29	4"		3.8 lb.
413.31	3 1/4"		2.9 lb.
413.33	2 3/4"		2.4 lb.
413.35	2 1/4"		2.0 lb.
414.17	5"	SST	4.6 lb.
414.15	4"	SST	4.0 lb.
414.13	3 1/4"	SST	3.0 lb.
414.11	2 3/4"	SST	2.6 lb.
414.09	2 1/4"	SST	3.0 lb.



Reinforced Mud Augers 🥙

Reinforced mud augers feature two openings in the cylinder wall to facilitate emptying of the collected soil. They have widely-spaced bits to ease entry of moist, sticky soils.

5/8" Threaded, Reinforced Mud Auger

Part #	Diameter	Material	Weight
413.16	5"		4.1 lb.
413.17	4"		3.3 lb.
413.18	3 1/4"		2.3 lb.
413.19	2 3/4"		1.9 lb.
413.20	2 1/4"		2.3 lb.
415.33	5"	SST	4.2 lb.
415.47	4"	SST	3.4 lb.
415.45	3 1/4"	SST	2.3 lb.
415.43	2 3/4"	SST	2.0 lb.
415.41	2 1/4"	SST	1.7 lb.

Quick Connect, Reinforced Mud Auger

Part #	Diameter	Material	Weight
413.43	5"		4.4 lb.
413.45	4"		3.6 lb.
413.47	3 1/4"		2.6 lb.
413.49	2 3/4"		2.3 lb.
413.51	2 1/4"		2.0 lb.
414.33	5"	SST	5.6 lb.
414.31	4"	SST	3.2 lb.
414.29	3 1/4"	SST	2.8 lb.
414.27	2 3/4"	SST	2.4 lb.
414.25	2 1/4"	SST	2.8 lb.



#414.71

Reinforced Sand Augers 🧐

Reinforced sand augers feature a closed bit design with a restricted opening to prevent the loss of the sampled material during retrieval. They are more reliable in loose, unconsolidated soil conditions.

5/8" Threaded, Reinforced Sand Auger

5/6 micadea/nemioreea sana nager				
Part #	Diameter	Material	Weight	
414.67	5"		4.3 lb.	
414.69	4"		3.5 lb.	
414.71	3 1/4"		2.6 lb.	
414.73	2 3/4"		2.1 lb.	
414.75	2 1/4"		1.7 lb.	
415.63	5"	SST	4.3 lb.	
415.79	4"	SST	3.6 lb.	
415.77	3 1/4"	SST	2.6 lb.	
415.75	2 3/4"	SST	2.2 lb.	
415.71	2 1/4"	SST	1.8 lb.	

Quick Connect, Reinforced Sand Auger

-	,		5
Part #	Diameter	Material	Weight
413.61	5"		4.6 lb.
413.63	4"		3.8 lb.
413.65	3 1/4"		2.9 lb.
413.67	2 3/4"		2.4 lb.
413.69	2 1/4"		2.0 lb.
414.47	5"	SST	5.8 lb.
414.61	4"	SST	4.0 lb.
414.59	3 1/4"	SST	3.1 lb.
414.57	2 3/4"	SST	2.6 lb.
414.55	2 1/4"	SST	2.3 lb.

Replacement Bits & Repair Services

Save money by repairing your regular, mud, sand, and reinforced auger bits! Contact AMS customer service. Let us know what products need repairs. We will assign you a Return Merchandise Authorization (RMA) number that you will need to write on the package you are using to return the products. We can usually repair your product within 7-10 business days and have it shipped back to you.

*Note: Costs of labor and shipping are not included.

Diameter Part # Part # 5" 415.15 400.27 4" 400.73 400.28 3 1/4" 415.30 400.29 2 3/4" 415.20 400.30 2 1/4" 400.72 400.31 2" 400.74 400.32 1 3/4" 400.71 400.34		Regular Bits	Mud Bits
4" 400.73 400.28 3 1/4" 415.30 400.29 2 3/4" 415.20 400.30 2 1/4" 400.72 400.31 2" 400.74 400.32 1 3/4" 400.71 400.33	Diameter	Part #	Part #
3 1/4" 415.30 400.29 2 3/4" 415.20 400.30 2 1/4" 400.72 400.31 2" 400.74 400.32 1 3/4" 400.71 400.33	5"	415.15	400.27
2 3/4" 415.20 400.30 2 1/4" 400.72 400.31 2" 400.74 400.32 1 3/4" 400.71 400.33	4"	400.73	400.28
2 1/4" 400.72 400.31 2" 400.74 400.32 1 3/4" 400.71 400.33	3 1/4"	415.30	400.29
2" 400.74 400.32 1 3/4" 400.71 400.33	2 3/4"	415.20	400.30
1 3/4" 400.71 400.32	2 1/4"	400.72	400.31
100105	2"	400.74	400.32
1 1/2" 400.70 400.34	1 3/4"	400.71	400.33
	1 1/2"	400.70	400.34



fixed #300.07 used #300.07

Sand Bits
Part #
423.07
423.06
423.05
423.04
423.03
423.08
423.02
423.01





Edelman Augers

These augers feature Eijkelkamp's quality edelman auger bodies combined with the versatility of the AMS 5/8" threaded, signature series, and quick connect connection systems. Eijkelkamp edelman augers are widely used for the study of soil composition, soil profiling, and soil mapping. They feature a screw-like point at the base of the auger that enters into the soil as you push and turn the auger clockwise. The soil sample is guided into the auger by two vaulted vertical cutting blades. The vaulted design promotes soil digging and ensures a firm hold of the sample in the auger. Edelman augers utilize drilling bits made of untreated steel to avoid contamination of collected soil samples. There are four types of edelman augers: combination, clay, sand, and coarse sand. The combination soil edelman (below) is the most commonly used, but the auger type should be chosen with respect to the soil conditions in order to achieve optimal results. For more augers with open bodies, see AMS open-face and dutch augers on page 11 and page 13.



Information Available on AMS Website



Signature Series, Combi Edelman Auger

-		
Part #	Diameter	Weight
401.67	2" (5 cm)	0.7 lb.
401.70	2 3/4" (7 cm)	1.1 lb.
401.73	4" (10cm)	1.7 lb.
401.76	6" (15cm)	2.9 lb.

5/8" Threaded, Combi Edelman Auger

Part #	Diameter	Weight
401.66	2'' (5 cm)	0.7 lb.
401.69	2 3/4" (7 cm)	1.1 lb.
401.72	4'' (10 cm)	1.7 lb.
401.75	6'' (15 cm)	2.9 lb.

Quick Connect, Combi Edelman Auger

Part #	Diameter	Weight
401.68	2" (5 cm)	0.7 lb.
401.71	2 3/4" (7 cm)	1.1 lb.
401.74	4'' (10 cm)	1.7 lb.
401.77	6" (15 cm)	2.9 lb.

Combination Edelman 🛞 Augers

Combination edelman augers are used in a variety of soil conditions. They retain sandy material well, and more cohesive mud and clay soils can be easily removed from the body. A one-piece combination edelman is also available. See page 16 for details.

Right Images: #401.69 Shown at multiple angles





Open-Face Augers 🕲

The unique design of the open-face auger allows for quicker penetration into combination soils. Its advanced cutting head helps the auger pull itself into the ground with little effort and yields quicker soil penetration. The cylinder is made of thick, 10 gauge, high-carbon steel. The special cutting head and thick body make the open-face auger especially useful in tough combination soils – from mud and clay to hard-pan. The open design also allows for a quick visual profile of the sample and for easy soil extraction. A one-piece open-face auger is also available. See page 16.

Signature Series, Open-Face Auger

400.56

-		-		
Part #	Diameter	Weight		
400.57	2.5"	1.3 lb.		
5/8" Threaded, Open-Face Auger				
Part #	Diameter	Weight		
400.55	2.5"	1.3 lb.		
Quick Connect, Open-Face Auger				
Part #	Diameter	Weight		

2.5"

Idaho Spoon 🕸 🚮

This zinc-plated cleanout tool is used to quickly and easily remove soil from the AMS open-face (left) auger and the one-piece openface auger (page 16).

Idaho Spoon

Part # Weight 55647 0.5 lb.



1.7 lb.



	dry, sandy soils. The nded to almost clos	
Signature Seri	es, Coarse Sand Ec	delman Auger
Part #	Diameter	Weight
401.92	2 3/4" (7 cm)	1.5 lb.
5/8" Threaded	l, Coarse Sand Ede	lman Auger
Part #	Diameter	Weight
401 91	2 3/4 in (7 cm)	15 lb

Coarse Sand Edelman Augers 🕸

Edelman coarse sand augers are used in very

Quick Connect, Coarse Sand Edelman Auger Part # Diamotor Woight

i aic #	Diameter	weight
401.93	2 3/4" (7 cm)	1.5 lb.

Clay Edelman Augers 🛞

retrieval.

Edelman clay augers have narrow

blades that minimize friction in cohesive

soils and cause little resistance during



Signature Series, Clay Edelman Auger				
	Part #	Diameter	Weight	
	401.85	2 3/4" (7 cm)	0.9 lb.	
	401.88	4'' (10 cm)	1.6 lb.	
5/8" Threaded, Clay Edelman Auger Part # Diameter Weight				
	Part #	Diameter	Weight	
	Part # 401.84	2 3/4" (7 cm)	Weight 0.9 lb.	
	i are a		5	
	401.84 401.87	2 3/4" (7 cm)	0.9 lb. 1.6 lb.	
	401.84 401.87	2 3/4" (7 cm) 4" (10 cm)	0.9 lb. 1.6 lb.	

401.87





401.81

Sand Edelman Augers 🚳

Edelman sand augers are designed with broad blades that allow them to retain excellent samples from non-cohesive, sandy soils.

Signature Series, Sand Edelman Auger

Part #	Diameter	Weight
401.79	2 3/4" (7 cm)	1.1 lb.
401.82	4'' (10 cm)	1.8 lb.

5/8" Threaded, Sand Edelman Auger

Part #	Diameter	Weight
401.78	2 3/4" (7 cm)	1.1 lb.
401.81	4" (10 cm)	1.8 lb.

Quick Connect, Sand Edelman Auger

Part #	Diameter	Weight
401.80	2 3/4" (7 cm)	1.1 lb.
401.83	4" (10 cm)	1.8 lb.

Stony Soil Augers 🛞

Stony soil augers are used in soils with significant gravel content. They are made using a heavy steel strip with cutting bits that create boreholes wider than their bodies.

Signature Series, Stony Soil Auger

Part #	Diameter	Weight
401.95	2 3/4" (7 cm)	2.1 lb.
401.98	4" (10 cm)	3.0 lb.

5/8" Threaded, Stony Soil Auger

Part #	Diameter	Weight
401.94	2 3/4" (7 cm)	2.1 lb.
401.97	4" (10 cm)	3.0 lb.

Quick Connect, Stony Soil Auger

Part #	Diameter	Weight
401.96	2 3/4" (7 cm)	2.1 lb.
401.99	4'' (10 cm)	3.0 lb.



(Information Available on AMS Website



Information Available on AMS Facebook Page

Dutch Augers

Dutch augers allow you to easily collect disturbed soil samples in heavily rooted areas. Hand forged from high-carbon steel and honed to a fine cutting edge, this auger will cut through highly fibrous and heavily rooted soils. It is excellent for use in forests, vineyards, and orchards. The unique open design of the dutch auger also allows for easier removal of hard or wet soils. The AMS dutch auger is similar in its design to the Eijkelkamp combination edelman auger. See page 11 for more details.



Signature Series, Dutch Augers					
Part #	Diameter	Weight			
350.59	3"	1.3 lb.			
350.61	2"	1.0 lb.			
5/8" Threaded, Dutch Augers					
Part #	Diameter	Weight			
400.59	3"	1.3 lb.			
400.61	2"	1.0 lb.			
Quick Connect, Dutch Augers					
Part #	Diameter	Weight			
300.59	3"	1.7 lb.			
300.61	2"	1.5 lb.			



Soil Recovery Augers

Soil Recovery Auger Replacement Parts

SOIL RECOVERY AUGER CAPS, 5/8" THREADED					
Part #	Diameter	Length	Item	Material	Weight
421.18	3 1/4"		SRA Solid Cap	SST	2.4 lb.
421.14	2 1/4"		SRA Solid Cap	SST	1.2 lb.
421.19	3 1/4"		SRA Hollow Cap	SST	1.6 lb.
421.15	2 1/4"		SRA Hollow Cap	SST	1.2 lb.
SOIL RECC	VERY AUG	ER BODY			
421.16	3 1/4"	10"	SRA Cylinder		3.8 lb.
421.17	3 1/4"	12"	SRA Cylinder		4.4 lb.
421.12	2 1/4"	8"	SRA Cylinder		2.1 lb.
421.13	2 1/4"	10"	SRA Cylinder		2.5 lb.
421.27	3 1/4"	10"	SRA Cylinder	SST	3.7 lb.
421.28	3 1/4"	12"	SRA Cylinder	SST	4.4 lb.
421.24	2 1/4"	8"	SRA Cylinder	SST	2.1 lb.
421.26	2 1/4"	10"	SRA Cylinder	SST	2.5 lb.
MISCELLA	NEOUS				
421.29			Universal Slip Wrench		1.3 lb.
LINERS & E	ND CAPS				
422.01	3"	10"	Plastic Liner		0.3 lb.
422.02	3"	12"	Plastic Liner		0.3 lb.
422.03	2"	8"	Plastic Liner		0.2 lb.
422.04	2"	10"	Plastic Liner		0.2 lb.
418.09	3"		Plastic End Caps		0.1 lb.
418.10	2"		Plastic End Caps		0.1 lb.

5/8" Threaded, Soil Recovery Augers

Part #	Diameter	Lenth	Material	Weight
421.01	3 1/4"	10"		9.2 lb.
421.02	3 1/4"	12"		10.1 lb.
421.05	2 1/4"	8"		5.7 lb.
421.06	2 1/4"	10"		6.2 lb.
421.03	3 1/4"	10"	SST	9.3 lb.
421.04	3 1/4"	12"	SST	10.1 lb.
421.07	2 1/4"	8"	SST	5.8 lb.
421.08	2 1/4"	10"	SST	6.2 lb.



Soil recovery augers (SRAs) are used to auger to depth and collect a disturbed sample into a liner. They lift soil into a liner while creating a borehole that is wider than the cylinder for easy removal. They have protective sealings to help reduce the loss of volatile compounds and a smooth finish for easy decontamination. They include a SST cylinder, hollow top cap with an attached bail, solidvented top cap, plastic liner, end caps, and a universal slip wrench. They are available with tungsten carbide hard-surfaced bits, or SST bits. They use liners that are 1/4" smaller in diameter than the cylinder. AMS also offers core and split-core samplers (pages 18-21). Disposable core samplers that allow for field extraction, extrusion, and preservation are also available (page 127).

*Note: Samples may not be suitable for some VOC analysis.

Triple-Lead Flighted Screw 🛞 Augers

AMS triple-lead flighted screw augers are able to bore holes in compacted soil lithologies to allow the user to collect a disturbed soil sample. They weigh less than regular flighted screw augers, and they are constructed using carbon steel and a precise heat-treating and hardening process - making them some of the strongest soil augers available. Flighted auger sampling kits that utilize powered drills are also available for those who need to go deeper, faster. See pages 42-45 for more information on powered kits.

* Not For Use w/ Rotary Hammer Drills

5/8" Threaded, Triple-Lead **Flighted Screw Augers**

Part #	Diameter	Length	Weight
424.60	1 1/4"	18"	2.0 lb.
424.61	1 1/2"	18"	2.0 lb.

Flighted Screw Augers 🐯

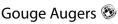
AMS flighted screw augers are capable of creating a borehole in tough, hardened soil conditions - allowing the user to collect a disturbed sample. These robust augers are made of carbon steel and feature singletwisted flighting with smooth edges that allow for easy soil penetration.

5/8" Threaded, Flighted Screw Augers				
Diameter	Length	Weight		
2"	12"	2.2 lb.		
1 3/4"	12"	1.8 lb.		
1 1/2"	12"	1.5 lb.		
	Diameter 2" 1 3/4"	Diameter Length 2" 12" 1 3/4" 12"		

Quick Connect, Flighted Screw Augers				
	Part #	Diameter	Length	Weight
	305.01	2"	12"	4.8 lb.
	305.03	1 3/4"	12"	3.6 lb.
	305.02	1 1/2"	12"	3.0 lb.



are made for hardened soils. #405.05



AMS gouge augers are designed for sampling wet clay and peat. They have a long, tapered stainless steel, semi-cylindrical chamber that is perfect for collecting undisturbed samples from very soft, wet soils while minimizing disturbance to any soft cohesive layers. When a gouge auger is pushed into the soil, twisted, and recovered, it can completely display a full and virtually undisturbed soil profile of peaty soil. Gouge augers are made of stainless steel. If necessary, use a slide hammer to push the gouge auger into the soil and to help pull it out. See page 74 for details.

#405.02



5/8" Threaded, Gouge Augers

	, . .	J		
Part #	Diameter	Length	Material	Weight
54545	1 1/4"	40''	SST	4.3 lb.
53764	2 1/2"	40''	SST	10.2 lb.



Samples collected with gouge augers can be viewed immediately. #54545



#400.51

Planer Augers 🕲

AMS planer augers remove loose soil and other materials from the bottoms of already augered holes. They have a cutting blade on the underside of the auger cylinder. The flat, slotted design of the planer auger head allows it to remove loose material from the bottom of a borehole in preparation for the collection of a soil core sample, or to conduct geotechnical testing. Planer augers have a carbon steel bail, stainless steel cylinder and tungsten carbide hard surfaced cutting blade.

5/8" Threaded, Planer Augers

		-
Part #	Diameter	Weight
400.51	3 1/4"	2.0 lb.
400.52	2 3/4"	1.6 lb.
400.53	2 1/4"	1.3 lb.

#54545

#424.60

Soil Auger Field Kits

Soil auger field kits combine the preferred auger size of professionals all over the world with our most popular components. These kits are available with signature series, 3/4" threaded, 5/8" threaded, and quick connect connections. They come with a 3 1/4" regular auger, 4' extension, and an 18" rubber-coated handle.



Signature Series,

3 1/4" Regular Soil Auger Field Kit Part # Item Weight 400.141 3 1/4" Sig. Auger Field Kit 6.0 lb. REPLACEMENT PARTS 350.06 3 1/4" Regular Auger 2.7 lb. 351.03 4' Series Extension 1.7 lb. 351.54 18" Rubber-Coated Handle 1.1 lb.



3/4" Threaded, Professional 3 1/4" Regular Soil Auger Field Kit Part # Item Weight 400.143 3 1/4" Pro Auger Field Kit 6.5 lb.

	,	
REPLAC		
402.25	3 1/4" Regular Auger	2.9 lb.
402.32	4' Extension	2.0 lb.
402.31	18" Rubber-Coated Handle	1.3 lb.



5/8" Threaded, 3 1/4" Regular Soil Auger Field Kit

51/41	legular son Auger Field i	NIC .		
Part #	Item	Weight		
400.14	3 1/4" Reg. Auger Field Kit	5.3 lb.		
REPLACEMENT PARTS				
400.06	3 1/4" Regular Auger	2.6 lb.		
408.03	4' Extension	2.3 lb.		
406.04	18" Rubber-Coated Handle	1.3 lb.		

Quick Connect,

3 1/4" Regular Soil Auger Field Kit						
Part #	Item	Weight				
400.142	3 1/4" QC Auger Field Kit	7.7 lb.				
REPLACE	MENT PARTS					
300.06	3 1/4" Regular Auger	2.9 lb.				
309.03	4' Extension	3.2 lb.				
306.06	18" Rubber-Coated Handle	1.3 lb.				



0

0

#400.141

Phone: 800-635-7330

208-226-2017

#400.142

#400.14

One-Piece Regular Soil & Mud 🛞 Augers

AMS one-piece regular augers and mud augers are powder-coated for rust-resistance and have an attached 16" rubber-gripped cross handle. They are inexpensive, lightweight alternatives for anyone who does not need to bore holes deeper than 4'. The 4" models are perfect for quickly digging post holes because they eliminate the back and shoulder jarring caused by traditional post-hole diggers. They are made of powder-coated chromoly, carbon steel, and stainless steel. They are 53" in length.

One-Piece Regular Soil Augers

	Part #	Diameter	Length	Weight	ıt	
	400.48	2 3/4"	53"	4.1 lb.		
	400.46	4"	53"	5.5 lb.		
One-Piece Mud Augers						
	Part #	Diameter	Length	Weight		
	400.49	2 3/4"	53"	4.1 lb.		

One-Piece Open-Face Auger 🛞

This thick, one-piece design, with its unique, hand-formed aggressive cutting head, pulls itself into the ground with little effort from the user. The one-piece open-face auger quickly penetrates through combination soils, from mud or clay to hard pan. The openface design is especially useful for obtaining quick visual profiles and provides for easy soil extraction. The attached 16" rubber-gripped handle gives it a total length of 48" and can be used to auger to 3' below the ground surface. The auger is made of gold zincplated chromoly.

One-Piece Open-Face Auger

Diameter

Length

Weight

Part #

One-Piece Combination 🛞 Edelman Auger

The one-piece combination edelman auger has a total length of 48" and is capable of augering as deep as 3'. The attached 16" rubber-gripped handle is welded to the steel shaft which is also welded to an Eijelkamp combination edelman auger head. It is versatile, lightweight and easy to use. It requires no assembly in the field and works well in a variety of soil conditions. The one-piece combination edelman auger is made of high-carbon steel and gold zinc-plated chromoly.

One-Piece Combination Edelman

Length

48"

Weight

3.0 lb.

Diameter

2 3/4"

Part #

400.50

400.47	4" 53"	5.5 lb.	400.54	2 1/2"	48"	4.1 lb.	400.50	2 3/4 (7cm)	48 (122 cm)	3.0 lb. (1.4 kg)
400.47	Pow (orang	5.5 lb.	400.54	2 1/2"	48"	4.1 lb.	Gold-zinc p for added resistanc	lated	48 (122 cm)	3.0 ID. (1.4 kg)
the second	D0.46 Auger Head	the second	400.49 Juger Head		#4 Open-Face	00.54 e Auger Head		Cc	#400.5 ombination Auger H	50 Edelman ead

AMS Soil Sampling | 17

406.81

#406.84 (*Optional)

Telescoping Augers

AMS telescoping auger systems extend to 8'! These auger setups are 5' 4" long when not extended. They are designed for easy transport and storage, and they come with a rubber-gripped handle, outer extension, inner extension, auger head - regular, mud, or sand - and three snap pins. The snap-pins are used to lock the cross handle, extensions, and auger head together. To enhance the performance of this auger, order the optional 18" ratcheting cross handle. Various additional auger heads may be ordered separately. The augers included in these kits have carbon steel bails, stainless steel cylinders, and high-carbon steel bits with tungsten carbide hardsurfacing. The handles and extensions are made of chromoly. Contact AMS customer service for more information.

-

Telescoping Regular Soil Auger Kits

Part #	Diameter	Weight
301.68	2 1/4"	6.9 lb.
301.67	2 3/4"	7.2 lb.
301.66	3 1/4"	7.7 lb.
301.65	4"	8.6 lb.

Telescoping Mud Auger Kits

Part #	Diameter	Weight
301.80	2 1/4"	5.7 lb.
301.79	2 3/4"	6.0 lb.
301.78	3 1/4"	7.4 lb.

Telescoping Sand Auger Kits

 Part #
 Diameter
 Weight

 301.90
 3 1/4"
 7.9 lb.

and the second second

Each telescoping extension includes an inner and outer extension along with three snap pins. #301.19

Telescoping Replacement Parts & Accessories

relescoping heplacement raits a necessories					
Part #	Diameter	Length	ltem	Weight	
301.08	2 1/4"		Telescoping Regular Auger	1.8 lb.	
301.20	2 1/4"		Telescoping Mud Auger	1.6 lb.	
301.42	2 1/4"		Telescoping Sand Auger	1.8 lb.	
301.07	2 3/4"		Telescoping Regular Auger	2.8 lb.	
301.19	2 3/4"		Telescoping Mud Auger	1.8 lb.	
301.41	2 3/4"		Telescoping Sand Auger	2.8 lb.	
301.06	3 1/4"		Telescoping Regular Auger	2.5 lb.	
301.18	3 1/4"		Telescoping Mud Auger	2.2 lb.	
301.40	3 1/4"		Telescoping Sand Auger	2.7 lb.	
301.05	4"		Telescoping Regular Auger	3.6 lb.	
301.17	4"		Telescoping Mud Auger	3.3 lb.	
301.39	4"		Telescoping Sand Auger	3.5 lb.	
407.35		4'- 8'	Telescoping Extension	4.4 lb.	
406.81		18"	Telescoping Cross Handle	0.8 lb.	
406.84		18"	Telescoping Ratcheting Handle	2.1 lb.	
MISCEL	LANEOUS				
12766			Snap Pin	0.1 lb.	
NU. 104411-04	A CONTRACTOR OF CONTRACTOR	NUMBER OF STREET		ere an	

#301.67 Non-Extended Length: 5"4' Partially Extended Length: 6' 6" Fully Extended Length: 8'

Phone: 800-635-7330

208-226-2017

18 | AMS Soil Sampling

Soil core samplers are used to collect virtually undisturbed soil samples for soil profiling and environmental investigations. A core sample may be collected at the surface or from the bottom of a pre-augered borehole. Samples may be collected into aluminium, brass, stainless steel, or plastic liners, or directly into the body of a split-core sampler for immediate examination of the sample.

Soil Core Sampler Application:

- Insert a suitable liner (if necessary).
- Thread the top cap and appropriate tip (if needed) to the cup and tighten.
- Attach your extension to the top cap.
- Attach a slide hammer or cross handle to the extension and tighten.
- To collect a core sample using a cross handle, twist the cross handle clock-wise while pressing down. If using a slide hammer, raise the hammer and allow it to fall to drive the sampler into the soil. Remove the sampler by pulling up on the handle, or by reverse hammering.
- Disconnect the sampler from the extension. Keeping the sampler vertical, remove the top cap. If using a liner, remove the liner and push your plastic end caps onto each end of the liner.
- Clean the sampler and ensure that all soil particles are removed from the threads. Use a wire brush if necessary.

Core Sampler Cup & Cap 🚳

Core samplers allow the user to collect relatively undisturbed soil core samples from the subsurface or pre-augered boreholes. Samples are collected into liners that may be properly prepared and transferred to a lab for soil profiling or chemical analysis. The liner may also be extruded in the field for immediate examination of the core sample. Core samplers include a sampler body (cup) and a cap. They are made using carbon steel or stainless steel (SST) and sized by the OD of the liner. Core sampling kits are available. See page 36.

*Note: The AMS 3/4in connection may be added to core samplers for only \$25. Special lengths are also available. Contact AMS for details. Slide hammers and extensions may be ordered separately. See page 74 - 75.

Signature Series, Core Sampler Cup & Caps

Part #	Diameter	Length	Material	Weight
354.16	2"	6"		2.9 lb.
354.15	1 1/2"	6"		2.1 lb.

5/8" Threaded, Core Sampler Cup & Caps

Part #	Diameter	Length	Material	Weight
404.38	1 1/2"	6"		2.1 lb.
403.96	1 1/2"	12"		3.3 lb.
404.07	2"	2"		2.0 lb.
404.08	2"	3"		2.2 lb.
404.09	2"	4"		2.4 lb.
404.10	2''	6"		2.9 lb.
404.49	2''	12"		4.2 lb.
404.51	2 1/2"	6"		3.9 lb.
404.48	3"	6"		4.9 lb.
404.72	1 1/2"	6"	SST	2.5 lb.
404.88	1 1/2"	12"	SST	3.5 lb.
404.68	2"	2"	SST	2.2 lb.
404.69	2"	3"	SST	2.5 lb.
404.70	2"	4"	SST	2.8 lb.
404.71	2"	6"	SST	3.5 lb.
404.75	2"	12"	SST	5.3 lb.
404.73	2 1/2"	6"	SST	4.5 lb.
404.74	3"	6"	SST	5.8 lb.







#404.10

Core Sampler Complete

Save up to 7% by ordering a complete set-up that includes the regular core sampler cup and cap, a regular slide hammer, plastic liner, and two plastic end caps.



Signature Series, Core Sampler Completes

	Part #	Diameter	Length	Material	Weight
l	354.26	2"	6"		13.1 lb.
	354.25	1 1/2"	6"		12.3 lb.

5/8" Threaded, Core Sampler Completes

Part #	Diameter	Length	Material	Weight
404.39	1 1/2"	6"		12.3 lb.
403.97	1 1/2"	12"		13.5 lb.
404.02	2"	2"		12.2 lb.
404.03	2"	3"		12.5 lb.
404.04	2"	4"		12.6 lb.
404.05	2"	6"		13.1 lb.
404.50	2"	12"		14.4 lb.
404.44	2 1/2"	6"		14.1 lb.
404.45	3"	6"		15.1 lb.
404.64	1 1/2"	6"	SST	12.7 lb.
404.87	1 1/2"	12"	SST	13.6 lb.
404.60	2"	2"	SST	12.4 lb.
404.61	2"	3"	SST	12.7 lb.
404.62	2"	4"	SST	13.0 lb.
404.63	2"	6"	SST	13.7 lb.
404.67	2"	12"	SST	15.5 lb.
404.65	2 1/2"	6"	SST	14.7 lb.
404.66	3"	6"	SST	16.0 lb.



Information Available on AMS Facebook Page

Signature Series, Core Sampler Caps

-					
Part #	Diameter	Length	Material	Weight	
354.01	1 1/2"			0.8 lb	
354.02	2"			1.2 lb	
354.03	2 1/2"			1.7 lb	
354.04	3"			2.4 lb	

5/8" Threaded, Core Sampler Caps

Part #	Diameter	Length	Material	Weight
404.41	1 1/2"			0.8 lb
404.36	2"			1.2 lb
404.43	2 1/2"			1.7 lb
404.47	3"			2.4 lb
404.59	1 1/2"		SST	0.8 lb
404.76	2"		SST	1.2 lb
404.86	2 1/2"		SST	1.8 lb
404.57	3"		SST	2.4 lb

Core Sampler Cups

Part #	Diameter	Length	Material	Weight
404.40	1 1/2"	6"		1.2 lb
404.00	1 1/2"	12"		2.3 lb
404.32	2"	2"		0.7 lb
404.33	2"	3"		0.9 lb
404.34	2"	4"		1.1 lb
404.35	2"	6"		1.5 lb
404.54	2"	12"		2.7 lb
404.42	2 1/2"	6"		2.0 lb
404.46	3"	6"		2.4 lb
404.81	1 1/2"	6"	SST	1.3 lb
404.89	1 1/2"	12"	SST	1.7 lb
404.77	2"	2"	SST	0.8 lb
404.78	2"	3"	SST	1.0 lb
404.80	2"	4"	SST	1.2 lb
404.79	2"	6"	SST	1.7 lb
404.84	2"	12"	SST	2.9 lb
404.82	2 1/2"	6"	SST	1.9 lb
404.83	3"	6"	SST	2.4 lb

Plastic Liners, End Caps, & Core Catchers

Diameter	Length	ltem	Weight
1 1/2"	6''	Liner	0.1 lb.
1 1/2"	12''	Liner	0.1 lb.
2"	2''	Liner	0.1 lb.
2"	3"	Liner	0.1 lb.
2"	4"	Liner	0.1 lb.
2"	6''	Liner	0.2 lb.
2"	8"	Liner	0.2 lb.
2"	10''	Liner	0.2 lb.
2"	12"	Liner	0.2 lb.
2 1/2"	6"	Liner	0.2 lb.
3"	6"	Liner	0.2 lb.
1 1/2"	Liner En	id Cap	0.1 lb.
2"	Liner Er	id Cap	0.1 lb.
2 1/2"	Liner En	id Cap	0.1 lb.
3"	Liner Er	id Cap	0.1 lb.
2"	Core Ca	atcher	0.1 lb
2"	Eggshell Co	re Catcher	0.1 lb
	1 1/2" 2" 2" 2" 2" 2" 2" 2" 2 1/2" 3" 1 1/2" 2" 2 1/2" 3" 2 1/2" 3" 2 1/2"	1 1/2" 6" 1 1/2" 12" 2" 2" 2" 3" 2" 4" 2" 6" 2" 8" 2" 10" 2" 12" 2" 6" 2" 10" 2" 12" 2 1/2" 6" 3" 6" 1 1/2" Liner En 2 1/2" Liner En 2 1/2" Liner En 3" Liner En 2" Liner En 3" Liner En 2" Core Ca	1 1/2" 6" Liner 1 1/2" 12" Liner 2" 2" Liner 2" 3" Liner 2" 4" Liner 2" 6" Liner 2" 6" Liner 2" 6" Liner 2" 10" Liner 2" 10" Liner 2" 10" Liner 2" 6" Liner 2" 10" Liner 2" 12" Liner 2" 6" Liner 3" 6" Liner 11/2" Liner End Cap Liner End Cap 2 1/2" Liner End Cap 3" Liner End Cap 3" 2" Liner End Cap 2" 2" Core Catcher Core Catcher

Replacement Slide Hammers

Part #	Item	Weight
350.99	Signature Series Regular Slide Hammer	10.3 lb
400.99	5/8" Threaded Regular Slide Hammer	10.3 lb

Multi-Stage Core Sampler

The multi-stage core sampler allows you to collect approximately 2"-diameter relatively undisturbed soil core samples of up to 48" deep when optional 12" multi-stage extension sections are attached. The multi-stage sampler inlcudes a base section, solid cap, core tip, auger tip, universal slip wrench, 2" x 12" plastic liner, and two plastic end caps. This sampler has a diameter of 2 3/8" and accepts a 2" liner. The sampler base, optional extension section (right), vented top cap, and auger tip are made of 300 series stainless steel. The core tip is made of 400 series stainless steel.



5/8" Threaded, Multi-Stage Core Sampler

Part #	Diameter	Length	Item	Weight
403 27	2 3/8"	12"	Multi-Stage Core Sampler	9.2 lb

Multi-Stage Core Sampler Replacement Parts

Part #	Diameter	Length	Item		Weight
403.22			Multi-Stage Solid Cap	SST	1.3 lb.
403.24	2"	12"	Multi-Stage Sampler Base	SST	4.1 lb.
403.25			Multi-Stage Core Tip	SST	0.6 lb.
403.26			Multi-Stage Auger Tip	SST	0.6 lb.
405.10	2"	12"	Plastic Liner		0.2 lb.
418.10	2"		Plastic End Caps		0.1 lb.
421.29			Universal Slip Wrench		1.3 lb.

Multi-Stage Core Sampler Accessories

-	-				
Part #	Diameter	Length	Item		Weight
403.23	2 3/8"	12"	Multi-Stage Extension Section	SST	3.9 lb.
403.28	2 3/8"		Multi-Stage Valved Core Tip	SST	0.8 lb.
403.29	2 3/8"		Multi-Stage Valved Auger Tip	SST	1.2 lb.

20 | AMS Soil Sampling

How it all works.

Thread the appropriate tip into the multi-stage core sampler body. Thread the extension section into the other end of the sampler body – adding additional sections as necessary. Insert your liner(s) into the extended sampler. Thread the top cap onto the top extension section. Thread your extension(s) to your top cap, and thread your cross handle or slide hammer onto your extension.

Multi-Stage Extension Section

The multi-stage core sampler extension sections have a female top thread and a male bottom thread which allow them to connect to the multi-stage core sampler body, as well as to each other. These extension sections allow the user to extend the sampler body in order to collect samples of longer lengths. Multi-stage extension sections are made of 300-series stainless steel.



#403.23

Serrated core tips provide better cutting action & increase sample recovery in organic sediments where roots & other fibrous debris may be

present

NEW Multi-Stage Serrated Core Tip

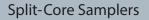


Multi-Stage Serrated Core Tip Part # Item 403.16 Multi-Stage Serrated SCS Core Tip

Multi-Stage Valved Core & Auger Tips

The one-way valve core tip and valved auger tip help retain samples in loose, unconsolidated materials when pushing or augering, respectively. These tips are made of 300-series stainless steel. AMS also offers a multi-stage sludge and sediment sampler that uses the same multi-stage sampler base section as the multi-stage core sampler. The multi-stage sludge and sediment sampler has a special vented top cap and allows for the use of a plastic core catcher that improves recovery of relatively undisturbed samples in non-cohesive, saturated materials. See pages 56 for details.

#403.28





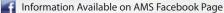
Split-core samplers are now available with 3/4" connections as part of the new Professional Sampling Kit (page 41)! These samplers have a vertically split cylinder (cup set) that allows for easy extraction of soil cores and minimizes the chance of disturbing the sample. It can be used without a liner to collect relatively undisturbed cores for immediate examination and testing, or with a liner to collect undisturbed samples to be prepared for laboratory analysis. The cup set interlocks and is held together by a vented top cap and tip. Split-core samplers include a cup set, cap, plastic liner, two end caps, universal slip wrench, and an auger tip and/or core tip – depending on the option selected. The cup set, cap and auger tip are made of heavy-wall, 300-series stainless steel; the core tip is 400-series stainless steel. Additional cup sets and a coupler are available to collect longer samples (left). Sampler ODs are 1/2" larger than liner sizes.

* Split-core samplers are now available with 3/4" connections as part of the new Professional Sampling Kit (page 41).





#403.29



* Liners, end caps, core catchers see page 78 and 79

AMS Soil Sampling | 21

Split-Core Samplers

Signature Series, Split-Core Samplers with Core Tips

Part #	Diameter	Length	Material	Weight
355.43	2 1/2"	12"	SST	7.3 lb.
355.33	2 1/2"	6"	SST	7.3 lb.
355.42	2"	12"	SST	11.0 lb.
355.32	2"	6"	SST	6.0 lb.
355.41	1 3/8"	12"	SST	7.5 lb.
355.31	1 3/8"	6"	SST	4.0 lb.

5/8" Threaded, Split-Core Samplers with Core Tips

Part #	Diameter	Length	Material	Weight
403.42	2 1/2"	6"	SST	7.3 lb.
403.43	2 1/2"	12"	SST	11.0 lb.
403.40	2"	6"	SST	6.0 lb.
403.41	2"	12"	SST	9.5 lb.
403.591	1 3/8"	6"	SST	4.0 lb.
403.592	1 3/8"	12"	SST	7.5 lb.



Split-Core Sampler Core Tips

Part #	Diameter	Material	Weight
403.51	2 1/2"	SST	0.7 lb
403.50	2"	SST	0.6 lb
403.601	1 3/8"	SST	0.5 lb

Split-Core Sampler Auger Tips

Part #	Diameter	Material	Weight
403.71	2 1/2"	SST	1.0 lb
403.69	2"	SST	0.7 lb
403.60	1 3/8"	SST	0.5 lb



Signature Series, Split-Core Sampler Caps

Signature Series, Spire			it core built	ipici cups
	Part #	Diameter	Material	Weight
	355.03	2 1/2"	SST	0.4 lb
	355.02	2"	SST	0.3 lb
	355.01	1 3/8"	SST	0.3 lb



E /O" Threaded Calit Co

5/8" Inreaded, Split-Core Sampler Caps					
Part #	Diameter	Material	Weight		
403.49	2 1/2"	SST	1.3 lb		
403.48	2"	SST	1.0 lb		
403.599	1 3/8"	SST	0.7 lb		

#403.48

Split-Core Coupling This coupling allows you to thread cup sets together.

Split-Core Coupling					
Part #	Diameter	Weight			
403.602	1 3/8"	0.3 lb.			
403.73	2"	0.3 lb.			
403.72	2 1/2"	0.4 lb.			

#403.74

Part #

403.756

403.74

403.75

Part #

403.758

403.752

403.754

Split-Core Valved Core Tips

Split-Core Valved Auger Tips

Diameter

1 3/8"

2"

2 1/2"

Diameter

1 3/8"

2"

2 1/2"

403.598

Valved Core Tips & Auger Tips AMS split-core sampler valved tips provide an efficient, affordable sludge sampling option.



#403.752

Weight

0.8 lb.

1.0 lb.

1.2 lb.

Weight

1.0 lb.

1.3 lb.

1.7 lb.

2"

2"

1 3/8"



Split-Core Sampler Cup Sets Part # Diameter 403.46 2 1/2" 403.44 403.597 1 3/8" 403.47 2 1/2" 403.45



Professional split-core caps have thicker tops and stronger threads.

Material

SST

SST

SST

SST

SST

SST

Length

6"

6"

6"

12"

12"

12"

Weight

3.0 lb

2.5 lb

1.9 lb

5.7 lb

5.1 lb

4.0 lb

#402.35

NEW! 3/4" Threaded, Split-Core Sampler Caps Part of the new professional line!

rait of the new professional line:						
Part #	Diameter	Material	Weight			
402.35	2"	SST	1.0 lb			
402.34	1 3/8"	SST	0.7 lb			

Phone: 800-635-7330

Fax: 208-226-7280

www.ams-samplers.com

http://www.facebook.com/amssampling

AMS Soil Probes

AMS soil probes are the most basic sampling tool for farmers, agricultural consultants, soil scientist, and others requiring a small diameter soil sample. Soil probes provide a simple, fast, and economic method of sample collection for soil profiling, moisture determination, and chemical analysis.

Standard Features:

- Soil probes are made of nickel-plated or unplated chromoly, or they are made entirely of stainless steel.
- All probes utilize 5/8" threaded connections and may be used with AMS 5/8" threaded extensions, cross handles, and slide hammers.
- A 10" powder-coated, rubber-gripped handle is included with all soil probes.
- Samples may be collected directly into the probe, or with certain models, into a liner.
- Liners may be prepared for off-site examination and/or laboratory analysis.
- Some models feature the unique AMS Reach-&-Grab liner removal system.
- All probes feature a heat-treated tip.
- Probe tips create holes larger than the OD of the probe body for easy removal.
- Replaceable-tip options are available for added longevity of the equipment.

Unique probe options:

- Soil ejectors, scoops, and plungers are available for easy sample removal.
- AMS slide hammers, hammer-head cross handles, and adjustable footsteps are available for additional downforce.

Hammer-Head Cross 🛞 Handles, and Slide Hammers

AMS soil probes use a 5/8" threaded connection type, and all AMS soil probes come with a 10" cross handle. The AMS hammer-head cross handle and slide hammers are optional. The lightweight hammer-head cross handle allows the user to push or hammer the attached soil probe into the ground. By hammering the head of the cross handle with an allpurpose, impact-absorbing dead blow hammer, the user can penetrate harder soils than by manually pushing on the probe. See page 74 for more information. AMS slide hammers also provide an easier means to reach depths in harder, more difficult soil conditions. They may also assist in sample retrieval by allowing the user to back hammer - providing the upward force needed to remove the sampler. See page 74.



5/8" Threaded, Hammer-Head Handles

Part #	Size	Item	Weight
401.27	10"	Hammer-Head Handle	2.1 lb.
11677	37 oz	Dead Blow Hammer	2.4 lb.



5/8" Threaded, Slide Hammers

Part #	ltem	Weight
400.96	Compact Slide Hammer	7.7 lb.
400.99	Regular Slide Hammer	10.3 lb.





AMS Soil Ejector Scoops 🛞

Easily remove soil from 7/8" and 1 1/8"

Soil Ejector Scoops

Diameter

7/8'

1 1/8

Length

13'

13'

Weight

1.0 lb.

1.0 lb.

soil probes.

Part #

56760

56761

The heads of these ejectors fit inside of the slots in 7/8" and 1 1/8" soil probes to help remove soil from their bodies. The reverse side of the ejector is designed to remove the remaining soil from the tip of the soil probe.

AMS Soil Ejectors 🛞

Use with 7/8" soil

probes to remove

the soil from your

Diameter

7/8'

7/8'

Length

21'

33'

Weight 0.3 lb.

0.4 lb.

probe.

Part #

402.01

402.02

Soil Electors

Soil ejectors snap inside the slot of the probe and slide up as the sample enters. They are then pushed down to remove the sample from the probe. They are meant to remain inside the probe for subsequent use.

Soil Probe Liners 🛞

Order liners by the length, diameter, and material type desired. The sizes shown are the retaining cylinder size. They can be used with AMS soil recovery probes, dual-purpose soil recovery probes, replaceable-tip soil probes, and the sand & sediment probe. The 3/4" liners are used with 7/8" soil probes. 1" liners are used with 1 1/8" and 1 1/4" soil probes.

Plastic Liners

Part #	Diameter	Length	Weight			
425.07	3/4"	12"	0.1 lb.			
425.09	3/4"	24''	0.1 lb.			
425.02	1"	12"	0.1 lb.			
425.04	1"	24"	0.2 lb.			
*Note: No returns are accepted.						

End Caps 🕲

Plastic (polyethylene) end caps are used with soil probe liners to help retain the integrity of your samples.

End Cap	s		
Part #	Diameter	Weight	
425.22	3/4"	0.1 lb.	
425.18	1"	0.1 lb.	

AMS Compacted Soil Sampler Complete

Save time and energy in soil conditions where soil probes & slide hammers just won't get the job done! The AMS Compacted Soil Sampler works great for obtaining "composite" soil samples in hard compacted and frozen soils. The 1-1/16" x 21" Flighted Auger with carbide bit may be connected to any 1/2" chuck drill. The entire unit assembles/disassembles in seconds & the stainless steel footplate ensures quality samples & easy decontamination.



Stainless Steel Footplate, 5 gallon Bucket, (2) bungee cords, 12" Quick release extension) 🛞 F

213.86 ECHO EDR-260 Gas Drill 13.3 lbs. 213.81 ECHO EDR-210 Drill 13.0 lbs.

AMS Gator Probe



The AMS Gator Probe was designed with operator comfort & efficiency in mind. This one of a kind soil probe offers the benefits of a "closed end" soil probe, but the hinged jaw quickly transforms the unit into an "Open Ended" soil probe providing easy access to the entire soil core. Outfitted with a side footpeg allows the user to easily step the probe into the ground. The gator probe is ideal for composite sampling or field extraction of representative cores for subsequent analysis by a soil lab. The overall length of this probe is 42" with a sample recovery length of 12". The ID of the tip when closed is approx. 9/16" while the OD of the probe is 1". This soil probe is constructed of a heavy .109w DOM Steel for extra strength. The entire unit has been finished with nickel plating for added rust resistance. The 10" handle is fitted with rubber grips for operator comfort.

(Information Available on AMS Website

Step Probes 🕸 🛎

Built-in steps allow for additional pressure to be used to drive step probes into the soil. They are available in one- or two-piece models. The two-piece model includes a 10" rubber-gripped handle. The same handle is welded to the one-piece model. Both step probes have an outer diameter of 7/8" and cut a 1/2" x 12" soil core. They are constructed of nickel-plated chromoly, and have heat-treated tips.

One-Piece Step Probe

Part #	Diameter	Length	Item	Material	Weight
401.42	7/8"	40''	One-Piece Step Probe	Plated	1.9 lb.
5/8in Threaded, Step Probe					

Part #	Diameter	Length	Item	Material	Weight
401.40	7/8"	33"	Step Probe w/ Handle	Plated	2.5 lb.

Adjustable Footstep 🚳

The adjustable footstep is compatible with any 7/8" soil probe, 5/8" threaded extensions, and the 1" x 36" replaceable-tip soil probe. Like built-in steps, the adjustable footstep allows for additional down pressure to drive the probe into the ground. They can also sample deeper below the surface than step probes because the footstep can be adjusted to fit anywhere on your probe or extension. The adjustable footstep is made of zincplated steel.

Adjustable Footstep

Part #	Item	Material	Weight
424.58	7/8" Adjustable Footstep	Plated	2.0 lb.
424.59	1" Adjustable Footstep	Plated	2.0 lb.

*Compatible with regular soil probes, soil recovery probes, dual-purpose soil recovery probes, and 1" replaceable-tip regular soil probes. *Note: The adjustable footstep does not fit AMS gas vapor probe or tile probe extensions. It also will not fit 1 1/8" probes.



208-226-2017

Fax: 208-226-7280

Regular Soil Probes 🕸

Regular soil probes are used without liners and have a slot in the body for easy sample recovery. They come with a 10" corrosion-resistant handle, and some include the regular slide hammer. They are also compatible with the hammer-head handle. They resist bending and twisting, and they are made of chromoly, nickel-plated chromoly, or stainless steel.

#401.14

5/8" Threaded, Regular Soil Probes

Part #	Diameter	Length	Material	Weight
401.04	7/8"	21"		1.5 lb.
401.03	7/8"	33"		1.9 lb.
401.02	7/8"	21"	Plated	1.6 lb.
401.01	7/8"	33"	Plated	2.0 lb.
401.11	1 1/8"	24"	Plated	2.2 lb.
401.13	7/8"	21"	SST	1.6 lb.
401.15	7/8"	33"	SST	2.0 lb.
401.17	1 1/8"	24"	SST	3.3 lb.

5/8" Threaded, Regular Soil Probes with Regular Slide Hammer

Part #	Diameter	Length	Material	Weight
401.05	7/8"	21"	Plated	11.8 lb.
401.07	7/8"	33"	Plated	12.2 lb.
401.19	1 1/8"	24"	Plated	12.4 lb.
401.14	7/8"	21"	SST	11.7 lb.
401.16	7/8"	33"	SST	12.1 lb.
401.18	1 1/8"	24"	SST	13.5 lb.

5/8" Threaded, Hammer Options

Part #	Item	Weight	
400.96	Compact Slide Hammer	7.7 lb.	
400.99	Regular Slide Hammer	10.3 lb.	
401.27	Hammer-Head Handle	2.1 lb.	
11677	Dead Blow Hammer	2.4 lb.	



Soil Recovery Probes 🐯

Soil recovery probes allow the use of a liner for sample collection, and they feature the AMS Reach-&-Grab system. These probes include the probe body, top cap, a plastic liner, two end caps, and a removable, corrosionresistant 10" cross handle with rubber grips. They are compatible with 5/8" slide hammers and the AMS hammer-head cross handle. They are made of nickel-plated chromoly or stainless steel. The liners used are 1/8" smaller in diameter than the probe, and are 1 3/4" longer than the sampler length.

5/8" Threaded, Soil Recovery Probes

Part #	Diameter	Length	Material	Weight
424.11	7/8"	12"	Plated	2.0 lb.
424.15	7/8"	24"	Plated	2.5 lb.
424.03	1 1/8"	12"	Plated	2.2 lb.
424.07	1 1/8"	24"	Plated	2.8 lb.
424.45	7/8"	12"	SST	2.1 lb.
424.47	7/8"	24"	SST	2.5 lb.
424.41	1 1/8"	12"	SST	2.8 lb.
424.43	1 1/8"	24"	SST	4.4 lb.

Dual-Purpose Soil Recovery Probes

Dual-Purpose soil recovery probes have a slot in the probe body and allow for the collection of samples directly into the probe or into a liner. They feature the AMS Reach-&-Grab system, and use liners that are 1/8" smaller in diameter and 1 3/4" longer than the probe dimensions. They include the probe body, top cap, plastic liner, two end caps, and a 10" cross handle. They are made of nickel-plated chromoly or stainless steel, and they are compatible with 5/8" slide hammers and hammer-head handles.

5/8" Threaded, Dual-Purpose Soil Recovery Probes

Part #	Diameter	Length	Material	Weight
424.27	7/8"	12"	Plated	1.9 lb.
424.31	7/8"	24"	Plated	2.3 lb.
424.19	1 1/8"	12"	Plated	2.0 lb.
424.23	1 1/8"	24"	Plated	2.6 lb.
424.53	7/8"	12"	SST	2.0 lb.
424.55	7/8"	24"	SST	2.4 lb.
424.49	1 1/8"	12"	SST	2.8 lb.
424.51	1 1/8"	24"	SST	4.6 lb.

(Information Available on AMS Website



Replaceable-Tip Regular Soil Probe 🛞

Replaceable-tip regular soil probes include the probe body, 10" rubber-grippedb handle, a 1" zinc-plated standard tip, and a spanner wrench. The probe body is constructed using a thickwalled nickel-plated chromoly.

Replaceable-Tip Soil Recovery Probes 🛞

Replaceable-tip soil recovery probes include the probe body, top cap, 10" rubber-gripped cross handle, plastic liner, two plastic end caps, a zincplated standard coring tip, and spanner wrench. The probe body and cap are made of nickel-plated chromoly.

Replaceable - Tip Dual-Purpose Soil Recovery Probes 🛞

Replaceable-tip dual-purpose soil recovery probes include the probe body, top cap, 10" rubber-gripped cross handle, plastic liner, two plastic end caps, zinc-plated standard coring tip, and spanner wrench. The probe body and top cap are made of nickel-plated chromoly.

5/8" Threaded,

Replaceable-Tip Regular Soil Probe						
Part#	Diameter	Length	Material	Weight		
425.50	1"	36"	Plated	4.1 lb.		
425.52	1"	36"	Plated	3.8 lb.		

**425.52 has a 24" slot (See Below Image)

5/8" Threaded,

Replaceable-Tip Soil Recovery Probes

Part#	Diameter	Length	Material	Weight	
425.45	1 1/4"	12"	Plated	3.2 lb.	
425.47	1 1/4"	24"	Plated	4.5 lb.	

5/8" Threaded, Replaceable - Tip C ILD

Dual-Purpose Soli Recovery Probes							
Part#	Diameter	Length	Material	Weight			
425.65	1 1/4"	12"	Plated	3.0 lb.			
425.67	1 1/4"	24"	Plated	4.3 lb.			



Phone: 800-635-7330



The AMS Hammer-Head Soil Probe Kit features a 16"L hammer-head cross handle which can be hammered on with the (included) impact absorbing dead blow hammer. No need to lug around a heavy slide hammer anymore! A standard 10" cross handle with rubber grips also comes in the kit for regular soil conditions. Probe measures 7/8"-dia. x 33"L and is constructed of nickel plated chrome molybdenum. Hammer head is made of highcarbon, stress-proof steel.

AMS Hammer-Head Soil Probe Kit Part # Item 401.075 Hammer-Head Soil Probe Kit

The AMS Hammer-Head 'Replaceable Tip' Soil Probe Kit features a 16"L hammer-head cross handle which can be hammered on with the (included) impact absorbing dead blow hammer. A standard 10" cross handle with rubber grips also comes in the kit for regular soil conditions. Probe measures 1"-dia. x 36"L and is constructed of a thick (.109w) chrome molybdenum. Hammer head is made of high-carbon, stress-proof steel. Replaceable tips are made of nickel plated 4130 steel and are heat treated for added durability. A spanner wrench is included to help remove the tip.

AMS Hammer-Head Replaceable Tip Soil Probe Kit

Part # Item

425,501 Hammer-Head Replaceable Tip Soil Probe Kit

The AMS Hammer-Head (Rep. Tip Soil Probe Kit w/ 24" Sample Slot) features a 16"L hammer-head cross handle which can be hammered on with the (included) impact absorbing dead blow hammer. A standard 10" cross handle with rubber grips also comes in the kit for regular soil conditions. Probe measures 1"-dia. x 36"L and is constructed of a thick (.109w) chrome molybdenum. The soil probe in this kit has a 24" slot which allows the end-user to pull 0-24" soil samples in one push.

1" X 36" Plated Rep Tip Probe W/ 24" Window & Hammer Head Handle

Part # Item

425.53 1" X 36" Plated Rep Tip Probe W/ 24" Window & Hammer Head Handle



Replaceable Soil Probe Tips 🛞

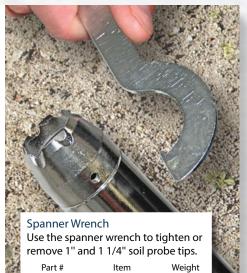
Replaceable tips allow you to increase the lifespan of your equipment, and the variety of tip options allow you to sample in various soil conditions more efficiently. You can increase your recovery by utilizing our standard, mud, clay, oversized, or serrated tips in the appropriate soil conditions. Replacement tips are available for 1" and 1 1/4" AMS replaceable-tip soil probes.



1 1/4" Replaceable Soil Probe Tips

1" Replaceable Soil Probe Tips

Part #	Diameter	ltem	Weight	Part #	Diameter
425.74	1"	Standard Tip	0.1 lb.	425.76	1 1/4"
56803	1"	Oversized Tip	0.1 lb.	56801	1 1/4"
56756	1"	Clay Tip	0.1 lb.	56796	1 1/4"
56757	1"	Mud Tip	0.1 lb.	56797	1 1/4"
56827	1"	Serrated Tip	0.1 lb.	56826	1 1/4"



Spanner Wrench

A CONTRACTOR

0.2 lb.

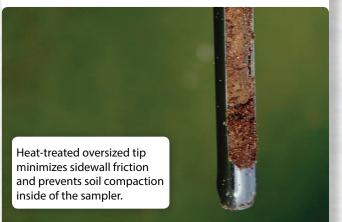
Turf Probe 🕚

Minimize damage to turf with the small diameter turf probe. The AMS turf probe is made of nickel-plated carbon steel, and it is equipped with a built-in 10" rubber-gripped handle. It has been designed to collect a small 1/2" x 7" soil sample from turf, sod, or grassed areas.

Turf Probe

Part #	Diameter	Length	Weight
427.24	1/2"	20"	1.00 lb.





Turf Profiler 🕸

Weight

0.2 lb.

0.2 lb.

0.2 lb.

0.2 lb.

0.2 lb.

The turf profiler is used to collect a replaceable wedge-shaped sample of your turf and grass in one easy step. The one-piece all stainless steel sampler collects a turf sample that is 3 1/2" wide, 1" thick, and 7" deep. The sample may be replaced or properly prepared for analysis. The sampler is provided with a detachable plate for easy sample removal. The turf profiler is ideal for soft soil conditions.

425.77

Turf Profiler

Part #	Item	Material	Weight
427.75	Turf Profiler	SST	4.1 lb.



TDR 300 Soil Sampling / Moisture Kit

Turf Soil Moisture Meters

Turf Soil Moisture Meters provide instantaneous readings of root zone soil moisture. They are based on proven time-domain measurement technology. These portable units accurately measure soil moisture across the full range of soil moisture conditions. Select from the 4.8" or 8" (12 or 20-cm) probe rods to suit your desired depth measurement.

TDR 300 Meters connect to any GPS receiver with serial output.* It is equipped with internal data logger and RS-232 port, and can record 3,250 measurements (1,350 with added GPS/DGPS options). You can configure and download meter with the included software. It is also compatible with SpecMaps online web-mapping application. This model also has two volumetric water content modes; one for standard soils and one for higher clay soils. In volumetric water content (VWC) mode, the meter converts a measured electrical signal into percent soil moisture content using an equation valid over a wide range of mineral soils. In irrigation mode, the meter displays a relative water content (RWC) on a scale of 0 to 100 corresponding to a user-defined upper and lower soil moisture reference level. Water deficit, the amount of water needed to bring the soil moisture content up to the upper reference level, is also calculated and displayed. The reference levels are easily programmed into the meter with the accompanying software. Create up to 2 management sites based on your soil types and crop needs. Use the raw reading mode (measurement period in microseconds) to do soil-specific calibrations.

The TDR 100 provides instantaneous readings of root zone soil moisture, and is ideal for measuring containers. The probe block comes with a 5-foot (1.5m) cable. This unique model combines a compact handheld display connected to a sophisticated soil water sensing probe. It is designed for easy transportation without data logging capability or geo-referenced measurements.

The TDR 300 Turf Soil Moisture Meter Kit includes the TDR 300 meter, an AMS Turf Probe, two 4.8" SST Rods, two 8.0" SST Rods, and a soft-sided carrying case.

*GPS interface requires two cables. The GPS/DGPS cable (item 2950CV5) is available from Spectrum. A PC serial interface cable supplied by the manufacturer of the GPS receiver is also required.

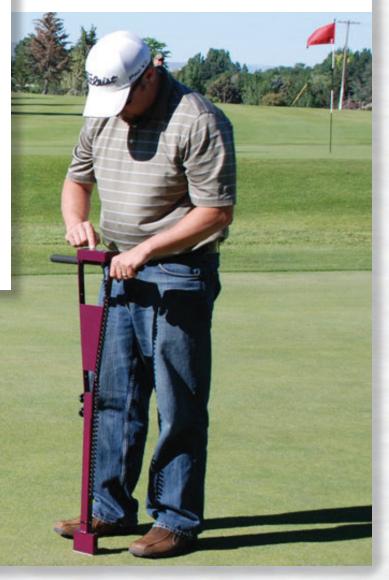


* The TDR 300 Turf Soil Moisture Meter Kit includes the TDR 300 meter, an AMS Turf Probe, two 4.8" SST Rods, two 8.0" SST Rods, and a soft-sided carrying case.

TDR 300 Soil Sampling / Moisture Kit

Part # Item

- 70044 TDR 300 Soil Sampling / Moisture Kit
- 70040 TDR 300 Moisture Meter W/ Carrying Case (* Does not Include Rods)
- 70041 TDR Rods Two 4.8" (12.0 cm) Rods
- 70042 TDR Rods Two 8.0" (20.0cm) Rods





Brown Moisture Probe



The brown moisture probe allows you to determine moisture depth quickly and easily. Agronomists and farmers use it to determine the depth of moisture following irrigation. This 43" probe has an auger tip and depth markings at 1', 2' and 3' from the tip. The probe is pushed into the soil using the attached 10" rubber-gripped handle. It will easily penetrate saturated soils but not dry soils. At the end of the push the probe is twisted and then withdrawn. A small ball on the tip helps retain the sample in the auger flights to allow visual confirmation of the moisture condition of the soil sample. The probe is made of unplated carbon steel.



Open-End Probes



Open-end probes collect shallow soil samples (15" in length). They are primarily used for agricultural applications. The probe body is made from nickel-plated chromoly. The 15" slot in the probe is cut to the end of the probe body to facilitate emptying of the sample. It includes a 10" handle.

5/8" Threaded, Open-End Probes

Part #	Diameter	Length	Material	Weight
401.10	1 1/8"	33"	Plated	2.1 lb.
401.21	7/8"	33"	Plated	4.1 lb.

Part# 401.10

208-226-2017 Fax

Fax: 208-226-7280

32 | AMS Soil Sampling

Tile Probes

				#401.26	
Tile Probes	;				
Part #	Diameter	Length	Item		Weight
402.97		48"	One-Piece Fiberglass Tile Probes		1.2 lb.
403.02		42"	One-Piece Tile Probe		1.7 lb.
403.01		60''	One-Piece Tile Probe		2.2 lb.
402.93		36"	Two-Piece Tile Probe		1.4 lb.
403.06	7/16"	3'	Extendable Tile Probe		2.4 lb.
403.03	7/16"	4'	Extendable Tile Probe		2.9 lb.
403.10	5/8"	3'	Extendable Tile Probe		3.3 lb.
403.09	5/8"	4'	Extendable Tile Probe		4.3 lb.

Extendable Tile Probe Replacement Parts

Part #	Diameter	Length	Item	Weight
401.26		10"	Rubber-Gripped Handle	0.9 lb.
403.12			5/8" NC male to 5/8" NF female Adapter	0.3 lb.
426.23			5/8" NC male to 7/16" NF female Adapter	0.3 lb.
403.05	7/16"	3'	Tile Probe Extension	1.6 lb.
403.04	7/16"	4'	Tile Probe Extension	2.1 lb.
403.11	5/8"	3'	Tile Probe Extension	3.2 lb.
403.08	5/8"	4'	Tile Probe Extension	4.2 lb.
426.22	7/16"		Coupling	0.1 lb.
427.20	5/8"		Coupling	0.1 lb.
402.90	7/16"		Extendable Tile Probe Tip	0.1 lb.
403.13	3 5/8"		Extendable Tile Probe Tip	0.2 lb.

AMS tile probes are used to locate buried pipes, underground tanks, and utility lines. They are available in high-carbon, stress-relieved steel and fiberglass models. AMS offers one-piece, two-piece, and extendable tile probes.

The AMS 48" fiberglass tile probe features a built-in, rubber-gripped 9" fiberglass handle. It has a 5/8"-diameter pointed steel tip that is 1 3/4" in length. The fiberglass shaft provides some protection from electric shock, should an electric cable be penetrated. One- and two-piece steel tile probes are available. One-piece tile probes have an attached 10" rubber-gripped cross handle. The two-piece probe includes a detachable handle and a 3/8" oversized ball tip that does not penetrate objects under the ground - which helps prevent electric shock and leakages. Steel tile probes are constructed using high-carbon stress-relieved 3/8" steel rods.

AMS extendable tile probes are available in 7/16" or 5/8" diameters with 3' or 4' extensions. They are made of unplated, high-carbon, stress-relieved steel. Included with each extendable tile probe are the probe extension, tile probe tip, handle/ hammer adapter, and a 10" cross handle. They are used for probing to deeper depths than standard tile probes, and they are also used to prepare boreholes for small diameter soil or gas vapor probes. At deeper depths, use an AMS slide hammer (sold separately). See page 74 for details.



#403.10 or 403.09 #403.02





are easily replaceable. and the second a





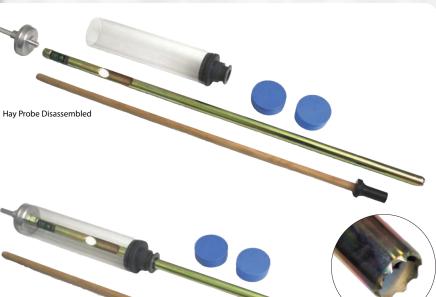
Hay & Forage Probe

Hay & forage probes are ideal for obtaining 12" or 24" representative core samples for quick visual inspection and laboratory analysis. They use a 7/8" OD probe with a heat-treated serrated tip and chamfered extraction slot. For best results, the sampler should be emptied with the extraction tool after each core has been taken. This will eliminate unnecessary compaction and will provide a more accurate core.

The basic hay probe includes the probe body, 1/2" drill adapter, and hay probe plunger. Core samples from this model are emptied into a bucket or sample bag. The deluxe hay probe includes the probe body, top cap with drill adapter, bottom cap with retainer snap ring, 3" x 12" (1 liter) plastic liner, and two 3" plastic end caps. The plastic liner can hold approximately 20 samples. It is removed by unscrewing the top cap with built-in drill adapter. The sample can be emptied into a bag or the liner can be sealed with plastic end caps and sent to the lab.

The probe body is made of gold-zinc plated chromoly and has a heat-treated serrated tip. Both models require a 1/2"-chuck drill (24V recommended).

(You III



Hay Probe Assembled

5/8" Threaded Hay Probe

Part #	Diameter	Length	Item	Weight
56864	7/8"	12"	Basic Hay & Forage Probe	1.5 lb.
57067	7/8"	24"	Basic Hay & Forage Probe	2.0 lb.
57051	7/8"	12"	Deluxe Hay & Forage Probe	3.5 lb.
57068	7/8"	24"	Deluxe Hay & Forage Probe	4.0 lb.

Extendable Tile Probe Replacement Parts

Part #	Item	Weight
213.50	1/2" Gas Drill Adapter	0.4 lb.
57049	Hay Core Cup Top Cap	1.0 lb.
57048	Hay Core Cup Bottom Cap	1.0 lb.
12363	Hay Core Probe Retainer Snap Ring	0.1 lb.
57071	Hay Core Probe Plunger	0.3 lb.
422.02	3" x 12" Plastic Liner	0.4 lb.
418.09	3" Liner End Cap	0.1 lb.



115 8 15 41

Phone: 800-635-7330

208-226-2017

34 | AMS Soil Sampling

AMS soil sampling kits provide complete sampling systems that utilize our most popular augers and sampling equipment.

Most AMS soil sampling kits include soil augers, core samplers, extensions, cross handle, slide hammer, and either a lightweight or heavy-duty carrying case. Carrying cases allow your soil sampling kits to be very portable and easy to keep organized. You can also purchase items from AMS sampling kits individually to replace worn parts or to create your own custom soil sampling kits.

Many AMS auger and sampling kits are available for rent. Contact AMS for more information about renting. Please make sure any accessories you intend to use with your AMS soil sampling kits use the same connection that is used in the kit. See page 4 information on AMS connection types, and pages 74-81 for accessories.

Soil Auger Kits

These are complete, compact setups for augering to depths of 12' or 16'. Soil auger kits include one regular and one mud auger (2 1/4" or 3 1/4"), four extensions (3' or 4'), an 18" rubber-coated cross handle, and a flexible, poly-canvas carrying case for easy transport and storage. They are available with either signature series, 5/8" threaded, or quick connect connections. Stainless steel kits are popular for environmental sampling.



Signature Series, Soil Auger Kits

Part#	Diameter	Length	Material	Weight
352.77	2 1/4"	3'		12.0 lb.
352.73	3 1/4"	3'		14.0 lb.
352.79	2 1/4"	4'		12.0 lb.
352.74	3 1/4"	4'		14.0 lb.



of high-carbon steel with heat-treated tungsten carbide hard-surfaced edges.



5/8" Threaded, Soil Auger Kits

Part#	Diameter	Length	Material	Weight
209.73	2 1/4"	3'		11.0 lb.
209.33	2 1/4"	4'		14.0 lb.
209.71	3 1/4"	3'		14.0 lb.
209.31	3 1/4"	4'		14.0 lb.
209.74	2 1/4"	3'	SST	11.0 lb.
209.34	2 1/4"	4'	SST	14.0 lb.
209.72	3 1/4"	3'	SST	14.0 lb.
209.32	3 1/4"	4'	SST	17.0 lb.



Stainless steel (SST) kits have SST extensions and augers made with SST bails, cylinders, and bits.



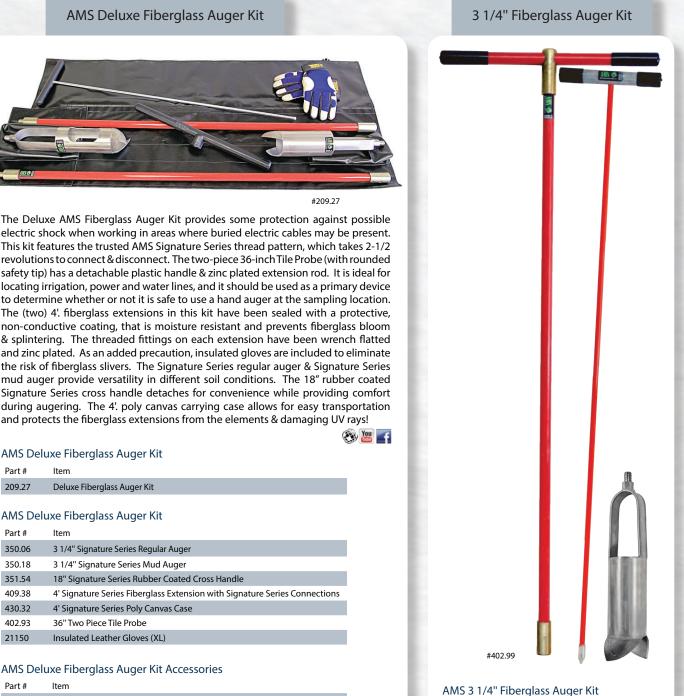
Quick Connect, Soil Auger Kits

		,	5		
Pa	rt#	Diameter	Length	Material	Weight
20	9.78	2 1/4"	3'		19.0 lb.
20	9.38	2 1/4"	4'		22.0 lb.
20	9.76	3 1/4"	3'		19.0 lb.
20	9.36	3 1/4"	4'		22.0 lb.
20	9.79	2 1/4"	3'	SST	19.0 lb.
20	9.39	2 1/4"	4'	SST	19.0 lb.
20	9.77	3 1/4"	3'	SST	19.0 lb.
20	9.37	3 1/4"	4'	SST	22.0 lb.



Information Available on AMS Facebook Page

AMS Soil Sampling | 35



Part # Item 351.56



The AMS Fiberglass Auger Kit provides some protection against possible electric shock when working in areas where buried electric cables may be present. The one-piece 48" Fiberglass Tile Probe included in the kit is ideal for locating irrigation, power and water lines, and it should be used as a primary device to determine whether or not it is safe to use a hand auger at the sampling location.

3-1/4" Fiberglass Auger Kit

Part #

402.99

Item

Part #

209.27

Part #

350.06

350.18

351.54

409.38

430.32

402.93

21150

208-226-2017

Fax: 208-226-7280

AMS core sampling kits provide all of the components needed to collect a virtually undisturbed soil core sample as deep as 12' into a liner. The kits utilize 5/8" threaded or signature series connections. They include a 3 1/4" regular auger, four 3' chromoly extensions, 18" rubber-coated handle, 2" x 6" core sampler, slide hammer, 2" x 6" plastic liner, two end caps, two 12" cresent wrenches, universal slip wrench, and a flexible poly-canvas carrying case.

#209.07

5/8" Threaded, Core & Split-Core Sampling Kits

Part	Diameter	Length	Item	Material	Weight
209.07	3 1/4"	3'	Core Sampling Kit		32.5 lb.
209.05	3 1/4"	3'	Split-Core Sampling Kit	SST	32.5 lb.

Signature Series, Core & Split-Core Sampling Kits

Part #	Diameter	Length	Item	Material	Weight
352.54	3 1/4"	3'	Core Sampling Kit		32.5 lb.
352.55	3 1/4"	3'	Split-Core Sampling Kit		32.5 lb.

Soil Core & Split-Core Sampling Kits Replacement Parts

Part #	Diameter	Length	Item	Material	Weight
406.04		18"	5/8" Rubber-Coated Handle		1.1 lb
351.54		18''	Sig. Rubber-Coated Handle		1.1 lb
400.99			5/8" Regular Slide Hammer		10.3 lb
350.99			Sig. Regular Slide Hammer		10.3 lb
400.06	3 1/4"		5/8" Regular Soil Auger		2.6 lb
417.06	3 1/4"		5/8" Regular Soil Auger	SST	2.6 lb
350.06	3 1/4"		Sig. Regular Soil Auger		2.7 lb
408.02		3'	5/8" Extension		1.7 lb
409.08		3'	5/8" Extension	SST	1.7 lb
351.02		3'	Sig. Extension		1.7 lb
404.10	2"	6"	5/8" Core Sampler		
403.40	2"	6"	5/8" Split-Core Sampler	SST	
354.16	2"	6"	Sig. Core Sampler		
355.32	2"	6"	Sig. Split-Core Sampler	SST	
421.29			Universal Slip Wrench		1.3 lb
421.10		12"	Crescent Wrench		1.7 lb
430.00		3'	Poly-Canvas Case		2.5 lb

AMS core sampling kits provide all the components needed to auger to 12' and then collect a virtually undisturbed soil core sample into a liner.

Split-Core Sampling Kits



AMS split-core sampling kits provide everything you need to auger to 12' and collect a virtually undisturbed soil core sample into the split-core sampler body or into a liner. The kits utilize 5/8" threaded or signature series connections, and all of the augering and sampling components are made entirely of stainless



steel (SST) - except the yellow zinc-coated chromoly signature extensions and signature series augers. The kits include a 3 1/4" regular auger, four 3' extensions, 18" rubber-coated handle, regular slide hammer, 2" x 6" split-core sampler, 2" x 6" plastic liner, two end caps, two cresent wrenches, universal slip wrench, and poly-canvas carrying case. See page 4 for information on 3 1/4" regular and SST soil auger heads, page 20 for more information on splitcore samplers, and pages 74-81 for information about AMS handles, extensions, and slide hammers. 🛞 f

(Information Available on AMS Website



Basic Soil Sampling Kits



AMS basic sampling kits provide everything you'll need to auger to a target depth as deep as 12' and obtain a relatively undisturbed soil core sample. The kits are used worldwide by soil scientists, agronomists, and construction companies for site investigations.

They are available with signature series or 5/8" threaded components, and with either 2 1/4" or 3 1/4" augers. Each kit comes with a regular, mud, and sand auger. The kits also include three 4' extensions, 18" rubber-coated cross handle, regular slide hammer, core sampler (1 $1/2" \times 6"$ or $2" \times 6"$), plastic liner, two plastic end caps, cleaning brush, universal slip wrench, and two cresent wrenches. All the components fit securely in a foamlined, poly-reinforced AMS deluxe carrying case with handles and wheels for added portability.



#352.51

Signature Series, Basic Soil Sampling Kits

Part #	Diameter	Item	Weight
352.53	2 1/4"	Signature Basic Soil Sampling Kit	56.0 lb.
352.51	3 1/4"	Signature Basic Soil Sampling Kit	60.0 lb.

Signature Series, Basic Soil Sampling Kits Replacement Parts and Accessories

Part #	Diameter	Length	Item	Weight
350.08	2 1/4"		Sig. Regular Auger	1.7 lb.
350.20	2 1/4"		Sig. Mud Auger	1.6 lb.
350.42	2 1/4"		Sig. Sand Auger	1.7 lb.
350.06	3 1/4"		Sig. Regular Auger	2.7 lb.
350.18	3 1/4"		Sig. Mud Auger	1.6 lb.
350.40	3 1/4"		Sig. Sand Auger	2.6 lb.
354.15	1 1/2"	6"	Sig. Core Sampler Cup & Cap	2.1 lb.
404.10	2"	6"	Sig. Core Sampler Cup & Cap	2.9 lb.
351.54		18"	Sig. Rubber-Coated Cross Handle	1.1 lb.
350.99			Sig. Series Reg. Slide Hammer	10.3 lb.
351.03		4'	Sig. Series Extension	1.7 lb.
421.10		12"	Crescent Wrench	1.7 lb.
421.29			Universal Slip Wrench	1.3 lb.
430.11	1 1/2"	12"	Nylon Brush	0.2 lb.
430.07	2"	12"	Nylon Brush	0.2 lb.
430.01			AMS Deluxe Carrying Case 1750	29.0 lb.
EXPE	NDABLES			
405.08	1 1/2"	6"	Plastic Liner	0.1 lb.
404.21	2"	6"	Plastic Liner	0.2 lb.
418.08	1 1/2"	Plastic E	nd Cap	0.1 lb.
418.10	2"	Plastic E	nd Cap	0.1 lb.
ACCE	SSORIES			
351.56		18"	Sig. Series Ratcheting Cross Handle	2.4 lb.



#209.51

5/8" Threaded, Basic Soil Sampling Kits

Part #	Diameter	Item	Weight
209.53	2 1/4"	Basic Soil Sampling Kit	56.0 lb.
209.51	3 1/4"	Basic Soil Sampling Kit	60.0 lb.

5/8" Threaded, Basic Soil Sampling Kits

Replacement Parts and Accessories

Replacement Failts and Accessories				
Part #	Diameter	Length	Item	Weight
400.08	2 1/4"		5/8" Thread Regular Auger	1.7 lb.
400.20	2 1/4"		5/8" Thread Mud Auger	2.3 lb.
400.42	2 1/4"		5/8" Thread Sand Auger	1.7 lb.
400.06	3 1/4"		5/8" Thread Regular Auger	2.6 lb.
400.18	3 1/4"		5/8" Thread Mud Auger	2.3 lb.
400.40	3 1/4"		5/8" Thread Sand Auger	2.6 lb.
404.38	1 1/2"	6"	Core Sampler Cup & Cap	2.9 lb.
404.10	2"	6"	Core Sampler Cup & Cap	2.9 lb.
406.04		18"	Rubber-Coated Cross Handle	1.3 lb.
400.99			5/8'' Thread Reg. Slide Hammer	10.3 lb.
408.03		4'	5/8" Thread Extension	2.3 lb.
421.10		12"	Crescent Wrench	1.7 lb.
421.29			Universal Slip Wrench	1.3 lb.
430.11	1 1/2"	12"	Nylon Brush	0.2 lb.
430.07	2"	12"	Nylon Brush	0.2 lb.
430.01			AMS Deluxe Carrying Case 1750	29.0 lb.
EXPENDABLES				
405.08	1 1/2"	6"	Plastic Liner	0.1 lb.
404.21	2"	6"	Plastic Liner	0.2 lb.
418.08	1 1/2"	Plastic End	l Cap	0.1 lb.
418.10	2"	Plastic End	Гар	0.1 lb.
ACCESSORIES				
406.80		18"	5/8" Thread Ratcheting Cross Handle	2.1 lb.

38 | AMS Soil Sampling



#209.55

Environmental Soil Sampling Kits These kits are used for sampling in soils where there is potential for contamination below the ground surface. They use stainless steel (SST) components that allow for easy decontamination. Samples can be collected, prepared, and submitted for appropriate laboratory analysis. Environmental kits are available in two sizes, 2 1/4" and 3 1/4".



5/8" Threaded, Environmental Soil Sampling Kits

Part #	Diameter	ltem	Material	Weight
209.57	2 1/4"	Environmental Soil Sampling Kit	SST	58.0 lb.
209.55	3 1/4"	Environmental Soil Sampling Kit	SST	62.0 lb.
209.58	2 1/4"	Deluxe Environmental Soil Sampling Kit	SST	68.0 lb.
209.56	3 1/4"	Deluxe Environmental Soil Sampling Kit	SST	72.0 lb.

5/8" Threaded, Environmental Soil Sampling **Kits Replacement Parts and Accessories**

Part #	Diameter	Length	ltem	Material	Weight
417.04	2 1/4"		5/8" Thread Regular Auger	SST	1.7 lb.
418.04	2 1/4"		5/8" Thread Mud Auger	SST	1.7 lb.
420.04	2 1/4"		5/8" Thread Sand Auger	SST	1.8 lb.
417.06	3 1/4"		5/8" Thread Regular Auger	SST	2.6 lb.
418.06	3 1/4"		5/8" Thread Mud Auger	SST	2.3 lb.
420.06	3 1/4"		5/8" Thread Sand Auger	SST	2.6 lb.
403.591	1 3/8"	6"	Split-Core Sampler with Core Tip	SST	4.0 lb.
403.40	2"	6"	Split-Core Sampler with Core Tip	SST	6.0 lb.
406.04		18"	Rubber-Coated Cross Handle		1.3 lb.
400.99			5/8" Thread Reg. Slide Hammer		10.3 lb.
409.09		4'	5/8" Thread Extension	SST	2.2 lb.
421.10		12"	Crescent Wrench		1.7 lb.
421.29			Universal Slip Wrench		1.3 lb.
430.21	1 1/2"	12"	Brush	SST	0.2 lb.
430.17	2"	12"	Brush	SST	0.2 lb.
430.01			Deluxe Carrying Case 1750		29.0 lb.
EXPENDABL	.ES				
406.56	1 3/8"	6"	Plastic Liner		0.1 lb.
404.21	2"	6"	Plastic Liner		0.2 lb.
418.11	1 3/8"		Plastic End Cap		0.1 lb.
418.10	2"		Plastic End Cap		0.1 lb.
ACCESSORI	ES				
406.80		18"	5/8" Thread Ratcheting Handle		2.1 lb.



Soil Classification Kit 🔇 🖉 🖬

The signature series soil classification kit was assembled for in situ soil investigations to depths of 12'. This ergonomic, userfriendly kit was built with operator comfort and efficiency in mind.

Signature Series, Soil Classification Kit

9				
Part #	Item			Weight
424.38	Signature S	Series Soi	Classification Kit	66.0 lb.
Sig. Series, S	oil Classifi	cation	Kit Replacement Parts	
Part #	Diameter	Length	Item	Weight
350.07	2 3/4"		Sig. Regular Auger	2.1 lb.
350.19	2 3/4"		Sig. Mud Auger	1.9 lb.
400.57	2 1/2"		Sig. Open Faced Auger	1.3 lb.
351.03		4'	Sig. Extension	1.7 lb.
351.56		18"	Sig. Ratcheting Cross Handle	2.4 lb.
350.99			Sig. Regular Slide Hammer	10.3 lb.
355.32	2"	6"	Split-Core Sampler with Core Tip	6.0 lb.
403.10	5/8"	3'	5/8" Thread Extendable Tile Probe Complete w/ 5/8" Cross Handle	3.3 lb.
404.21	2"	6"	Plastic Liner	0.2 lb.
418.10	2"		Plastic End Cap	0.1 lb.
421.10		12"	Crescent Wrench	1.7 lb.
421.29			Universal Slip Wrench	1.3 lb.
430.17	2"	12"	Brush SST	0.2 lb.
504.00			Munsell [®] Soil Binder with Chart	0.8 lb.
55647			Idaho Spoon	0.5 lb.
430.01			Deluxe Carrying Case 1750	29.0 lb.





3 1/4" Hex Quick Pin Basic Sampling Kit



#206.20

You asked for it and we listened. No more threaded connections! The New AMS 3-1/4" Hex Quick Pin Sampling Kit allows for collection of both disturbed & relatively undisturbed core samples down to a depth of 12'. This kit features hardened steel male/ female hex connections that accept standard 3/8" snapper pins or heat treated 3/8" U-clips. The simplicity of the snap pins is unmatched for hand auger applications, while the heat treated 3/8" U-clips will allow you to hammer & reverse hammer your core sampler with confidence. Both of these connections offer easy assembly/disassembly on site & will allow you to accomplish your sampling task quicker & more efficiently. The kit comes with three different auger types (regular, mud, sand) and enough extensions to auger down to a depth of 12'. Other kit components include a 2" x 6" core sampler with slide hammer attachment, hex quick pin cross handle, cleaning brush, universal slip wrench, ball pein hammer (for knocking U-clips in & out), (5) standard 3/8" snapper pins, (5) heat treated 3/8" U-clips. All of these components fit securely in a foam lined, poly-reinforced carrying case with handles and wheels for added portability.

AMS Hex Quick Pin Sampling Kit

/		
Pa	rt #	Item
20	6.20	3 1/4" Hex Quick Pin Sampling Kit
A٨	/IS Hex Qui	ick Pin Sampling Kit Replacement Parts
Pa	rt #	Item
11	678	Ball Pein Hammer 16 oz
12	767	Heat Treated U-Clip
12	768	Snapper Pin
40	4.21	2" X 6" Plastic Line
40	4.35	2" X 6" SCS Cup
58	507	2" Hex Quick Pin Core Sampler Cap
41	8.10	2" Plastic End Cap
42	1.29	Universal Slip Wrench
43	0.01	AMS Deluxe Carrying Case 1750
43	0.07	2" X 12" Nylon Brush
58	501	3 1/4" Hex Quick Pin Regular Auger
58	502	3 1/4" Hex Quick Pin Mud Auger
58	503	3 1/4" Hex Quick Pin Sand Auger
58	504	18" Hex Quick Pin Rubber Coated Cross Handle
58	505	Hex Quick Pin 4'. Extension
58	506	Hex Quick Pin Slide Hammer
٨N	/IS Hex Qui	ick Pin Sampling Kit Accessories
Pa	rt #	Item



306.071

Hex Quick Pin Ratcheting Cross Handle



#424.34

5/8" Threaded, Soil Fertility Slide Hammer Kits

Part #	Diameter	Item	Weight
424.36	1"	Soil Fertility Kit with Compact Slide Hammer	22.0 lb.
424.34	1 1/4"	Soil Fertility Kit with Compact Slide Hammer	22.0 lb.



#424.33

5/8" Threaded, Soil Fertility Hammer-Head Kits

Part #	Diameter	Item	Weight
424.35	1"	Soil Fertility Kit with Hammer-Head Handle	22.0 lb.
424.33	1 1/4"	Soil Fertility Kit with Hammer-Head Handle	22.0 lb.

5/8" Threaded, Soil Fertility Kits Replacement Parts



#424.34

Soil fertility kits include either a compact slide hammer or hammerhead cross handle and dead blow hammer. Both versions are available with either a 1" or 1 1/4" probe and tips. The 1 1/4" kits include a plastic liner and end caps. The 1in kits do not use liners.

Part #	Diameter	Length	Item	Weight
424.62			AMS Small Carrying Case	5.7 lb.
401.26		10"	5/8" Thread Cross Handle w/ Grips	0.9 lb.
400.96			5/8" Thread Compact Slide Hammer	7.7 lb.
401.27		12"	5/8'' Thread Hammer-Head Handle	4.3 lb.
11677			Dead Blow Hammer (37 oz.)	2.4 lb.
408.01		2'	5/8" Thread Extension	1.2 lb.
424.60	1 1/4"	18"	Triple-Lead Flighted Auger	2.0 lb.
424.61	1 1/2"	18"	Triple-Lead Flighted Auger	2.0 lb.
430.11	1 1/2"	12"	Nylon Brush	0.1 lb.
1002.10	3/4"	12"	Nylon Brush (Tapered)	0.1 lb.
424.58			Adjustable Foot Step	2.0 lb.
56975	1"		5/8'' Thread Soil Fertility Probe	1.3 lb.
56994	1 1/4"		5/8" Thread Soil Fertility Probe	1.9 lb.
56803	1"		Reg. Oversized Replacement Tip	0.1 lb.
56756	1"		Clay Replacement Tip	0.1 lb.
56757	1"		Mud Replacement Tip	0.1 lb.
56827	1"		Serrated Replacement Tip	0.1 lb.
56801	1 1/4"		Reg. Oversized Replacement Tip	0.2 lb.
56796	1 1/4"		Clay Replacement Tip	0.2 lb.
56797	1 1/4"		Mud Replacement Tip	0.2 lb.
56826	1 1/4"		Serrated Replacement Tip	0.2 lb.
56760	7/8''		Soil Ejector Scoop	1.0 lb.
56761	1 1/8"		Soil Ejector Scoop	1.0 lb.
425.77			Spanner Wrench	0.1 lb.
425.02	1"	12"	Plastic Liner	0.1 lb.
425.18	1"		Plastic End Cap	0.1 lb.

Soil Fertility Kits 🔇 🔊 🚮

AMS soil fertility kits are used by agronomists and others specializing in soil fertility. They provide everything you need for cutting and drawing samples from a variety of soil conditions. AMS soil fertility kits include a replaceable-tip soil probe (1" x 14" or 1 1/4" x 14"), along with a standard tip, clay tip, mud tip, and a serrated tip. The four tips included in each kit will allow you to increase and improve your sample recovery in a variety of soil conditions. The kits also come with a 10" cross handle, 2' extension, adjustable foot step, soil ejector scoop (7/8" or 1 1/8"), cleaning brush (3/4" x 12" or 1 1/2" x 12"), spanner wrench, triple-lead flighted auger (1 1/4" x 18" or 1 1/2" x 18"), compact carrying case and either the AMS compact slide hammer or hammer-head cross handle. Plastic liners and end caps are included with 1 1/4" kits, but are not used with 1" kits. In soft, moist, or tilled soils, use the 10" handle and, if needed, the adjustable footstep. Either the slide hammer or the hammer-head cross handle and dead blow hammer are used to pound the soil fertility probe into dry, hard-packed soils. The slide hammer also allows you to reverse hammer to assist in retrieving the sampler.



NEW! Professional Soil Sampling Kits



3/4" Threaded, Professional Soil Sampling Kits

Part #	Diameter	Item	Weight
402.23	2 1/4"	3/4" Thread, Professional Soil Sampling Kit	59.0 lb.
402.24	3 1/4"	3/4" Thread, Professional Soil Sampling Kit	63.0 lb.

3/4" Threaded, Professional Soil Sampling Kits Replacement Parts and Accessories

Part #	Diameter	Length	ltem	Material	Weight
402.25	3 1/4"		3/4" Thread, Profesional		2.9 lb.
			Regular Auger		
402.26	2 1/4"		3/4" Thread, Profesional		1.5 lb.
_			Regular Auger		
402.27	3 1/4"		3/4" Thread, Profesional Mud Auger		2.6 lb.
402.37	2 1/4"		3/4" Thread, Profesional Mud		1.5 lb.
402.37	2 1/4		Auger		1.5 ID.
402.29	1 3/8"	6"	3/4" Split-Core Sampler w/	SST	2.9 lb.
			Core Tip		
402.30	2"	6"	3/4" Split-Core Sampler w/	SST	6.0 lb.
			Core Tip		
402.34	1 3/8"		3/4" Split-Core Cap	SST	0.7 lb.
402.35	2"		3/4" Split-Core Cap	SST	1.0 lb.
402.31		18"	3/4" Thread, Rubber-Coated Handle		1.3 lb.
406.87		18"	3/4" Thread, Ratcheting Cross		2.5 lb.
			Handle		
57780			3/4" Thread, Professional Slide Hammer		10.3 lb.
402.32		4'	3/4" Thread Extension	coated	2.5 lb.
402.33		3'	3/4" Thread Extension	coated	2.0 lb.
424.001			3/4" Thread, Rock Breaker Kit		1.5 lb.
421.10		12"	Crescent Wrench		1.7 lb.
421.29			Universal Slip Wrench		1.3 lb.
430.21	1 1/2"	12"	Brush	SST	0.2 lb.
430.17	2"	12"	Brush	SST	0.2 lb.
430.01			Deluxe Carrying Case 1750		29.0 lb.
EXPEND	ABLES				
406.56	1 3/8"	6"	Plastic Liner		0.2 lb.
404.21	2"	6"	Plastic Liner		0.2 lb.
418.11	1 3/8"		Plastic End Cap		0.1 lb.
418.10	2"		Plastic End Cap		0.1 lb.

This kit is designed for soil sampling professionals who want the strongest, most durable connection on all of their new and imporoved augers, extensions, cross handles, slide hammers, and split-core samplers. They are AMS's newest and most impressive soil sampling kits to date.

AMS professional series sampling kits come with 3/4" threaded professional regular auger and mud auger (2 1/4" or 3 1/4"), as well as three 4' extensions, 18" rubber-coated cross handle, 10 lb. slide hammer, split-core sampler (2" x 6" or 1 3/8" x 6"), plastic liner, two end caps, rock breaker kit, cleaning brush, universal slip wrench, and two adjustable crescent wrenches. All of the components fit into an included AMS deluxe carrying case with handles and wheels for added portability. All of the AMS professional series components have been made stronger and more durable than our standard components, and they

feature AMS's strongest, most durable connection type. Professional series augers have been beefed up from bit to bale. They feature the trusted AMS 3/4" threaded connection and have thicker (11 gauge) cutting teeth with stronger welds and extra tungsten carbide hard surfacing. They are also reinforced with extra gussets that are welded at both the top and bottom of the bail. These gussets help prevent the bail from bending or twisting when augering into hard or rocky soils, or when the augered hole is exceptionally deep.

The professional series 3/4" threaded extensions are constructed of a larger 1" diameter chrome molybdenum tubing and are powder-coated safety orange for added rust resistance. The redesigned 10 lb. rubber-coated slide hammer is equipped with a more robust 3/4"-diameter inner slide bar that makes it more reliable and prevents bending of the bar. The new split-core sampler caps include a thicker (.800") top cap than our standard split-core samplers. The thicker top cap is designed to match up with the larger 3/4" threaded female connection of the new professional slide hammer to provide increased durability. The cap works with regular split-core cup sets. Split-core sampler can be up to 1/2" larger. The AMS 3/4" connection may also be added to core samplers as well as other components for only \$25.

See page 6 for details about AMS professional augers, and see pages 74-81 for information on the professional series slide hammer and extensions. Contact AMS customer service for more information.



208-226-2017

Flighted Auger Kits



AMS 2" flighted auger kits are equipped to drill access holes up to 9' and collect soil samples into liners using the 1 1/2" x 6" core sampler. They include 5/8" threaded male to SDS-Max adapter,1 1/2" x 6" core sampler, slide hammer, 2" flighted lead auger with hard surfaced tip, 2" carbide tip, two 2" x 3' flighted extensions, three 5/8" x 4' extensions, universal slip wrench, 1 1/2" x 12" nylon brush, and deluxe carrying case. Some kits also include a Bosch 11245 rotary hammer drill. Additional extensions may be added to obtain deeper depths.



5/8" Threaded, Flighted Auger Kits

Part #	Diameter	Item	Material	Weight
209.61	2"	Flighted Auger Kit with Bosch 11245		103.0 lb.
209.10	2"	Flighted Auger Kit (without Drill)		66.0 lb.
209.63	2"	Flighted Auger Kit with Bosch 11245	SST	110.0 lb.
209.13	2"	Flighted Auger Kit (without Drill)	SST	66.0 lb.

Flighted Auger Kits Replacement Parts & Accessories

Part #	Diameter	Length	ltem	Material	Weight
404.39	1 1/2"	6"	SCS w/ Slide Hammer		12.3 lb.
404.97	1 1/2"		Lead Auger No Tip		5.1 lb.
405.00	1 1/2"		Lead w/Hard Faced Tip		5.4 lb.
405.28	1 1/2"		Lead w/ Carbide Tip		5.4 lb.
404.99	1 1/2"		Hard Surfaced Tip		0.4 lb.
405.25	2"		Hard Surface Tip		0.7 lb.
405.23	2"		Flighted Lead Auger with Hard Surfaced Tip		6.0 lb.
404.96	2"		Flighted Lead Auger (w/out tip)		5.8 lb.
404.98	1 1/2"		Carbide Tip		0.4 lb.
405.26	2"		Carbide Tip		0.7 lb.
405.01	1 1/2"	3'	Flighted Extension		5.3 lb.
405.24	2"	3'	Flighted Extension		5.8 lb.
408.03		4'	Extension		2.3 lb.
404.64	1 1/2"	6"	Core Sampler with Regular Slide Hammer	SST	12.7 lb.
409.34	1 1/2"		Tip Only	SST	0.4 lb.
409.36	2"		Flighted Auger Tip	SST	0.4 lb.
409.30	1 1/2"	3'	Flighted Extension	SST	5.1 lb.
409.32	2"	3'	Flighted Extension	SST	5.3 lb.
409.09		4'	Extension	SST	2.1 lb.
421.29			Universal Slip Wrench		1.3 lb.
430.11	1 1/2"	12"	Nylon Brush		0.2 lb.
430.01			Deluxe Carrying Case 1750		29.0 lb.
DRILLS					
213.88	Bosch 11245	Electric Rotary Ha	mmer Drill		37.0 lb.
214.20 EXPENDABLES	5/8in Thread	ed Male to SDS-M	ax Drill Adapter		0.8 lb.
405.08	1 1/2"	6"	Plastic Liners		0.1 lb.
418.08	1 1/2"		Plastic End Caps		0.1 lb.

Quick Connect Flighted Auger Kit

This AMS kit allows users to quickly achieve depths of 9' using the recommended rotary hammer drill. The male/ female hex fittings of the quick connect connections make adding and disconnecting flighted extensions easier than ever before, and they allow for reverse augering! Quick connect connections also prevent the flighted sections from binding or locking up while augering. The lead auger tip has replaceable carbide inserts that can be replaced after they become worn. The kits include a 2" x 36" quick connect auger, 2 1/2" lead bit, 5/8" threaded female to guick connect female adapter, 5/8" threaded male to SDS-Max drill adapter, three 5/8" x 4' extensions, 1 1/2" x 6" core sampler, 5/8" regular slide hammer, quick connect rubber-coated handle, 1 1/2" x 12" nylon brush, universal slip wrench, and an AMS deluxe carrying case. 🛞 두



#209.11

Quick Connect, Flighted Auger Kit

Part #	Diameter	Length	Item	Weight
209.11	2"	36"	QC Flighted Auger Kit	72.0 lb.
209.12	2"	36''	QC Flighted Auger Kit with Bosch 11245 Drill	109 lb.

#209.11

Bore a hole with the flighted augers and collect a 1 1/2" x 6" soil core sample using the core sampler, extensions, and slide hammer. Users have sampled deeper than 16' with extra flighted extensions.

	standard et	arbide tip part# 20046 straight carbide tip part# 405.30	
ACCESSO	DRIES		1
ACCESSC Part #		Weight Pri	ce

OC Flic	ahted Auger	Kit Replacement	Parts and Access	ories

de highted Auger Artheplacement i arts and Accessones				
Part #	Diameter	Length	Item	Weight
20045	2"	36"	QC Flighted Auger	9.5 lb.
306.06		18"	QC Rubber-Coated Cross Handle	1.1 lb.
408.03	5/8"	4'	5/8" Thread Extension	2.3 lb.
404.38	1 1/2"	6''	5/8" Core Sampler Cup & Cap	2.1 lb.
400.99			5/8" Thread Regular Slide Hammer	8.0 lb.
53265			5/8" Thread Female to QC Female Adapter	0.7 lb.
214.20			5/8" Thread Male to SDS-Max Drill Adapter	0.8 lb.
213.88			Bosch 11245 Electric Rotary Hammer Drill	37.0 lb.
430.11	1 1/2"	12"	Nylon Brush	0.2 lb.
20046	2 1/2"		Flighted Auger Tip with Replaceable Carbide Bits and Hex Connection	2.0 lb.
430.01			AMS Deluxe Carrying Case 1750	28.0 lb.
421.29			Universal Slip Wrench	1.3 lb.
EXPEND	ABLES			
405.08	1 1/2"	6"	Plastic Liners	0.1 lb.
418.08	1 1/2"		Plastic End Caps	0.1 lb.

Hollowstem Auger Kits

Hollowstem Lead Auger Section 🚳

This complete dual-tube hollowstem lead auger is capable of creating a cased borehole to a depth of 3'. The lead auger sections includes an SDS-Max adapter, 3' flighted extension, inner extension rod, plug, cap, and tip. All of the components included in the hollowstem lead auger section are also included in the AMS hollowstem auger kits (right).



Hollowstem Soil Recovery Probe 🚳

The hollowstem soil recovery probe can be used telescopically through the hollowstem lead auger section. The probe is also included in hollowstem auger kits and are used through the included hollowstem augers. The probe includes a 1" x 24" hollowstem soil recovery probe body, a 5/8" threaded top cap, 3/4" x 24" plastic liner, and two 3/4" end caps.



#409.72

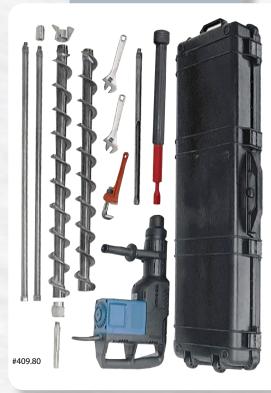
5/8" Threaded, Hollowstem Auger Kits

Part #	ltem	Weight
409.80	Hollowstem Auger Kit with Bosch 11245	103.0 lb.
209.22	Hollowstem Auger Kit (without Drill)	66.0 lb.
409.55	Hollowstem Lead Auger Section	14.0 lb.
409.72	1" x 24" Hollowstem Soil Recovery Probe	1.6 lb.

Hollowstem Auger Kit Replacement Parts & Accessories

Part #	Diameter	Length	Item	Weight
409.55			Hollowstem Lead Auger Section	14.0 lb.
409.72	1"	24"	Hollowstem Soil Recovery Probe	1.6 lb.
409.51	3'	3'	Hollowstem Flighted Extension	9.2 lb.
409.60	3'	3'	Hollowstem Inner Rod	1.7 lb.
409.58			Hollowstem Plug	0.5 lb.
409.61			Hollowstem Adapter Cap	1.0 lb.
18296			Hollowstem SRP Cap	0.5 lb.
409.75			Hollowstem Replacement Tip	0.8 lb.
409.57			Hollowstem Flighted Section with Inner Rod	10.9 lb.
409.70	7/8"	24"	Hollowstem Soil Probe	1.1 lb.
425.74	1"		Hollowstem Soil Probe Replacement Tip	0.2 lb.
213.88	Bosch 11245 Electric R	otary Hammer Drill		37.0 lb.
214.20	5/8" Thread Male to SE	DS-Max Adapter		0.7 lb.
400.99	5/8" Regular Slide Han	nmer		10.2 lb.
421.10	12" Crescent Wrench			1.7 lb.
14327	12" Pipe Wrench			2.5 lb.
430.01	AMS Deluxe Carrying	Case 1750		29.0 lb.
425.09	3/4"	24"	Plastic Liner	0.1 lb.
425.22	3/4"		Plastic End Caps	0.1 lb.

Hollowstem Auger Kits





Collect soil, soil gas, or groundwater samples telescopically through AMS hollowstem augers.

Hollowstem auger kits minimize the chance of cross contamination. The augers are capable of creating a cased borehole that is 6' deep with an inner and outer diameter of 1 1/8" and 3", respectively. Soil, gas vapor, and groundwater samples may be collected through the cased borehole. A special 24" soil probe with a 7/8" outer diameter is included to allow collection of a soil sample through the augers. The hollowstem auger kits include SDS-Max adapter, 5/8" threaded regular slide hammer, flighted lead auger, flighted extension, two 3' extensions, hard surfaced tip, cresent wrenches, nylon brush, deluxe carrying case, and optional Bosch 11245 hammer drill.

The hollowstem soil recovery probe may also be used through the augers to collect samples into a liner. Gas vapor probes (pages 48-53) and bailers (page 62) up to 1" in diameter may also be used through AMS hollowstem augers.

Frozen Soil Auger Kit



through those dreaded frozen soil conditions. The kit comes with the core barrel auger, two 1ft. hex quick pin extensions, two threaded/hex quick pin adapters, SDS-Max rotary hammer drill adapter, Idaho spoon cleanout tool, SST cleaning brush & one hard side carrying case with foam lining. The kit is designed to work with an SDS-Max rotary hammer drill, but may be adapted to a Tanaka TIA-350PFS Gas Drill for added portability.

The AMS Frozen Soil Powered Auger Kit was designed to core

Frozen Soil Powered Auger Kit Replacement Parts

	Part #	ltem	Weight
	206.10	Frozen Soil Auger Kit	17 lb.
	10142	2-3/8" Earth Core Barrel Auger w/ Carbide Teeth	2.90 lb.
	58508	(1-1/4" #7) threaded to Hex QP Adapter	1.40 lb.
	55647	Idaho Spoon (Cleanout Tool)	0.80 lb.
	430.17	2" x 12" Stainless Steel Cleaning Brush	0.15 lb.
	58509	1' Hex QP Extension	1.85 lb.
)	424.62	AMS Small Carrying Case	5.50 lb.
	58510	Hex QP to 5/8" Female Adapter	0.85 lb.
	214.20	SDS-Max Drill Adapter	0.65 lb.
	Available Ro	otary Hammer Drills	
	213.89	Bosch 11264EVS Rotary Hammer Drill	
	213.92	Dewalt Hammer Drill D25602K	
	213.88	Bosch 11245EVS Rotary Hammer Drill	
	Accessories		
	10141	2-1/4" Earth Core Barrel Auger w/ Carbide Teeth (regular soil conditions)	
	58511	1" Fem. Round- Hex QP (gas drill adapt.)	2.00 lb.
	213.78	Tanaka TIA-350PFS Gas Drill	17.0 lb.







AMS Soil Gas Chapter Review			
Gas Vapor Probe	Page 48		
GVP Assembly & Installation	Page 48		
Dedicated Gas Vapor Tip	Page 48		
Retract-A-Tip	Page 49		
Gas Vapor 6" Implant Drive Kit	Page 49		
Tubing Options	Page 50		
Sampling Collection Options	Page 50		
Original Gas Vapor Probe	Page 50		
Gas Vapor Probe Kits	Page 51		
Heavy-Duty GVP Kits	Page 52		
Heavy-Duty GVP Kits w/ Dedicated Tips	Page 52		
Heavy-Duty GVP Kits w/ Dedicated Tips and Retract-A-Tip	Page 52		
Heavy-Duty GVP Kits Replacement Parts	Page 52		
Sub-Slab GVP Kits	Page 53		
Sub-Slab GVP Kits	Page 53		
Replacement Parts and Accessories			

AMS soil gas sampling systems use fluoropolymer tubing to transfer the sample from the sampling point to the surface. Cut a length to allow for the maximum sampling depth plus some extra. Attach one end to the sampling tip and pass the other end through the first set of drive components. When each GVP extension is driven its length, remove the drive head adapter, add another GVP extension, and replace the drive head adapter before driving again. To open AMS dedicated tips, Retract-A-Tips, or gas vapor implants, pull back the GVP extension to expose the tip extraction ports.

A hand vacuum pump, electric vacuum pump, or electric vacuum station may be attached to the fluoropolymer tube to purge ambient air prior to collecting a sampling with a syringe, tedlar bag, or summa canister. To extract samples and allow them to be collected in a variety of specific procedures. Alternatively most PID and FID hydrocarbon detection instruments are provided with a positive displacement pump that may be connected to the fluoropolymer tube to obtain direct readings of hydrocarbon concentration.

The extendable tile probe may be used to check for underground obstructions. It may also be used as a pre-probing tool in non-caving soils, before installing the GVP.

AMS soil gas systems may also be used to provide a conduit for extracting groundwater samples.



Gas Vapor Probe (GVP) Assembly & Installation

AMS GVP systems are equipped with two different styles of 5/8" OD extensions: solid tile probe extensions, and hollow GVP rods. Extendable tile probe extensions are solid extensions designed to locate underground obstructions and to pre-punch pilot holes. Hollow GVP extensions allow for 1/4" OD tubing to be used through the center of the rod. AMS dedicated tips, Retract-A-Tip, or gas vapor implants can be connected to the tubing that is run through the hollow GVP extensions and driven to the target depth to begin sampling.

It is recommended that you pre-punch your hole to your target depth with the solid extendable tile probe extensions and tip. Then you can re-enter the same borehole with your hollow GVP extensions and sampling point. By doing this, you will substantially increase the life span of your equipment. The flighted auger with hard surfaced tip can be used to pre-drill boreholes in gravelly or hard soils prior to the insertion of GVP tips. Concrete bits are ideal for boring access holes through concrete and asphalt.

GVP Parts for Retrieving Sample(s)

	5	
Part #	Item	Weight
400.99	5/8" NC Regular Slide Hammer	10.3 lb.
214.105	5/8" NC Slide Hammer Adapter to 3/4in OD	0.7 lb.
214.18	SDS-Max Drill Adapter to 3/4" OD	0.8 lb.
214.045	Extension Drive Adapter to 3/4" ID	2.0 lb.
214.06	5/8" NF 3' GVP Extension	2.6 lb.
214.05	5/8" NF 4' GVP Extension	2.4 lb.
427.20	5/8" NF Extendable Tile Probe Coupling	0.1 lb.
214.09	5/8" NF GVP Tip Drive End	0.2 lb.



GVP Parts for Driving to Depth

4

Part #	Item	Weight
403.10	5/8" x 3' Extendable Tile Probe Complete	3.3 lb.
403.09	5/8" x 4' Extendable Tile Probe Complete	4.3 lb.
401.26	10" Soil Probe Cross Handle	0.9 lb.
403.12	5/8" NC Male to 5/8" NF Adapter	0.3 lb.
403.08	5/8" NF 4' Tile Probe Extension	4.2 lb.
403.11	5/8" NF 3' Tile Probe Extension	3.2 lb.
427.20	5/8" NF Extendable Tile Probe Coupling	0.1 lb.
403.13	5/8" NF Extendable Tile Probe Tip	0.2 lb.
214.22	1 1/2" Concrete Bit SDS-Max	4.2 lb.
214.26	2 1/2" Wild Bore SDS-Max	6.6 lb.
405.27	5/8" NC Male to Splined Drill Adapter	0.6 lb.
214.20	5/8" NC Male to SDS-Max Drill Adapter	0.8 lb.
405.23	2" x 36" Flighted Lead Auger with 2" Hard Surfaced Tip	6.0 lb.
405.24	2" x 36" Flighted Extension	5.8 lb.
405.26	2" Carbide Tip	0.7 lb.

Dedicated Gas Vapor Tip



Dedicated gas vapor tips are installed as long-term sampling points or left in the ground as expendable points. They are used for detecting hydrocarbon spills, underground storage tank and pipe leakages, landfill contamination, and hazardous waste sites. Soil gas monitoring with the AMS dedicated gas vapor tip is easily accomplished using a slide hammer or electric rotary hammer drill with GVP extensions and an extension drive adapter. GVP kits are available. See pages 51-53.

The unique design of the tip and accompanying fluoropolymer umbrella ensures an easy passage for the soil gas to enter the collection system. The umbrella is folded before inserting it into the end of the drive tip. After being driven to the sampling point, the drive string is retracted - allowing the tip to fall out and the umbrella to unfold. The umbrella assists in keeping the tip vapor inlets free of soil. The optional screen may also be used, particularly in fine grained soils or when sampling groundwater. The vapor inlet holes of the dedicated tips are slightly recessed and are protected by the GVP drive end to prevent them from becoming clogged during installation. These tips include the 300 series stainless steel dedicated GVP tip and fluoropolymer umbrella. The screen is sold separately. 🙉

Dedicated Tip & Replacement Parts

Part #	Item	Weight
211.00	Dedicated Gas Vapor Tip & Fluoropolymer Umbrella	0.1 lb.
212.00	Fluoropolymer Umbrella	0.1 lb.
212.05	GVP Screens	0.1 lb.
214.09	5/8in NF GVP Tip Drive End	0.2 lb.



Retract-A-Tip 🛞

This tip is driven into soil and opened for sample extraction. It is used to collect soil vapor samples below the ground surface, usually at discrete depths. It may be driven to the sampling point using an AMS slide hammer or electric rotary hammer drill with the GVP extensions and an extension drive adapter. It is connected to the surface with fluoropolymer tubing. The sampler is opened by retracting the extension string. When open, the sampling ports are exposed to the sampling area, but they are also protected from soil by a mesh screen. A vacuum applied to the fluoropolymer tube will allow recovery of gas or groundwater samples. The Retract-A-Tip includes a barbed insert, outer sleeve, inner nut, bottom nut, vapor inlet shaft, and screen. The sampler is made of 300 series stainless steel; the tip is 400 stainless steel. GVP kits are available. See pages 51-53.

Retract-A-Tip & Replacement Parts

Part #	Item	Weight
210.01	GVP Retract-A-Tip	0.6 lb.
210.05	Barbed Insert	0.1 lb.
210.06	Outer Sleeve	0.3 lb.
210.07	Inner Nut	0.1 lb.
210.08	Bottom Nut	0.1 lb.
210.09	Vapor Inlet Shaft	0.3 lb.
210.03	Retract-A-Tip Screen	0.1 lb.

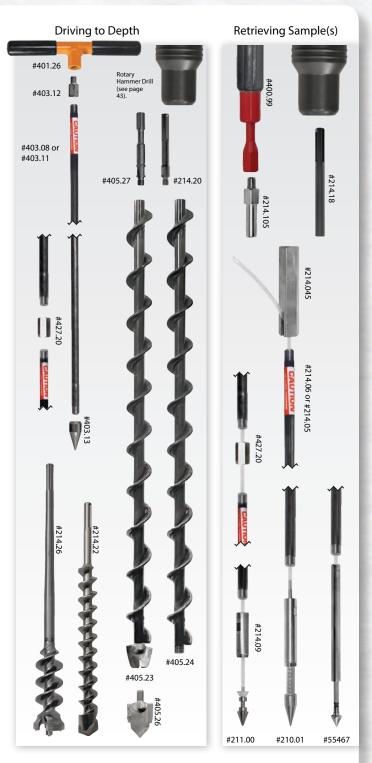
Gas Vapor 6" Implant Drive Kit

The 6" implant drive kit is used for long-term soil gas monitoring, groundwater sampling, vapor extraction monitoring, and as a pressure measurement point in vacuum testing. By placing an implant in the subsurface using GVP rods, a user can collect a sample of soil atmosphere from their target sampling horizon. Implants can also be installed using an AMS PowerProbe[™] and direct push tooling (pages 114-115). The kit includes a 6" gas vapor implant, 6" GVP implant drive end, and dedicated dummy tip. The implant drive end is made of steel, and the gas vapor implant and dummy tip are stainless steel.



Gas Vapor Implant Drive Kit & Replacement Parts

Part #	ltem	Weight
21010	6" Gas Vapor Implant	0.2 lb.
55463	GVP 6" Drive End	0.8 lb.
55466	Dedicated Dummy Tip	0.1 lb.



Rotary & Rotary Hammer Drills

Part #	Item	Weight
213.88	Bosch 11245EVS Rotary Hammer	35.0 lb.
213.92	DeWalt D25600K Rotary Hammer	25.0 lb.
GVP Accessories	;	
Part #	Item	Weight
211.05	Removal Jack	30.0 lb.
211.06	Tee Jack Adapter	1.1 lb.

208-226-2017

Tubing Options

Silicone tubing is often used as bridge tubing between the sampler fittings and either fluoropolymer or polyethylene tubing. If the correct (#15 or #16) bridge tubing is used, it creates a great seal on tubing and fittings. Fluoropolymer tubing can be used with a variety of AMS soil gas sampling



systems and can meet certain requirements for long-term monitoring, regulatory requirements, and project scopes of work. Polyethylene tubing is cost-effective for soil gas surveys. Fluoropolymer and polyethylene tubing can be used with AMS vacuum stations and pumps for collection of soil gas samples.

GVP Tubing Options

Part #	Item	Weight
5004.47	#15 x 50' Silicone Tubing	2.4 lb.
5004.48	#15 x 500' Silicone Tubing	26.9 lb.
5004.53	#16 x 25' Silicone Tubing	2.0 lb.
214.98	3/16" ID x 1/4" OD x 50' Fluoropolymer Tubing	1.1 lb.
214.99	3/16" ID x 1/4" OD x 100' Fluoropolymer Tubing	2.1 lb.
215.00	3/16" ID x 1/4" OD x 250' Fluoropolymer Tubing	5.1 lb.
215.12	3 /16" ID x 1/4" OD x 500' Polyethylene Tubing	
215.03	1/4" ID x 3/8" OD x 50' Fluoropolymer Tubing	
215.04	1/4" ID x 3/8" OD x 100' Fluoropolymer Tubing	

Sample Collection Options

The vacuum station is a portable 12-volt system and can be used for soil gas sampling. It comes with a line gauge and in-line low-flow rotometer that can be used for measurement of the vacuum applied and volume extracted.An electric vacuum pump, hand vacuum pump, tedlar bags, and syringes are also available. For more information, see page 59. For more informaiton about using AMS PowerProbe[™]soil gas sampling systems, see pages 113-115.

GVP Sample Collection Options

Part #	Item	Weight
2105.93	Sterile and Greaseless Luer Slip, 50 ml Syringe	
2105.94	Sterile and Greaseless Luer Lock, 50 ml Syringe	
2105.95	Black Syringe Caps (1,000 qty)	
2105.96	White Syringe Caps (100 qty)	
2105.97	Blue Sterile Syringe Caps (100 qty)	
2105.98	Sterile 3-way Stopcock/Valve	
2105.92	1 L Tedlar Bags (10 qty) Lot Certification (TO-14)	
2105.91	3 L Tedlar Bags (10 qty) Lot Certification (TO-14)	
2105.89	5 L Tedlar Bags (10 qty) Lot Certification (TO-14)	
2105.88	10 L Tedlar Bags (10 qty) Lot Certification (TO-14)	
215.06	Manual Vacuum Pump	1.6 lb.
5052.40	Electric Vacuum Pump (12-Volt)	1.7 lb.
5052.45	Vacuum Station (see page 59)	35.0 lb.

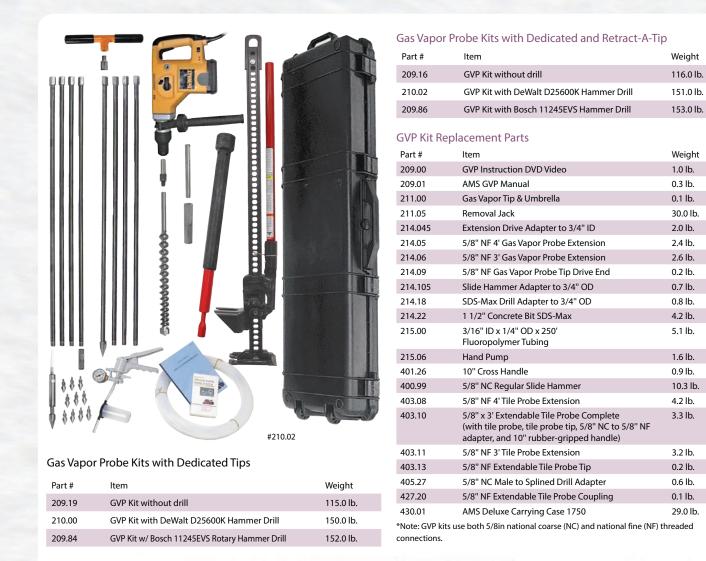
Original Gas Vapor Probe

This system is excellent for shallow gas vapor sampling in easily penetrable soils for preliminary testing. The kit includes a 10" cross handle, 1/2" x 5/8" handle/hammer adapter, barbed adapter, 3' GVP extension with liner rod, and a base section with an attached probe tip and soil gas access holes. To use the probe, attach the handle or an optional slide hammer to the probe string using the handle/ hammer adapter. Place the liner rod inside the base section when driving the probe to prevent soil entry. Both the base section and liner rod have threaded couplings for attachment to an extension with an inner rod. Replace the hammer adapter with the barbed adapter when collecting a soil gas sample.

*Note: The original GVP use both 1/2" NF and 5/8" NC connections.

Original Gas Vapor Probe Kit

Jriginal	Gas vapor Probe Kit	
Part #	Item	Weight
427.01	Original Gas Vapor Probe Kit	3.8 lb.
Original	GVP Kit Replacement Parts	
Part #	Item	Weight
401.26	5/8" Thread, 10" Cross Handle	0.9 lb.
427.04	Original GVP Base Adapter (SST)	0.3 lb.
427.06	Base Section w/ Liner Rod, Couplings & 1/2" to 5/8" Adapter	3.4 lb.
427.02	3' GVP Extension w/ Liner Rod, Coupling	3.0 lb.
427.05	4' GVP Extension w/ Liner Rod, Coupling	2.1 lb.
427.09	1/2" Coupling (SST)	0.1 lb.
427.11	GVP Barbed Adapter for 3/16" ID tubing	0.2 lb.
ACCESSO	RIES	
400.99	5/8" Reg. Slide Hammer	10 lb.
215.06	Hand Pump	1.6 lb.
214.98	3/16" ID x 1/4" x 50' Fluoropolymer Tubing	1.1 lb.



Gas Vapor Probe Kits 🕸 🖉 🚮

AMS GVP kits are excellent for monitoring and sampling hydrocarbon spill sites, underground storage tanks, and around pipelines! They use a slide hammer or an electric rotary drive hammer drill and GVP drive extensions to insert a stainless steel GVP tip to the desired sampling depth. Fluoropolymer tubing is attached to a barb fitting on the GVP tip for remote sampling from the surface. Two GVP tips are available for use with GVP kits - dedicated tips and the AMS Retract-A-Tip. The kits include ten dedicated tips with umbrellas, and some kits also include the Retract-A-Tip. Each kit also comes with a 1 1/2" wild bore concrete bit, tip drive end, four 3' GVP extensions, 3' extendable tile probe complete, three 3' tile probe extension, 3/4" ID external drive adapter, SDS-Max drill adapter, SDS-Max 1 1/2" carbide bit, slide hammer, handle/hammer adapter, hand pump, 3/16" ID x 1/4" OD x 250' fluoropolymer tubing, removal jack, AMS deluxe carrying case, GVP manual, and instruction DVD.

#210.00 Use dedicated GVP tips or the AMS Retract-A-Tip.

Phone: 800-635-7330

208-226-2017

52 | AMS Soil Gas Sampling

Heavy-Duty Gas Vapor Probe Kits

The heavy-duty gas vapor probe kits have all of the components included in the regular GVP kits (page 51), but with the added benefit of flighted augers which allow you to penetrate rocky and hard soil conditions. The kits come with two 2" x 36" flighted extensions and a 2" x 36" flighted lead auger to allow the user to pre-bore a hole to a depth of 9! The flighted lead auger comes with a hard surfaced tip for regular soil conditions and a 2" carbide tip for heavily compacted soil. The heavy-duty GVP kits also come with a larger 2 1/2" wild bore concrete coring bit (SDS-Max) instead of the 1 1/2" concrete bit included in standard gas vapor probe kits. The wild bore bit bit allows you to sample beneath concrete by providing clearance for the 2" diameter flighted augers. These kits also include an SDS-Max drill adapter. Pre-drill your boreholes to your target depth with the flighted augers or pre-punch your hole with the solid extendable tile probe extensions and tip. Then re-enter the same borehole with the hollow GVP extensions and sampling point. This will increase the lifespan of your stainless steel points and hollow GVP rods. Pre-drilling with flighted augers also allows access to sampling points in horizontal and vertical angles.

Heavy-Duty GVP Kits with Dedicated Tips

Part #	ltem	Weight
209.24	HD GVP Kit without drill	141.0 lb.
209.93	HD GVP Kit with Bosch 11245EVS Rotary Hammer Drill	177.0 lb.

Heavy-Duty GVP Kits with Dedicated Tips and Retract-A-Tip

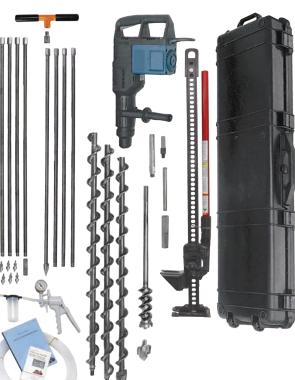
Part #	ltem	Weight
209.26	HD GVP Kit without drill	141.0 lb.
209.95	HD GVP Kit with Bosch 11245EVS Rotary Hammer Drill	178.0 lb.

Heavy-Duty GVP Kits Replacement Parts

Part #	Diameter	Length	ltem	Weight
214.26	2 1/ 2"		Wild Bore SDS-Max	6.6 lb.
405.26	2"		Carbide Tip	0.7 lb.
405.23	2"		Flighted Lead Auger w/ Hard Surfaced Tip	6.0 lb.
405.24	2"	36"	Flighted Extension	5.8 lb.
214.20			5/8'' NC Male to SDS-Max Adapter	0.8 lb.



Part #	Item	Weight
213.88	Bosch 11245EVS Rotary Hammer Drill	37.0 lb.
213.92	DeWalt D25600K Rotary Drill	34.0 lb.







Installing the AMS Sub-Slab GVP



1. Create a 1/8" recess hole with the core bit so that the tamper-resistant cap will fit flush with the floor surface when installed.



2. Drill through the concrete floor.





and grout above the rubber

3. Check for obstructions (if necessary)



plug.

tubing and sampler to the GVP, and begin collecting samples.



Sub-slab gas vapor probe kits are used to sample for volatile organic compounds (VOCs) beneath floor slabs during vapor intrusion investigations. These kits provide a semi-permanent probe that allows for repeated sampling over time in order to assess the potential of contaminated vapor intrusion beneath the floor slab of a building. The basic sub-slab kit includes a stainless steel 3"-long implant, rubber shaft plug, connectors, top plug, hose barb adapter, and a 1/4" x 12" x 0.3 5" stainless steel tube. The tamper-resistant kit includes all of the components of the basic kit as well as a screw-in top cap that will help prevent vandalism or other unwanted use of the sampling point.

The sub-slab GVP installation kit (below) contains everything needed to install up to five permanent sampling points. It includes five stainless steel 3" implants, five rubber shaft plugs, connectors, five top plugs, five hose barb adapter, five 1/4" x 12" x 0.35" stainless steel tubes, five tamper-resistant top caps, mini stainless steel ball-valve adapter, 1" x 16" x 21" SDS-Max bit, 2" x 3" x 16" SDS-Max core bit, screw driver, and a tee-handle allen wrench. To assemble the sub-slab gvp (left), attach the implant to an appropriate length of tubing. Push the tubing through the rubber plug. Place the connector on top of the tubing to allow for the connection of the plug, barbed adapter, valved adapter, or tamper-resistant cap. You You



#52956

AMS Sub-Slab Gas Vapor Probe Kits

Part #	ltem	Weight
52954	Sub-Slab GVP Basic Kit	0.8 lb.
52955	Sub-Slab GVP Tamper-Resistant Kit	1.0 lb.
52956	Sub-Slab Gas Vapor Probe Installation Kit	14.7 lb.

AMS Sub-Slab GVP Kit Replacement Parts and Accessories

Part #	Item	Weight
52952	Sub-Slab Vapor Shaft Tube	0.1 lb.
52953	Sub-Slab Rubber Plug	0.1 lb.
13460	Connector SS-400-7-4	0.1 lb.
13462	Plug HH-1/4 NPT	0.1 lb.
13463	Hose Barb Adapter SS-4-AC-1-4	0.1 lb.
21008	3" Implant w/ 1/4" SS Compression	0.1 lb.
56958	Sub-Slab GVP Tamper-Resistant Top Cap	0.1 lb.
208.63	Spanner Screwdriver	0.2 lb.
424.62	AMS Small Carrying Case	5.7 lb.
22011	Mini SST Ball-Valve Adapter	0.3 lb.
214.43	1" x 16" (usable length) x 21" (total length) SDS-Max Bit	2.3 lb.
260.51	2" x 3" (usable length) x 16" (total length) SDS-Max Core Bit	3.7 lb.
260.52	Tee Handle Allen Wrench	0.1 lb.
213.89	Bosch 11264EVS 1 x 5/8" SDS-Max Rotary Hammer Drill	14.3 lb.

Phone: 800-635-7330

AMS Sediment & Water Sampling Chapter Review

Multi-Stage Sludge & Sediment Sampler	Page 56
Multi-Stage Sludge & Sediment Sampling Kit	Page 57
Multi-Stage Serrated Core Catcher Tip	Page 58
Multi-Stage Valved Serrated Tip	Page 58
Pro Series Multi-Stage Sediment / Sludge Sampler Kit	Page 58
Sand & Sediment Probe	Page 59
Soggy Bottom Sampling System	Page 60
Ekman Dredge	Page 61
Ekman Dredge 5 lb. Sand Silt Dredge	Page 61 Page 61
5 lb Sand Silt Dredge	
5 lb. Sand Silt Dredge	Page 61
5 lb. Sand Silt Dredge 15 lb. & 25 lb. Bottom Dredges	Page 61 Page 61
5 lb. Sand Silt Dredge 15 lb. & 25 lb. Bottom Dredges Bailers	Page 61 Page 61 Page 62
5 lb. Sand Silt Dredge 15 lb. & 25 lb. Bottom Dredges Bailers Stainless Steel Bailers	Page 61 Page 61 Page 62 Page 62
5 lb. Sand Silt Dredge 15 lb. & 25 lb. Bottom Dredges Bailers Stainless Steel Bailers ClearView [™] Disposable Bailers	Page 61 Page 61 Page 62 Page 62 Page 63



AMS sediment samplers collect relatively undisturbed samples from non-cohesive materials including underwater sediment in shallow lakes, streams, and various types of impoundments.

The samples can be used for sediment profile descriptions, environmental sampling, and geotechnical analysis. These samplers are primarily used for shallow sediment sample retrieval, but deeper samples may be collected from pre-augered holes. Many of our sludge and sediment samplers may be used with or without liners. They are also very portable.

UISIO

AMS surface and groundwater sampling products allow for the collection of liquid samples for the identification of water quality problems and can be used at discrete depths in a variety of mediums including, drums, tanks, lakes, and other surface and groundwater bodies.

AMS offers a range of solutions that allow the user to recover representative samples of saturated materials. The samplers can be adequately filled – even in soft submerged materials – and sample

loss during recovery can be minimized. AMS surface and groundwater sampling products can accommodate various site requirements – including volume of water needed for accurate sample collection, field parameters being researched, and many other potential site variations.



Sludge & Sediment Samplers

Similar in design to core sampler (page 18), sludge & sediment samplers come with core and auger tips that are fitted with one-way valves for the retention of high-quality soil core samples in non-cohesive, saturated materials. These samplers are made in two diameters (2 1/4" and 3 1/4") and are available in lengths of 8", 10", and 12". They include a solid cap, valved core tip, valved auger tip, sludge cylinder body, universal slip wrench, plastic liner, and end caps. The solid cap, cylinder body, and tips are made of stainless steel.



Sludge & Sediment Samplers Replacement Parts

5					
Part #	Diameter	Length	Item	Material	Weight
428.10	2 1/4"		5/8" Threaded, Sludge Solid Cap	SST	1.4 lb
428.15	3 1/4"		5/8" Threaded, Sludge Solid Cap	SST	2.3 lb
328.10	2 1/4"		Quick Connect, Sludge Solid Cap	SST	1.7 lb
328.15	3 1/4"		Quick Connect, Sludge Solid Cap	SST	2.6 lb
428.07	2 1/4"		Valved Core Tip	SST	0.7 lb
428.17	3 1/4"		Valved Core Tip	SST	1.0 lb
428.08	2 1/4"		Valved Auger Tip	SST	0.9 lb
428.16	3 1/4"		Valved Auger Tip	SST	1.4 lb
428.09	2 1/4"	8"	Cylinder Body	SST	1.7 lb
428.24	2 1/4"	10"	Cylinder Body	SST	2.1 lb
428.26	3 1/4"	10"	Cylinder Body	SST	3.1 lb
428.28	3 1/4"	12"	Cylinder Body	SST	3.8 lb
422.03	2"	8"	Plastic Liner		0.2 lb
422.04	2"	10"	Plastic Liner		0.2 lb
422.01	3"	10"	Plastic Liner		0.3 lb
422.02	3"	12"	Plastic Liner		0.4 lb
418.10	2"		Plastic End Cap		0.1 lb
418.09	3"		Plastic End Cap		0.1 lb

5/8" Threaded, Sludge & Sediment Samplers

Part #	Diameter	Length	Material	Weight
428.11	2 1/4"	8"	SST	6.0 lb.
428.12	2 1/4"	10"	SST	6.3 lb.
428.13	3 1/4"	10"	SST	9.2 lb.
428.01	3 1/4"	12"	SST	9.9 lb.

Quick Connect Sludge & Sediment Samplers

Part #	Diameter	Length	Material	Weight
328.12	2 1/4"	8"	SST	6.8 lb.
328.13	3 1/4"	10"	SST	9.6 lb.
328.01	3 1/4"	12"	SST	10.3 lb.

Multi-Stage Sludge & Sediment Sampler

This sampler uses a disposable plastic core catcher and a rubber check flap on a special top cap to improve recovery of saturated materials.

During deployment of the sampler, the check flap on the top cap opens to allow excess air and water to escape through the four holes that are machined through the top cap. Air and water are able to easily pass through the sampler.

When the sampler reaches the sediment, the saturated materials are able to push through the core catcher and into the liner inside of the sampler body as the sampler is driven downward. The venting action of the check flap and cap prevents pressure buildup and allows the sample to enter the liner.

During retrieval of the filled sampler, the core catcher will be pressed closed by the weight of the sediment. This helps prevent the material from escaping through the bottom of the sampler. At the same time, the check flap will cover the holes through the top cap – which creates suction inside the sampler. This suction also helps to retain the collected sample in the sampler body.

The multi-stage sampler includes a check flap, top cap, core tip, 12" multi-stage base section, 2" x 12" plastic liner, two 2" end caps, 2" core catcher, and a universal slip wrench. The cap, base section, and core tip are all made of stainless steel.

Optional extension sections may be added onto the base section. Additional liners or longer liners may be used in the extended sampler. See below for details. Optional valved core and auger tips are also available to help improve the quality of samples collected in very non-cohesive, saturated materials. A complete multi-stage sampling kit is also available. See page 57 for details.

5/8" Threaded, Multi-Stage Sludge & Sediment Sampler

Part #	Diameter	Length	Item	Material	Weight
403.31	2 3/8"	12"	Mutli-Stage Sludge & Sediment Sampler	SST	9.7 lb.
*Notes: All com	nonents are inclu	ided in the mult	-stage sludge & sampling kit. See page 57 for rep	lacement parts	



(Information Available on AMS Website

AMS Sediment & Water Sampling | 57

Multi-Stage Extension

The multi-stage core sampler extensions have a female top thread and a male bottom thread which allow them to connect to the multi-stage sampler body as well as to each other. These extension sections allow the sampler body to become up to 48"-long and to collect longer

samples into one or multiple

liners. They are made of 300 series

Section

Multi-Stage Valved Core Tip

The multi-stage valved core tip is made of 300 series stainless steel. The one-way valve helps retain samples.

Multi-Stage Valved Auger Tip

The multi-stage valved core tip is made of 300 series

stainless steel. The one-way valve helps retain samples.

Part #	Diameter	Material	Weight
403.28	2 3/8"	SST	0.8 lb.

P 4





art #	Diameter	Material	Weight
403.29	2 3/8"	SST	0.8 lb.

Multi-Stage Sludge & Sediment Sampling Kit

stainless steel.

This sampling kit provides all of the components needed o collect sludge and sediment samples up to 4' in length. The 12" base section and three extension sections allow you to assemble a sampler that is 12", 24", 36", or 48" in length. It also comes with three 4' extensions that allow you to deploy the sampler through 12' of water before reaching the sediment.

The kit includes all of the components of the multi-stage sludge & sediment sampler (page 58), 12" multi-stage base section, three 12" multi-stage extension sections, 2" multi-stage core tip, 2" multi-stage valved core tip, three 4' extensions, 2" x 12" OD plastic liner, two 2" end caps, 2" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case. The top cap, core tip, valved core tip, multi-stage sampler, multi-stage extension sections, and extensions are made of stainless steel.



5/8" Threa	8" Threaded, Multi-Stage Sludge & Sediment Sampling Kit						
Part #	Diameter	ltem	Weight				
209.41	2 3/8"	Sludge & Sediment Sampling Kit	65.1 lb.				

Multi-Stage Sludge & Sediment Sampling Kit Replacement Parts & Accessories

Part #	Diameter	Diameter	ltem	Material	Weight
403.24	2"	12"	Multi-Stage Sampler Base	SST	4.4 lb.
403.23		12"	Multi-Stage Extension Section	SST	4.0 lb.
403.19			Core Tip	SST	0.8 lb.
403.28			Valved Core Tip	SST	0.9 lb.
403.29			Valved Auger Tip	SST	0.9 lb.
403.21			Top Cap & Check Flap	SST	1.2 lb.
409.09		4'	5/8" Thread Extension	SST	2.1 lb.
406.04		18"	5/8" Thread Cross Handle		1.3 lb.
400.99			5/8" Reg. Slide Hammer		10.2 lb.
421.10		12"	Crescent Wrench		1.4 lb.
421.29			Universal Slip Wrench		1.4 lb.
430.07	2"	12"	Nylon Brush		0.1 lb.
430.01			Deluxe Carrying Case 1750		26.0 lb.
404.91	2"		Plastic Core Catcher		0.1 lb.
418.10	2"		Plastic End Cap		0.1 lb.
405.10	2"	12"	Plastic Liner		0.2 lb.
425.20	2"	24"	Plastic Liner		0.3 lb.
406.72	2"	36"	Plastic Liner		0.4 lb.
406.73	2"	48"	Plastic Liner		0.5 lb.

*Plastic, brass, stainless steel, and aluminium liners are available in various lengths. See page 78 for details. No returns are accepted for plastic liners.

This stainless steel sampler features a vented top cap with check flap, a one-way valved core tip, a multi-stage sampler base body, and three 12" extension sections.



Part# 403.14

 Multi-Stage Serrated Core Catcher Tip

 Part #
 Item

 403.14
 Multi-Stage Serrated Core Catcher Tip

 Multi-Stage Valved Serrated Tip

 Part #
 Item

 403.15
 Multi-Stage Valved Serrated Tip

Serrated core tips provide better 'cutting action' & increase sample recovery in organic sediments where roots & other fibrous debris may be present

Professional Series Multi-Stage Sediment / Sludge Sampler Kit



NEW! Professional Series Multi-Stage Sediment/Sludge Sampler Kit! This sampling kit provides all of the components needed to collect sludge and sediment samples up to 4' in length. The 12" base section and three extra body sections allow you to assemble a sampler that is 12", 24", 36", or 48". in length. This kit provides all of the same components found in the original Multi-Stage kit found on page 57, however; this kit was designed for soil the sampling professional who wants the strongest, most durable connection on their extensions, cross handle, slide hammer, and sampler cap. The professional series 3/4" threaded extensions are constructed of larger 1" diameter chrome molybdenum tubing and are powder-coated safety orange for added rust resistance. The redesigned 10 lb. rubber-coated slide hammer is equipped with a more robust 3/4"-diameter inner slide bar that makes it more reliable and prevents bending of the bar. The new multi-stage flap check cap includes a thicker (.800") collar & was designed to match up with the larger 3/4" threaded female connection of the new professional slide hammer to provide increased durability. Kit components include 12" multi-stage base section, three 12" multi-stage extension sections, 2". multi-stage core tip, 2" multi-stage valved core tip, three 4' extensions, 2" x 12" OD plastic liner, two 2". end caps, 2" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case. The top cap, core tip, valved core tip, multi-stage sampler, multi-stage extension sections, and extensions are made of stainless steel.

AMS Professional Series Multi-Stage Sediment / Sludge Sampler Kit

Part# 403.15

	5
Part #	Item
209.42	Professional Series Multi-Stage Sediment / Sludge Sampler Kit

Accessories

Part #	ltem
403.16	Serrated MS SCS Core Tip
403.15	Serrated MS Sludge Core Tip W/Valve
425.20	2" X 24" Plastic Liner
406.72	2" X 36" Plastic Liner
406.73	2" X 48" Plastic Liner

AMS Professional Series Multi-Stage Sediment / Sludge Sampler Kit Replacement Parts

Part #	Item
403.24	2" X 12" MS Sludge SCS Base
403.23	2" x 12" MS Base Body Section
403.19	MS Sludge Core Tip
403.28	MS Sludge Core Tip w/Valve
50461	MS Flap Check Valve Cap 3/4" Threads
402.32	Pro Series 3/4" X 4' Powder Coated Extension
402.31	Pro Series 18" Rubber Coated 3/4" Cross Handle
57780	Pro Series Hammer (10 lb)
421.10	12" Crescent Wrench
421.29	Universal Slip Wrench
430.07	2" x 12" Nylon Brush
430.01	AMS Deluxe Carrying Case 1750 Black
404.91	MS 2" Plastic Core Catcher
405.10	2" X 12" Plastic Liner
418.10	2" Plastic End Cap

AMS Sediment & Water Sampling | 59

Sand & Sediment Probe 🚳 🖬

The sand & sediment probe is ideal for sampling dry sand, loose sediment, and sludges that has settled at the bottom of drums and tanks. It is capable of recovering high-quality core samples in a variety of loose or saturated materials. This small diameter sampler comes equipped with a heat-treated replaceable core tip that has been bored out to accept a 1" core catcher and 1" x 24" plastic liner. This feature minimizes the gap between the tip and body of the sampler - resulting in a more representative core sample. The core catcher helps to ensure full sample recovery in the proper soil conditions. An oversized vent hole at the top of the sampler allows ambient air and liquids to escape while the sampler is pushed to the desired sampling depth. The sand & sediment probe includes a 1" x 24" probe body, 10" rubber-gripped cross handle, replaceable core tip, 1" core catcher, 1" x 24" plastic liner, two 1" plastic end caps, and a spanner wrench. The probe body is made of nickel-plated chromoly; the tip is made of heat-treated, nickel-plated chromoly. Additional extensions can be used to reach deeper sampling depths. If sampling in compacted deposits, AMS compact and regular slide hammers can be used to drive the sampler. See pages 74-75 for information on extensions and slide hammers.



5/8" Threaded, Sand & Sediment Probe

	Part #	Diameter	Length	Item	Weight
	424.37	1 1/4"	24"	Sand & Sediment Probe	4.4 lb.
JEW	424.39			1 1/4" X 36" Replaceable Tip Sand Probe	6.0 lb.

Sand & Sediment Probe Replacement Parts & Accessories

Part #	Diameter	Length	Item	Weight		
425.04	1"	24"	Plastic Liner	0.2 lb.		
425.18	1"		Plastic End Cap	0.1 lb.		
425.018	1"		Plastic Core Catcher	0.1 lb.		
401.26		10"	Cross Handle	0.9 lb.		
400.96	5/8" Threaded	d Compact Slide Hamme	r	7.5 lb.		
400.99	5/8" Threaded	5/8" Threaded Regular Slide Hammer 10.3 II				
425.05	1″ X 37-3/4″ P	lastic Liner		0.2 lb.		
56799	Replaceable Tip 0.5 lb.					



Phone: 800-635-7330

#424.37

208-226-2017

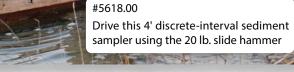


Soggy Bottom Sampling System 🛞 🔠

Use this sampler for discrete-interval sediment sampling below water and below the surface of the sediment in rivers, lakes, wetlands, and estuaries. It includes the sampler body, a 4' x 1 1/2" plastic liner, two 2' x 1 1/2" plastic liners, six 1 1/2" plastic end caps, one metal core catcher, one plastic basket retainer, three 3' extensions (with inner and outer rods), a 20 lb. slide hammer, cleaning brushes, and a deluxe padded carrying case. To obtain a sample, the assembled sampler is lowered to the surface or driven down to the depth where sampling is to begin. Upon reaching the sampling depth, the inner rods attached to the internal drive tip are retracted. When removing the internal rods, the internal drive tip is released and retained in a chamber at the top of the sampler. Next, the slide hammer with the 1 1/8" vented hammer adapter is attached, and the sampler is driven to collect the sample. Once the sample has been collected, the rods and sampler are pulled out of the borehole. If sampling in hard or tight sediments, the user may reverse hammer with the slide hammer or use the optional removal jack and chain pull cap. After removal, the sampler disassembles to allow access to the liners which can then be capped for transport to the lab.

AMS Soggy Bottom Sampling (SBS) System

Part #	Item	Weight		
5618.00	2" OD Soggy Bottom Sampling Kit	100 lb.		
SBS Kit Replacement Parts & Accessories				
Part #	Item	Weight	5618.00	
5618.105	SBS External Drive Tip	3.0 lb.	1	
5618.106	SBS Internal Drive Tip	2.5 lb.	1	
5618.168	SBS Lead Internal Rod for 2'	0.1 lb.	1	
5618.169	SBS Upper Lead Internal Rod	0.1 lb.	1	
5618.166	SBS Sampler Tube for 2' Liner	5.0 lb.	1	
5618.167	SBS Sampler Tube Upper Extension	5.0 lb.	1	
5618.109	SBS Top Metal Core Catcher	0.1 lb.	1	
18013	1 1/2" Basket Retainer - White	0.1 lb.	1	
5006.425	1 1/2'' x 4' PVC Liner	0.7 lb.	1	
5006.423	1 1/2" x 2' PVC Liner	0.4 lb.	2	
418.08	1 1/2" Plastic End Cap	0.1 lb.	6	
5618.113	Internal Tip Chamber	2.3 lb.	1	
5618.114	1 1/8" x 2" SBS Top Cap	1.7 lb.	1	
5618.116	1 1/8" Vented Hammer Adapter	0.4 lb.	1	
5618.118	3/8" x 3' Internal Rod w/ Coupler	7.1 lb.	3	
5004.06	1 1/8" x 3' Direct Push Extension	20.0 lb.	3	
400.93	3/4" Heavy-Duty Slide Hammer	0.8 lb.	1	
5006.84	Steel T-Handle (3/8" Threaded)	28.0 lb.	1	
430.01	AMS Deluxe Carrying Case 1750	0.3 lb.	1	
5009.05	Brush for 1 1/8" External Extension	0.3 lb.	1	
5009.09	Brush for 2" Sample Tube	0.5 lb.	1	
5618.129	SBS Liner Removal Tool Assembly	0.5 lb.	1	
5618.115	SBS Thread Protector Cap	0.2 lb.	1	
ACCESSOR	IES			
5618.121	SBS Chain Pull Cap	2.0 lb.	-	
18253	Big Foot Removal Jack	35 lb.	-	
10183	1 1/2" Basket Retainer - Red	0.1 lb.	-	
1002.24	3/8" Couplers	0.1 lb.	-	
418.16	0.003" x 4" x 100' Perforated Roll Fluropolymer Film	1.3 lb.	-	





Ekman Dredge () E and the spring-loaded ekman dredge is triggered to close using a messenger that travels down the attached rope. The dredge is made with

300 series stainless steel. It includes the dredge, messenger, 100' nylon rope, and a carry case. An optional 5ft handle is available.



The dredge can be triggered to close using the messenger and rope, or by pushing on the top of the optional handle.

Ekman Dredge

Part #	ltem	Material	Weight
445.11	Ekman Dredge	SST	6.7 lb.

Ekman Dredge Replacement Parts & Accessories

Part #	Item	Weight
445.12	Ekman Messenger	0.7 lb.
445.13	Ekman Dredge Cable Kit	1.2 lb.
53864	Ekman 5' Handle	2.7 lb.
445.00	1/4" Nylon Rope (per foot)	0.2 lb.
53864	Ekman 5' Handle	2.7 lb.

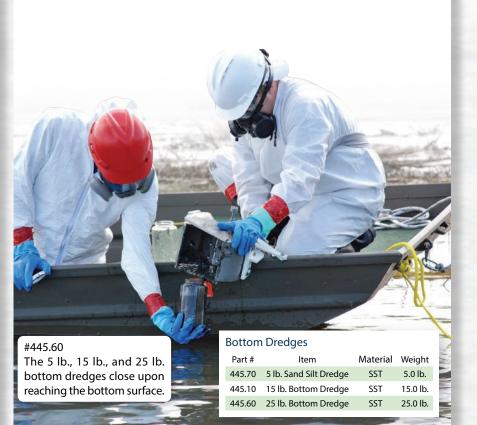
AMS Sediment & Water Sampling | 61

5 **Ib. Sand Silt Dredge** S The 5 Ib. sampler is great for grab sampling sand or silt. It features a hinged scissor jaw that is 6" x 7 1/2" when fully opened. It is designed with a trigger mechanism that holds the sampler open until it contacts the surface being sampled. Raising the dredge closes the scissor jaws to collect the sample. It is made of 300 series stainless steel.

15 lb. & 25 lb. Bottom Dredges 🛞 🔠

AMS bottom dredges are are primarily used to sample sand and silt but can be used to sample most types of non-cohesive material, except hard-packed clay. The 15 lb. dredge is suitable for most sediments. The 25 lb. dredge will sink faster, and push deeper into sediments. The top of the sampling chambers are screened to allow water to flow through during deployment and to reduce displacement and shock wave effects that may cause sample loss. A two-way mechanism prevents accidental closure while the dredge is dropping. The impact of the dredge on the bottom surface triggers the springloaded release mechanism to close the sampler. One of the jaws is fitted with an under lip to displace stones or gravel during closure. After closure, the dredge is pulled up to retrieve the sample. Careful release will distribute the sample approximately as it appeared on the bottom, making sediment profile description possible.

Both dredges feature a 6" x 6" jaw opening that provides a 36 in² sampling area. The sampler bodies and jaws are made of 300 series stainless steel. The arms are made of powder-coated carbon steel.



Bailers

Bailers offer an affordable and efficient grab sample, and they are available in a variety of lengths, diameters, and materials. They are widely used for shallow sampling and for sampling groundwater from monitoring wells in all phases of groundwater investigations. Stainless steel models may be decontaminated between uses; single-use, disposable models are also available.

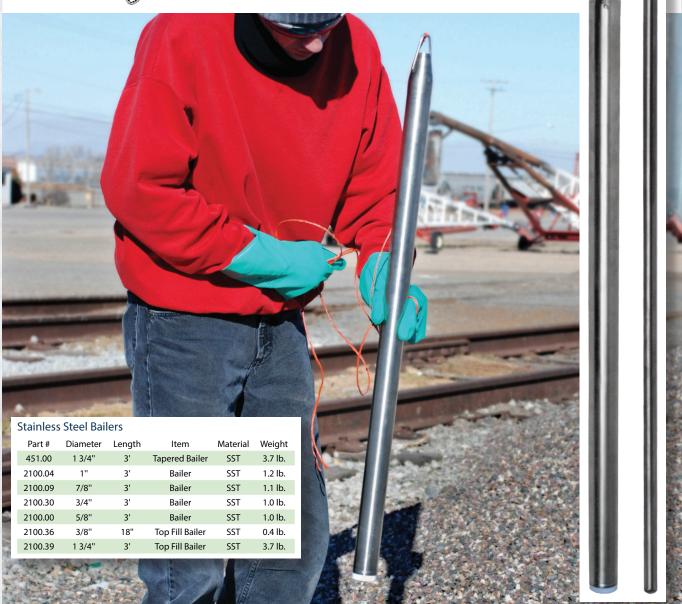
Sampling is accomplished by attaching the bailer to a line and lowering it to the desired sampling depth. As the bailer is lowered, the bottom check valve allows liquid to flow through it. When it is retrieved, the weight of the liquid closes the bottom check valve - preventing the liquid from escaping through the bottom of the bailer. The sample is a composite of the liquid present at the depths between the top and bottom of the bailer when the check valve was closed.

Bailers are easy to use, relatively inexpensive - compared to hand pumping methods - and do not require a power source. They may be used to sample most depths, although deep sampling may be time-consuming.

BioBailers (biodegradable bailers) are the same high-quality PVC disposable bailer as Clear-View™ bailers. They are augmented with an additive which makes them biodegrade when discarded. As tested by ASTM D5511, these products have been shown to biodegrade within a few years when placed in a landfill. They are available by special request. Contact AMS for details.

Stainless Steel Bailers

Stainless steel bailers are used to collect composite samples from wells and boreholes. They feature a tubular body with a wire loop bail and a fluoropolymer check ball on all models except the top fill model model, #2100.36. The stainless steel body allows for quick and easy decontamination, and the tapered top on the 1 3/4" model allows for smoother raising and lowering.



Information Available on AMS Website





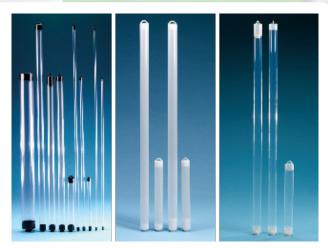
AMS Water Level Meters provide reliable and accurate measurements of groundwater levels. Water level readings are taken at the top of the casing with accuracy up to 1/100 of a foot (3 mm). They utilize a durable polypropylene storage reel with a rugged solid aluminum frame. Their highly accurate Polyethylene-coated steel tape is available in either standard/English or metric unit increments. The 5/8" (1.59 cm) probe is made with stainless-steel conductors for durability, and it can be replaced in the field. The 3/8" (.95 cm) probe is not replaceable. The probes also feature adjustable sensitivity to prevent false triggering, and audible and visible alarms activate when the probe makes contact with water. They have a built-in reel hanger and tape guide for longer tape life. The 9 volt battery is easy to replace. The water-resistant padded carrying case to protect the instrument is sold separately. Available in 5/8" or 3/8" diameter probes and in 100'; 200'; 300', 30 m, 60 m, or 100 m length.

AMS Product Water/Interface Meters provide measurements of both floating hydrocarbons (non-aqueous product layers). These meters measure free product and the interface (transition level) with water levels in groundwater monitoring wells. When the probe is lowered down a well and makes contact with the product layer (free product), a solid tone and green light alarm is activated on the reel. When the probe detects water, the tone begins to oscillate and the light changes to green. The 5/8" (1.59 cm) probe is made with stainless steel conductors for durability, and it can be replaced in the field. The 5/8" probe is equipped with stainless steel conductors and stored on a rugged polypropylene reel with an aluminum frame. It is shipped in a padded carrying case. Available in 100' or 30m length.

Product / Water Interface Meters

Part #	Item	Weight
3012.95	Interface Meter (5/8" Probe) - 100' Kynar Tape	177.0 lb
3012.96	Interface Meter (5/8" Probe) - 30 Meter Kynar Tape	229.0 lb

ClearView[™] Disposable Bailers



From left: Clear PVC bailers, translucent polyethylene bailers, clear fluoropolymer bailers

Disposable bailers allow you to eliminate the time and costs of decontamination and cleaning. Choose from clear PVC, translucent polyethylene, or clear fluoropolymer bailers for easy sample viewing. Translucent polyethylene bailers are available with or without weighted bottoms. Clear PVC models feature a heavier design than many weighted bailers. The positive sealing check valve will prevent the loss of sample during recovery.

All disposable bailers may be emptied through the easy-pour top or with a slow emptying device included with each bailer. 🧐

ClearView[™] Disposable Bailers

Part #	Diameter	Length	Item	Weight
2106.30	0.46"	3'	24 Clear PVC Bailers	6.0 lb.
2106.25	0.46"	4'	24 Clear PVC Bailers	7.0 lb.
2106.20	0.7"	1'	24 Clear PVC Bailers	5.0 lb.
2106.15	0.7"	3'	24 Clear PVC Bailers	6.0 lb.
2106.05	1 1/2"	1'	24 Clear PVC Bailers	10.0 lb.
2106.00	1 1/2"	3'	24 Clear PVC Bailers	14.0 lb.
2106.70	1 1/2"	1'	24 Clear Poly Bailers	6.0 lb.
2106.75	1 1/2"	3'	24 Clear Poly Bailers	8.0 lb.
2106.80	1 1/2"	1'	24 Weighted Poly Bailers	10.0 lb.
2106.85	1 1/2"	3'	24 Weighted Poly Bailers	12.0 lb.
2106.50	1 1/2"	1'	12 Fluoropolymer Bailers	10.0 lb.
2106.55	1 1/2"	3'	12 Fluoropolymer Bailers	6.0 lb.
Accessori	es			
Part #	Length	lte	em	Weight
2100.38	275'	#18 Twisted Nylon Twine PVC Slow Emptying Devices		0.1 lb.
2106.35	24 PVC Slo			1.0 lb.

Phone: 800-635-7330

208-226-2017

AMS Piezometer Groundwater Sampling Kit



The AMS "Piezometer Groundwater Sampling Kit" was designed in response to our clients' need for a manually-operated sampling kit, capable of providing a semi-permanent sampling point for water level measurements and shallow groundwater sampling investigations. This complete kit includes everything needed to take groundwater measurements and collect samples to a depth of 12', below ground surface. For tough soil conditions, a 1 3/4" regular soil auger, 6', of extensions, and a rubber-coated cross handle have been provided for "pre-augering" a borehole. The 1 1/4" outside diameter (OD) x 14" long Stainless Steel piezometer drive point can be connected to any of the 3', Stainless Steel Piezometer extensions using heavy-duty single-lead threaded couplers. These male/male couplers are crucial for providing the same OD the entire way down the drive string; allowing for an easier "push" and "pull"! Unlike other piezometer designs with welded fittings, the AMS Piezometer allows the end-user to remove and replace the internal (50 mesh SST Screen & Spring) for proper decontamination in between samplings, which is an extremely valuable feature exclusive to the AMS Piezometer. Also included in the kit is the patented AMS SST Dedicated Tip with SST screen. Used as both a drop weight and sampling port, this tip is connected to the 3/16" ID x ¼" OD fluoropolymer or poly tubing via a barbed adapter and lowered inside the piezometer. Typically, a peristaltic pump is connected at the other end of the tubing, although bladder pumps, AMS stainless steel bailers, and inertia samplers may also be used. The inside diameter of the piezometer is 7/8", which provides plenty of room for an AMS 5/8"Water Level Meter to be used prior to sampling. The sampler and extensions are driven into the subsurface using an AMS 20lb., Slide Hammer Attachment and threadless drive adapter. An AMS Big Foot removal jack and T-Jack Adapter are included for removal of the extensions and piezometer. Finally, cleaning brushes and wrenches for maintenance and assembly have been provided. All the components to this kit fit securely inside of two foam-lined, poly-reinforced AMS deluxe carrying cases with handles & wheels for added portability.

AMS Piezometer Groundwater Sampling Kit

Part #	Item
209.20	Piezometer Groundwater Sampling Kit
AMS Hex	Quick Pin Sampling Kit Replacement Parts
Part #	Item
18253	Big Foot Removal Jack
211.00	Gas Vapor & Umbrella
21151	Wire Cleaning Brush
212.05	GVP Screen #50 Mesh
213.98	3/16" ID x 1/4" OD x 50' Fluoropolymer Tubing
400.10	1 3/4" Regular Auger
400.93	3/4" Heavy Duty Slide Hammer
406.04	18" Rubber Coated Cross Handle
408.02	5/8" x 3' Extension
421.10	Crescent Wrench 12"
430.01	AMS Deluxe Carrying Case 1750
430.05	1" x 24" Nylon Brush
58062	1-1/4" x 14" Stainless Steel Piezometer
58063	1-1/4" x 3' Stainless Steel Extension
58064	Male-to-Male Piezometer Extension Coupler
58067	Threadless Drive Adapter
58068	Piezometer T-Jack Adapter
5004.45	Twist-to-Lock Connector, 3/16" ID
5004.56	1 1/4" Expendable Tip
5004.58	Stainless Steel #50 Mesh Screen for Expandable Drive Tip Holders
58069	Piezometer Point Holder
58070	Piezometer Slotted Pull Adapter
AMS Piez	ometer Groundwater Sampling Kit Accessories

Part #	Item
214.18	SDS Max Drill Adapter to 3/4" OD
58065	Threaded Drive Adapter
58066	3/4" Slide Hammer Adapter

Manual Cable-Controlled Discrete Liquid Sampler Kits

Manual cable-controlled discrete liquid samplers are used to collect discrete or composite liquid samples in drums, tanks, ponds, lagoons, and other surface water bodies. They are also recommended for use in monitoring wells with inner diameters of 2" or larger. They are made of stainless steel and have flouropolymer bodies. They are heavier than most bailers, and the weight allows for an easy, straight deployment into liquids.

Discrete liquid samplers are easy to use. They are lowered into the liquid to be sampled and opened at a given depth by cables or valves, depending on product. The sampler is retrieved and samples are transferred to other containers for shipment to a laboratory for analysis. The discrete liquid sampler kits include 25' cable control, cable-control T-handle, cable-control fitting kit, top cap with fluoropolymer valve, dump valve cap (single-valve kit only), metering valve (dual-valve kit only), fluoropolymer container, and two fluoropolymer container caps.

Discrete Liquid Sampler Features:

- Heavier than bailers for smoother, straighter deployment
- Can be used to sample to depths in excess of 25'
- Cable-control T-handle allows upper valve of all models to be opened and closed for discrete sampling
- Easy take-apart design for decontamination and cleaning
- Fluoropolymer container is clear for quick field examination
- Allows for sampling of drums, tanks, lagoons, open waters, and monitoring wells that are 2" ID and larger
- Collected high-quality samples



Discrete Liquid Sampler Kits

Part #	Item	Weight	Price
2200.10	Single-Valve Liquid Sampler with Manual Cable Control	5.6 lb.	\$ 713.90
2200.20	Dual-Valve Liquid Sampler with Manual Cable Control	6.4 lb.	\$ 883.30

Discrete Liquid Sampler Kits Replacement Parts

CONTAINER

Part #	Item	Weight	Price
2201.15	12" Fluoropolymer Liquid Sampler Container		\$ 135.00
2205.00	Liquid Sampler Top Cap with Fluoropolymer Valve		\$ 297.90
2205.51	Liquid Sampler Metering Valve (dual-valve kit)		\$ 193.70
2205.03	Liquid Sampler Dump Valve Cap (single-valve kit)		\$ 1.00
2201.30	Liquid Sampler Fluoropolymer Container Cap		\$ 20.20
CABLE			
2202.55	Liquid Sampler Cable-Control per Foot		\$ 2.80
2202.60	Liquid Sampler Cable-Control T-Handle		\$ 159.10
2202.50	Cable Control Fitting Kit		\$ 104.00

#2200.20

Manual cable-controlled discrete liquid samplers are heavier than most bailers. They are made using durable stainless steel.



AMS Geotechnical Sampling & Testing Chapter Review

Borehole Preparation Kit	Page 68
Cone Penetrometer	Page 69
Static Cone Penetrometer	Page 69
Dynamic Cone Penetrometer	Page 69
Field Vane Shear Test Kit	Page 70
Infiltration Rings	Page 70
Infiltration Rings Pocket Vane Shear Test Kit	Page 70 Page 71



Geotechnical Sampling and testing can also be conducted with AMS PowerProbe[™] and direct push tooling. [Page 93]



Dynamic cone penetrometer. Part #59000. Evaluate strength and density of soil, in situ.



Infiltration rings. Part#400.97. Monitor infiltration rates, and study liquid waste disposal, leaching, and drainage efficiencies.

AMS geotechnical sampling and testing products allow the user to conduct geotechnical investigations of soil – Aincluding surface and subsurface exploration around a site.

AMS offers a borehole preparation kit for clearing debris from augered boreholes to allow for more accurate geotechnical sampling and testing. The static and dynamic cone penetrometers are excellent for evaluating strength and density of soil, in situ. And, field vane shear testers allow you to take direct reading of un-drained shear strength in soft and stiff clays.

Borehole Preparation Kit

The borehole preparation kit allows you to manually auger a 2 1/2" diameter hole to your target depth using the supplied auger, extensions, and rubber-coated cross handle. After your desired depth has been achieved, remove the regular auger head from your extension(s), and thread on the planer auger. Lower the planer auger to the bottom of the borehole and twist the cross handle two full revolutions. The specialized cutting head of the planer auger will pick up any loose debris and will leave a level surface at the bottom of the borehole – allowing for more accurate geotechnical testing and sampling. The kit includes a 2 1/4" regular auger, 2 1/4" planer auger, 4' extension, 3' extension, 18" rubber-coated handle, and polycanvas carrying case. All of the components have a 5/8" threaded connection type.





Static Cone Penetrometer

The static cone penetrometer (SCP) is used to evaluate the consistency of soils, their level of compaction, and the bearing capacity of shallow foundations and pavement subgrades. It includes a cone, starter rod assembly, pressure gauge, and operating instructions. The standard cone is a 60 degree vertex angled cone with an area of 1.5 cm². An larger, optional cone with an area of 3 cm² is available for use in soft soils. The dual-rod construction isolates cone resistance from shaft friction. The pressure gauge ranges from 0 to 70 kg/cm² and reads the cone resistance directly which eliminates the need to prove ring conversions. The starter rod assembly can withstand an axial force of 250 lb/ft (340 N*m) maximum. The penetrometer is made of stainless steel and anodized aluminum.

Static Cone Penetrometer

Part #	ltem	Weight
59010	Static Cone Penetrometer Complete	8.0 lb.

Static Cone Penetrometer Replacement Parts

Part #	Diameter	ltem	Weight
59018	24"	SCP Starter Rod Assembly	1.0 lb.
59017	24"	SCP Extension Rod Assembly	1.0 lb.
59016	24"	SCP Extension Inner Rod	0.5 lb.
59015	24"	SCP Starter Inner Rod	0.5 lb.
59014	24"	SCP Outer Rod	1.0 lb.
59012		Standard 60° SCP Cone Assembly	1.0 lb.
59011		Large 60° SCP Cone Assembly	1.0 lb.



#59010 Evaluate the consistency, compaction, and bearing of fine grained, soft soils.

Dynamic Cone Penetrometer



Dynamic Cone Penetrometer

Part # 59000

Item	Weight
Dynamic Cone Penetrometer	72.0 lb.

DCP Replacement Parts & Accessories

		· · · · · · · · · · · · · · · · · · ·			
	Part #	Diameter	Length	Item	Weight
	59006	1 3/8"	2 1/2'	External DCP Extension Rod	7.0 lb.
	59005	1 3/8"	1'	DCP Drill Rod Extension	3.3 lb.
	59004	1 3/8"		DCP Drive Hammer Assembly	28.8 lb.
	59003	1 1/2"		DCP Replacement Point w/ Roll Pin (45 degree vertex angle)	1.0 lb.
	59001		1'	DCP Adapter Drive with Heat-Treated Drive	3.3 lb.
	59002	1/4''	1 1/4"	DCP Spiral Pin for Point	0.1 lb.
	ACCESS	ORIES			
	59027	3"	10"	10 Sampler Tubes w/ 10 Caps	18 lb.
	59028	3"	10''	Sample Tube	1.8 lb.
	59029	3"	10"	SST Sample Tubes	1.8 lb.
	59030	3"		Drive Head w/ Screws	4.8 lb.

The dynamic cone penetrometer (DCP) is the most widely accepted portable method for evaluating strength and density of soil, in situ. It is effective in pre-augered boreholes to depths of 20' (6.1m). A drive mass that falls 20" (50.8cm) strikes an anvil to cause penetration of the cone after it has been seated in the bottom of a pre-augered hole. The blows required to drive the embedded cone a depth of 1 3/4" are correlated to N values derived from the Standard Penetration Test (SPT). The cone can be replaced with a drive tube assembly to collect 3" x 10" (7.6 cm x 25.4 cm) samples from pre-augured holes. The dynamic cone penetrometer includes a DCP drive hammer assembly with 15 lb. (6.8kg) drive mass, 45 degree vertex angle cone with a 1.5" (3.8cm) diameter, DCP extensions, instructions, and an ASTM STP 399 Special Publication. It has a heat-treated cone and zinc-plated steel components.

Phone: 800-635-7330

208-226-2017

Fax: 208-226-7280

Field Vane Shear Tester Kit



This kit allows you to take direct readings of un-drained shear strength to depths of 10' (3.3 m) in soft and stiff clays. The peak vane value is determined by a calibrated scale ring built into the head assembly. The handle is used to push the vane to the desired test depth and to apply the shearing torque. To correct for the skin friction of the extension rods, a dummy probe replaces the vane and a skin friction test is performed adjacent to the vane test location. The complete unit includes torque head assembly, six extensions rods, three vanes, skin friction probe, double-ended wrench, and a carrying case. The unit is made of stainless steel and anodized aluminum. The vanes provided in the kit are 0.63" x 1.25" (16 x 32 mm), 0.79" x 1.58" (20 x 40 mm), and 1" x 2" (25.4 x 50.8 mm).

🛞 🕌

Field Vane Shear Tester

Part #	Item	Weight
59020	Field Vane Shear Tester Complete	7.0 lb.

Infiltration Rings

AMS infiltration rings are a simple and relatively inexpensive method for monitoring infiltration rates. They can also be used to study liquid waste disposal, leaching, and drainage efficiencies. The rings are inserted into the turf by pushing and twisting on a cross handle that is welded through the center. Use a stopwatch to measure the duration of dissipation to determine the infiltration rates and the saturation of soils. An optional dead blow hammer may also be used to pound the rings into the turf. AMS infiltration rings are constructed of rolled, 16-gauge mild steel instead of galvanized steel. They are also plated with corrosion resistant gold-zinc plating. This substantially increases the durability of each unit. They include a manual and correlation chart.



Infiltration Rings

5				
Part #	Inner Ring	Outter Ring	Item	Weight
400.97	6" ID	12" OD	Infiltration Ring	4.0 lb.
400.98	12" ID	24" OD	Infiltration Ring	7.0 lb.
ACCESSORIES				
11677 37 oz. Dead Blow Hammer			2.4 lb.	

AMS Geotechnical Sampling & Testing | 71

Pocket Vane Shear Test Kit



Pocket Vane Shear Test Kit				
Part #	Item	Weight		
59033	Pocket Vane Shear Test Kit	1 lb.		

Easy to use with easy-to-read results:

- Regular vane (0 to 1 kg/cm²) : For saturated cohesive soils with undrained strength, independent of normal pressure
- Large vane (0.2 kg/cm²): use with remolded samples.
- Small vane (2.5 kg/cm²): for stiffer clays.

Comes with:

- Three Vanes
- Allen Wrench
- **Carrying Belt Pouch**

Advantages:

- All Metal Construction
- Quick and efficient method for determining shear strength values of cohesive soils.
- Metal Vanes are designed to last Long
- TORVANE permits the rapid determination of a large number of strength values with different orientation of failure planes
- Calibrated dial converts torque directly into shear stress in kg/cm². The maximum reading obtained on the dial is the shear strength.
- The TORVANE allows shear strength to be measured in the sides of test pits, trenches or excavations. It may also be used on the ends of thin wall or split spoon samples and soil chunks removed from test pits
- Shipping Weight: 1 lb (0.5kg); 0.2 cu. ft.

Pocket Penetrometer

The AMS pocket penetrometer provides accurate measurements of the compressive soil strength. This 6-1/4" unit is spring-operated, and it measures strength in tons/sq. ft. or kg / sq. cm by pushing a 1/4" diameter loading piston into soil to a depth of 0.25". The end area is a 0.25" compressive load which is indicated by reading a scale on the piston barrel. A friction ring indicates maximum reading. Made of anodized aluminum. An Allen wrench and plastic carrying case with belt loop are included. A special 1" diameteradapter foot is available as an option for use in very sensitive soils.

A pocket penetrometer is required by OSHA on all excavation jobs, and it can help protect you from costly lawsuits and construction delays.



Geo Tester Penetrometer



Part # 59035

Geotester dial penetrometer set is used for on-site measurement of soil compaction by testing the foundation plane or boring samples. It gives readings of estimated unconfined compressive strength in TSF or kg/cm2 when used with the standard 1/4" dia plunger. The geotester is furnished with stainless steel plungers, carrying case, data tables, register plates and instructions. Comes with :

- Stainless Steel Plungers
- **Plastic Carrying Case**
- Data tables
- **Register Plates**

Geotester Dial Penetrometer

Part #	Item	Weight
59035	Geotester Dial Penetrometer	7 lb.

Phone: 800-635-7330

Fax: 208-226-7280

Part # 59031

AMS Accessories for Hand Sampling Products Chapter Review

Cross Handle	Page 74
Slide Hammers	Page 74
Rock Breaker Kit	Daga 74
Hammer-Head Cross Handle	Dago 75
Extensions	Page 75
Cleaning Brushes	Page 76
Connection Adapters	Page 76
Quick Connect Accessories	Page 76
Tooling Cases	Page 76
Wrenches	Da
Stainless Steel Spade Shovel	Page 77
Shovels and Scoops	Daga 77
Scoops	Page 77
Montana Sharpshooter	Page 77
Munsell Soil Color Chart Binder 	Page 77
McCollough Geo Guide Card and Geotechnical Gauge	Page 77
Plastic, Stainless Steel, Brass & Aluminum Liners	Page 78
Liner End Caps	Page 79
Fluoropolymer Film	Page 79
Echo Gas Drills	Page 79
End Cap Inserts	Page 79
Core Catchers	Page 79
Concrete Bits, Core Bits, & Rocky Soil Screw Augers	Page 80
Drill Adapters	Page 80
Rotary Hammer Drills	Page 80
Removal Jack	Page 81
Syringe & Caps	Page 81
Tedlar Bags	Page 81
Tubing Options	Page 81
Vacuum Pumps	Page 81
Vacuum Station	Page 81





AMS 18" and 22" rubber-coated handles are made of chromoly and are coated with textured rubber. The 18" rubber-coated handles are available with signature series, 3/4" threaded, 5/8" threaded, and quick connect connections. The 22" models are only available with a 3/4" threaded connection. 10" rubber-gripped handles have a 5/8" threaded connection. Ratcheting handles are available with signature series, 3/4" threaded, 5/8" threaded, and quick connect fittings. They are made of durable carbon steel, and have an open-gear mechanism that allows for easy cleaning of the gear and cog. Quick connect ratcheting handles allow for reverse ratcheting. Ratcheting handles without fittings and fitting replacements are also available. Ratcheting handles without fittings do not have rubber grips.



AMS Cross Handles

Signature Series, Cross Handles

Part #	Length	Item	Weight
351.54	18"	Rubber-Coated Cross Handle	1.1 lb.
351.56	18"	Ratcheting Cross Handle	2.4 lb.

3/4" Threaded, Cross Handles

Part #	Length	ltem	Weight
402.31	18"	Rubber-Coated Cross Handle	1.3 lb.
406.87	18"	Ratcheting Cross Handle	2.5 lb.
406.05	22"	Rubber-Gripped Cross Handle	1.6 lb.

5/8" Threaded, Cross Handles

Part #	Length	Item	Weight
406.04	18"	Rubber-Coated Cross Handle	1.1 lb.
406.80	18"	Ratcheting Cross Handle	2.1 lb.
401.26	10"	Rubber-Grippped Cross Handle	0.9 lb.
401.27	12"	Hammer-Head Cross Handle	2.1 lb.
11677		37 oz. Dead Blow Hammer	2.4 lb.

Quick Connect, Cross Handles

Part #	Length	Item	Weight
306.06	18"	Rubber-Coated Cross Handle	1.3 lb.
306.07	18"	Ratcheting Cross Handle	2.4 lb.

Ratcheting Handle Replacement Parts

Part #	Item	Weight
406.85	Ratcheting Handle without Fitting	2.3 lb.
406.82	5/8" Threaded Fitting	0.3 lb.
406.83	Signature Series Fitting	0.3 lb.
406.86	Quick Connect Fitting	1.1 lb.
13378	Snap Ring (Requires 2)	0.1 lb.
11673	Rubber Grips for Ratcheting Handle	0.1 lb.

#400.96

Rock Breaker Kit

Rock breaker kits include two alloy steel, sharp-edged chisels. The flat edges of AMS rock breakers are 1 3/4" and 2 1/2". They are used to to break up obstructions in augered holes and to penetrate hard pan lenses. They ares also ideal for splitting or chipping rocks, stones and other obstructions in augered holes They are made for use with 3/4" and 5/8" threaded slide hammers. 🙉

3/4" Threaded Rock Breaker

Part #	ltem	Weight
424.001	Rock Breaker Kit	1.5 lb.
5/8" Thr	eaded Rock Breaker	
Part #	ltem	Weight
424.00	Rock Breaker Kit	1.5 lb.

AMS Slide Hammers

Use slide hammers to pound soil probes, core samplers, and sediment samplers into the ground. They offer a simple method for soil penetration by allowing the user to push or drop the hammer weight down the slide rod to apply force through the extension to the sampler. Slide hammers also assist in sample retrieval by allowing the user to back hammer to provide upward force.

Signature Series, Slide Hammers

Part #	Item	Weight
350.96	Compact Slide Hammer	7.7 lb.
350.99	Regular Slide Hammer	10.3 lb.
350.93	Heavy-Duty Slide Hammer	18.9 lb.

5/8" Threaded, Slide Hammers

Part #	Item	Weight
400.96	Compact Slide Hammer	7.7 lb.
400.99	Regular Slide Hammer	10.3 lb.

3/4" Threaded, Slide Hammers

Part #	Item	Weight
57780	Professional Slide Hammer	10.3 lb.
400.93	Heavy-Duty Slide Hammer	18.9 lb.
400.86	30 lb. Heavy-Duty Slide Hammer	30.0 lb.
×** · · · ·		

*Note: Heavy-duty slide hammers are not rubber-coated. 3/4in Professional Slide Hammers are powdercoated (orange).

#400.99 #57780

#400.93

#400.86

Hammer-Head Cross Handle

This lightweight, dual-purpose cross handle can be used to manually push or pound your soil sampler into the ground. It consists of a 2" machined, stress-proof steel body for added strength and durability. The cross member is made of solid cold roll. It has rubber grips and is connected to the body by a set screw. The hammer-head handle has no visible welds, and it is coated with a rust-resistant silver-zinc plating. It is only available with a 5/8" threaded connection. It is used with an all-purpose, impact-absorbing dead blow hammer. It is not intended for use with steel sledge hammers.





AMS Extensions

Signature series extensions feature zinc-coated chromoly for added rust resistance. 3/4" threaded connections are made of powder-coated chromoly or chromoly steel. 5/8" threaded and quick connect extensions are either chromoly or stainless steel.

Signature Series Extensions

Part #	Length	Material	Weight	
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.	
				-
			B	100

3/4" Threaded Extensions

0,				
Part #	Length	Material	Weight	
407.01	1'		1.0 lb.	
407.02	2'		1.5 lb.	
407.03	3'		2.0 lb.	
407.04	4'		2.5 lb.	
407.05	5'		3.0 lb.	
402.33	3'	Coated	2.0 lb.	
402.32	4'	Coated	2.5 lb.	
			E	ANNUN
				=;.
1				
		and the second second		Titt

5/8" Threaded Extensions

Part #	Length	Material	Weight
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.



Quick Connect Extensions

Part #	Length	Material	Weight
309.00	1'		1.9 lb.
309.01	2'		2.3 lb.
309.02	3'		2.7 lb.
309.03	4'		3.2 lb.
309.04	5'		3.6 lb.
309.06	1'	SST	1.9 lb.
309.07	2'	SST	2.4 lb.
309.08	3'	SST	2.8 lb.
309.09	4'	SST	3.2 lb.
309.10	5'	SST	3.7 lb.

76 | AMS Accessories for Hand Sampling Products



Connection Adapters

Adapters allow for conversion among AMS signature series, 5/8" threaded, and quick connect connection types.

Connection Adapters

Part #	Item	Weight
351.90	5/8" Threaded Male to Sig. Series Female	0.8 lb.
413.02	5/8" Threaded Male to Quick Connect Female	1.0 lb.
351.91	Signature Series Male to 5/8" Threaded Female	0.8 lb.
351.95	Signature Series Male to Quick Connect Female	0.8 lb.
413.01	Quick Connect Male to 5/8" Threaded Female	1.0 lb.
351.94	Quick Connect Male to Sig. Series Female	0.8 lb.

Cleaning Brushes 🛞

These stainless steel and nylon brushes will help maintain your sampling components and other equipment.



	• • • • =	•=		0.2
430.07	2"	12"	Nylon Brush	0.2 lb.
430.09	3"	12"	Nylon Brush	0.2 lb.
430.21	1 1/2"	12"	SST Brush	0.2 lb.
430.17	2"	12"	SST Brush	0.2 lb.
430.19	3"	12"	SST Brush	0.2 lb.





Tooling Cases 🕸 🚮

These tough, convenient cases are perfect for storing and transporting your valuable sampling equipment. Flexible poly-canvas cases are available in a variety of sizes and with various pocket options. Rugged, hard-sided case with foam padding are available in two sizes. The deluxe case is used with most kits.

Tooling Cases

Part #	Length	Item	Weight
430.01	4'	Deluxe Carrying Case (54" x 18" x 6")	28.9 lb.
424.62	2'	Mini Carrying Case (26" x 13" x 6")	1.0 lb.
430.02	3'	Poly-Canvas Case	2.0 lb.
430.04	4'	Poly-Canvas Case	2.0 lb.
430.00	3'	Poly-Canvas Core Sampler Case	2.0 lb.
430.31	3'	Signature Poly-Canvas Case	2.0 lb.
430.32	4'	Signature Poly-Canvas Case	2.0 lb.

Quick Connect Accessories

The repair kit is used to repair quick connect connections. The finger ring is used to press the connection pin to release the connection.



(Information Available on AMS Website

NEW and Improved!





Munsell[®] Soil Color Chart Binder

The Munsell^{*} color chart enables color classification of soils using 250 mounted color chips. Developed with the U.S. Soil Conservation Service, this guide is the industry standard. The chart now includes two new soil charts – 7.5R and 5R. The pages are more water resistant, and the recessed paint chips are less likely to break or fall out. It is also easier to compare the color of your sample to the chips because they are recessed.

Munsell[®] Soil Color Chart Binder

Part #	Item	Weight
504.00	Munsell [®] Soil Color Chart Binder	0.8 lb.

McCollough Geo Guide Card and Geotechnical Gauge

This card provides classification information on a flexible, waterproof plastic card with lanyard. It includes soil type samples, classification by type, grain size, and color. It features six common Munsell* soil colors, Unified Soil Classification System (USCS), soil compaction tests for clay and sand, and size classification chart with actual sand grains from coarse to silt.



McCollough Geo Guide Card and Geotechnical Gauge

Part #	Item	Weight
504.20	McCollough Geo Guide Card and Geotechnical Gauge	0.1 lb.

AMS Accessories for Hand Sampling Products | 77

Shovels and Scoops

AMS shovels and scoops are ideal for general purpose scooping and collection of disturbed samples. Generally used for digging in consolidated materials at shallow depths, scoops and shovels are used to sample surface soils, sediments, and sludge.

Montana Sharpshooter

The heavy-duty, sharpshooter opens a deep, narrow hole, even in hard, rocky soil. The blade is 18" in length, 5 1/4" in width at top, and tapers to 4 1/4" in width at bottom. The handle is 29" long, and is available with rubber coating to reduce recoil from striking rocks. These shovels are made using heavy-duty, heattreated carbon steel and are coated for rust resistance.



Stainless Steel Spade Shovel Durable stainless steel construction withstands caustic and corrosive materials and is easily decontaminated after use. The blade of the AMS spade shovel has a front-rolled step, a fine cutting edge, and measures 7 3/4" x 11". The overall length of the shovel is 54".

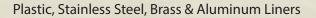


Scoops 🛞

Scoops may be used for sampling or compositing. The AMS range of 5 sizes has been the industry standard for this purpose for over a decade. Sized by the approximate weight in ounces, they are available with or without a rubber handle. They are made of passivated 300 series stainless steel.

Shovels & Scoops

Part #	Item	Material	Weight
427.82	#2 Scoop With Rubber Grip	SST	0.5 lb.
427.83	#3 Scoop With Rubber Grip	SST	0.5 lb.
427.84	#6 Scoop With Rubber Grip	SST	0.6 lb.
427.85	#8 Scoop With Rubber Grip	SST	0.6 lb.
427.86	#12 Scoop With Rubber Grip	SST	0.8 lb.
428.02	#2 Scoop Without Rubber Grip	SST	0.3 lb.
428.03	#3 Scoop Without Rubber Grip	SST	0.4 lb.
428.04	#6 Scoop Without Rubber Grip	SST	0.5 lb.
428.05	#8 Scoop Without Rubber Grip	SST	0.5 lb.
428.06	#12 Scoop Without Rubber Grip	SST	0.7 lb.
427.90	Spade Shovel	SST	5.9 lb.
410.00	Sharpshooter w/o Rubber Coating		9.4 lb.
410.01	Sharpshooter w/ Rubber Coating		10.7 lb.





Order liners by the length, diameter, and material type desired. The sizes shown are the retaining cylinder size.

Plastic Liners

Part #	Diameter	Length	Weight		
425.07	3/4"	12"	0.1 lb.		
425.09	3/4"	24"	0.1 lb.		
425.02	1"	12"	0.1 lb.		
425.04	1"	24"	0.2 lb.		
406.56	1 3/8"	6"	0.1 lb.		
406.57	1 3/8"	12"	0.2 lb.		
405.08	1 1/2"	6"	0.1 lb.		
406.53	1 1/2"	12"	0.1 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.		
405.09	3"	6"	0.2 lb.		
422.01	3"	10"	0.3 lb.		
422.02	3"	12"	0.4 lb.		
*No returns are accepted for Plastic Liners.					

Stainless Steel Liners				
Part #	Diameter	Length	Weight	
425.15	3/4"	12"	0.3 lb.	
425.16	3/4"	18"	0.3 lb.	
425.17	3/4"	24"	0.5 lb.	
425.11	1"	12"	0.4 lb.	
425.13	1"	24"	0.8 lb.	
403.87	1 3/8"	6''	0.3 lb.	
405.13	1 1/2"	6''	0.5 lb.	
405.81	1 1/2"	12"	1.0 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.	
405.21	3"	6"	1.0 lb.	
422.05	3"	10"	1.7 lb.	
422.06	3"	12"	2.0 lb.	

Brass Liners

Part #	Diameter	Length	Weight
405.11	1 1/2"	6"	0.3 lb.
405.99	1 1/2"	12"	0.6 lb.
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.
405.17	3"	6"	0.9 lb.

Aluminum Liners

Part #	Diameter	Length	Weight
405.04	1 1/2"	6"	0.2 lb.
405.57	1 1/2"	12"	0.3 lb.
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.
405.06	3"	6"	0.3 lb.
405.71	3"	10"	0.5 lb.
405.72	3"	12"	0.6 lb.
405.67	3"	3"	0.2 lb.

AMS Accessories for Hand Sampling Products | 79



#425.018

Core Catchers 🛞

Core catchers are used to minimize the loss sample during recovery in dry, loose soil as well as in very saturated materials, sludges, and sediments. The 2" core catchers are used with core, split-core, and sludge & sediment samplers. The 1" core catcher is used with the sand & sediment probe.

Core Catcher

Part #	Diameter	Item	Weight
404.91	2"	Core Catcher	0.1 lb.
404.90	2"	Eggshell Catcher	0.1 lb.
425.018	1"	Core Catcher	0.1 lb.

*Note: Liners must be cut 1/8" shorter.

Width

4"

4"

Fluoropolymer Film 🥸

Fluoropolymer film is used to seal or wrap samples for shipping or to cover material upon which samples will be dissected and examined. To seal samples in liners, select the perforated roll of 4" x 4" swatches.

Fluoropolymer Film

Thickness

.003"

.003"

Part #

418.16

418.17





Echo Gas Drills 🛞

These lightweight, 2-cycle gas-powered drills make drilling boreholes a cinch. They combine the convenience of a cordless drill with the features of a heavy-duty drill. The EDR-210 and EDR-260 models have a 1/2" chuck. 410 models use an EA-410 adapter.

	#213.81	#213.86	#213.83
	EDR-210 (rev.)	EDR-260 (rev.)	EA-410
Engine Displacement:	21.2 cc	25.4 cc	51.7 cc
Fuel Capacity:	14 oz.	19.6 oz.	28.7 oz.
Gear Reduction Ratio:	17.1:1	17.1:1	30.1:1
RPM:	0-450 Fwd/Rev	0-640 Fwd	0-230 Fwd
Max. Chuck Diameter:	1/2"	n/a	n/a
Max. Torque at Engine:	n/a	n/a	1.49'. lbs.
Max. Torque at Auger:	n/a	n/a	44.9'. lbs.
Dry Weight:	13.0 lb.	13.3 lb.	21.4 lb.
Price:	\$ 442.90	\$ 545.90	\$ 721.00

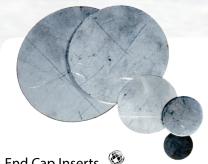


Liner End Caps 🛞

Polyethylene plastic end caps cover the ends of plastic, stainless steel, brass, and aluminum liners to help retain the integrity of your samples. Liner end caps are only available in blue.

Liner End Caps

Part #	Diameter	Weight
425.22	3/4"	0.1 lb.
425.18	1"	0.1 lb.
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.



End Cap Inserts

These stainless steel end cap inserts help minimize loss of volatiles. They are designed to work in conjunction with the plastic end caps. They are ideal for environmental soil sample collection.

End Cap Inserts

Part #	Diameter	Material	Weight
422.15	3/4"	SST	0.1 lb.
422.16	1"	SST	0.1 lb.
422.14	1 1/2"	SST	0.1 lb.
422.13	2"	SST	0.1 lb.
422.12	2 1/2"	SST	0.1 lb.
422.11	3"	SST	0.1 lb.

Gas Drill Accessories 🧐 The support bracket and side handle replacement are used with the Echo EDR-210 and the

EDR-260 gas drills. #213.79

Part #	Item	Weight
213.84	Echo Gas Drill Support Bracket	0.3 lb.
213.79	Echo Gas Drill Side Handle Replacement	0.3 lb.

Fax: 208-226-7280

#213.84

80 | AMS Accessories for Hand Sampling Products





Rocky Soil Screw Augers

Part #	Item	Adapter
214.28	2'' Carbide Bit	Splined
214.30	2'' Carbide Bit	SDS-Max

Concrete Bits

Part #	Item	Adapter
214.22	1 1/2" Concrete Bit	SDS-Max
214.26	2 1/2" Wild Bore Bit	SDS-Max
214.014	2 1/2" Wild Bore Bit	Splined

Concrete Bits, Core Bits, & Rocky Soil Screw Augers 🛞

Screw augers are used with rotary hammer drills to penetrate hard soils, asphalt, and concrete. They have extra large pilot tips, and include a built-in SDS-Max or splined adapter. Concrete bits are made for fast, accurate drilling with a rotary hammer drill. Concrete and wild bore bits are one-piece bits, while concrete core bits include a core body, SDS-Max or splined adapter, and a starter or pilot bit.

Concrete Coring Bits

Part #	Diameter	Length	Item	Adapter	Weight
260.51	2"	3"	Concrete Core Bit	SDS-Max	3.7 lb.
260.37	3"		Concrete Core Bit	SDS-Max	4.0 lb.
260.35	3"		Concrete Core Bit	Splined	4.0 lb.
260.40	3"		Heavy-Duty Concrete Core Bit	Splined	7.2 lb.
260.42	3"		Heavy-Duty Concrete Core Bit	SDS-Max	6.8 lb.

Concrete Coring Bits Replacement Parts & Accessories

Part #	Diameter	Length	Item	Adapter	Weight
260.24			Center Pin for 3" Concrete Core Bit		3.2 lb.
260.39			Replacement Guide Plate		0.2 lb.
260.50			7/16" Starter Bit for 3" Heavy-Duty Concrete Core Bit		0.2 lb.
260.13		18"	Concrete Core Bit Adapter	SDS-Max	2.9 lb.
260.28		18"	Concrete Core Bit Adapter	Splined	3.1 lb.
260.48		18"	Heavy-Duty Concrete Core Bit Adapter	SDS-Max	3.1 lb.
260.46		18"	Heavy-Duty Concrete Core Bit Adapter	Splined	3.4 lb.
260.18	3"		Core Bit (only)		3.0 lb.
260.44	3"		Heavy-Duty Core Bit (only)		6.0 lb.

(Information Available on AMS Website



#260.37

#260.42

#214.28 #214.26



Tubing Options 🚳

Silicone tubing is used as a bridge between sampler fittings and either fluoropolymer or polyethylene tubing. If the correct (#15 or #16) bridge tubing is used, it creates a great seal on barbed fittings. Fluoropolymer tubing can be used with the AMS Retract-A-Tip, dedicated tips, implants, and AMS sub-slab kits, as well as vacuum pumps for collecting soil gas samples. Polyethylene tubing is cost-effective for soil gas surveys. It can be used with AMS vacuum stations and pumps for collection of soil gas samples. Contact AMS customer service for more information.

Syringe & Cap

Syringes are ideal for soil gas sampling. Both luerslip and luer-lock are plastic greaseless, and sterile. The black and white syringe caps are unsterile; blue caps are sterile. The 3-way stopcock has a sterile rotating male luer lock. It is beneficial to include it along with a sample collection devise or into the sampling train, prior to purging ambient air and before collecting a sample.

Contact AMS customer service for more information.

Syringe & Cap

Part #	Item
2105.93	Sterile and Greaseless Luer Slip, 50 ml Syringe
2105.94	Sterile and Greaseless Luer Lock, 50 ml Syringe
2105.95	Black Syringe Caps (1,000 qty)
2105.96	White Syringe Caps (100 qty)
2105.97	Blue Sterile Syringe Caps (100 qty)
2105.98	Sterile 3-way Stopcock/Valve

GVP Tubing Options

Part #	ltem	Weight
5004.47	#15 x 50' Silicone Tubing	
5004.48	#15 x 500' Silicone Tubing	
5004.53	#16 x 25' Silicone Tubing	
214.98	3/16" ID x 1/4" OD x 50' Fluoropolymer Tubing	1.1 lb.
214.99	3/16" ID x 1/4" OD x 100' Fluoropolymer Tubing	2.1 lb.
215.00	3/16" ID x 1/4" OD x 250' Fluoropolymer Tubing	5.1 lb.
215.12	3 /16" ID x 1/4" OD x 500' Polyethylene Tubing	
215.03	1/4" ID x 3/8" OD x 50' Fluoropolymer Tubing	
215.04	1/4" ID x 3/8" OD x 100' Fluoropolymer Tubing	

Tedlar Bags

AMS offers Tedlar bags in a wide variety of sizes. One liter, 3L, 5L, and 10L bags are available. Tedlar bags are recommended in many US EPA methods including TCLP and methods TO-3 (VOCs), TO-12 (NMOC), TO-14A (VOCs), TO-15 (VOCs), and ASTM D-5504 (reduced sulfur compounds). For more information on Tedlar bags and other AMS sampling equipment, contact AMS customer service.

Tedlar Bag

Part #	Item
2105.92	1 L Tedlar Bags (10 qty) Lot Certification (TO-14)
2105.91	3 L Tedlar Bags (10 qty) Lot Certification (TO-14)
2105.89	5 L Tedlar Bags (10 qty) Lot Certification (TO-14)
2105.88	10 L Tedlar Bags (10 qty) Lot Certification (TO-14)

Removal Jack 🕸

Special adapters allow removal jacks to retrieve tile probes, core samplers, split-core samplers, gas vapor probes, sediment samplers, soggy bottom samplers, and other tooling that is difficult to retrieve. They can create a smoother pulling motion than reverse hammering with a slide hammer – which helps you retain more of your sample during retrieval.

Removal Jack

Part #	Item	Weight
211.05	Removal Jack	30 lb.
211.06	Tee Jack Adapter	1.1 lb.
18253	Big Foot Removal Jack	35 lb.



Vacuum Pumps 🕲

The hand vacuum pump is a simple system for both soil gas and groundwater sampling. It has a vacuum gauge release valve and fittings. For sites with no accessible electricity, samples can be taken into suitable test containers.

The 12-volt vacuum pump is a diaphragm-style pump that is used for filling test containers. It has a 15" cord and plug. It is portable, and the pump will collect soil gas and groundwater samples into containers.



Vacuum Pumps

Part #	Item	Weight
215.06	Manual / Hand Vacuum Pump	1.6 lb.
5052.40	Electric Vacuum Pump (12 Volt)	1.7 lb.



Vacuum Station 🛞

The vacuum station comes complete with 12-volt vacuum pump, low-flow rotometer, flow regulator valve, line gauge, and mobile platform. It can be used to comply with most regulations and methods for collection of soil gas samples.

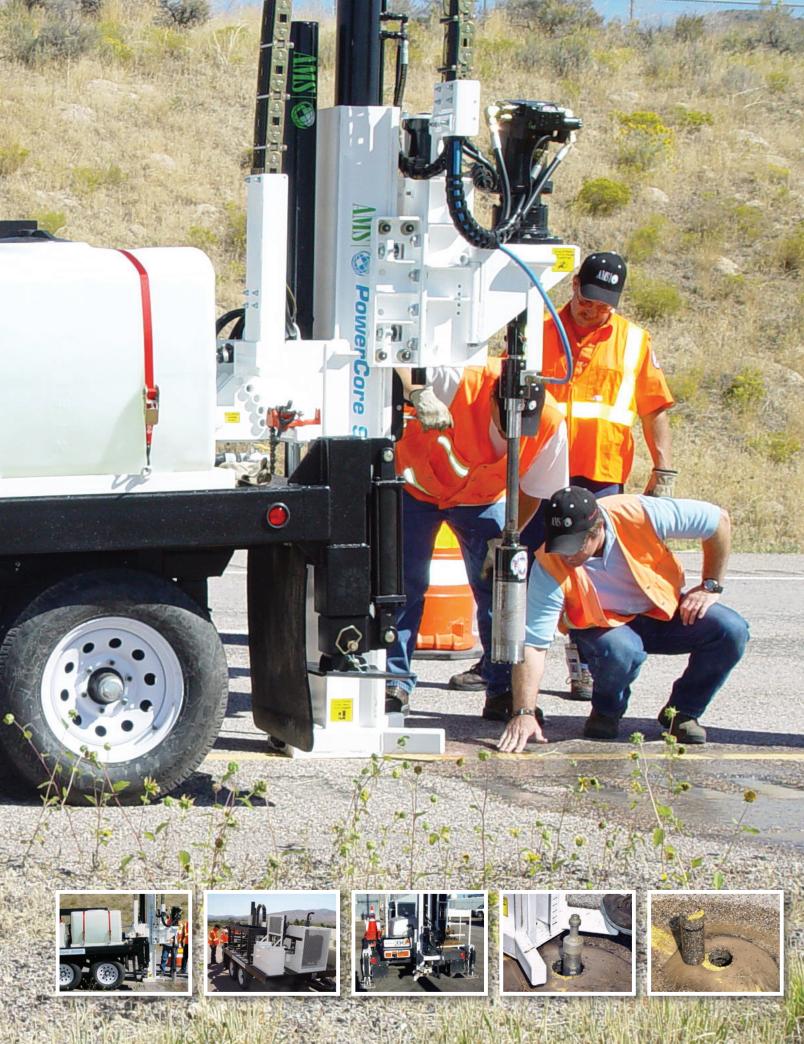
Phone: 800-635-7330

AMS PowerCore & Sonic Drill Chapter Review

Groundwater Well Sampling & Monitoring Systems	Page 84
SK-3500 System	Page 84
SK-7000 System	Page 84
Port-A-Reels	Page 84
PowerCore System	Page 85
PowerCore System Standard & Deluxe PowerCore Systems	
	Page 85







Groundwater Well Sampling & Monitoring Systems

AMS offers a variety of groundwater well sampling and monitoring systems that include manual and hydraulic Port-A-Reels as well as truck or trailer mounted systems. These systems increase well-monitoring efficiency, and save time, money and labor. They simplify purging and sampling of monitoring wells, monitor water quality and flow rate, and allow for determination of the nature and extent of contamination - resulting in the identification of areas of concern so resources can be focused on where they will be most effective. Sediment samplers (page 56), bailers (page 62), and direct push groundwater sampling and monitoring systems (page 116) are also available.

Areas are contaminated through liquid waste discharge from cribs, ditches, trenches, ponds, tanks and wells. Class V injection wells are of particular concern and pose the greatest threat to drinking water. They include motor vehicle waste disposal wells, industrial waste disposal wells, large-capacity cesspools and septic systems, agricultural drainage, storm water drainage, and geothermal wells.



SK-3500 System 🚮

The SK-3500 is the smallest of the AMS well management systems. It was designed for users with a limited number of wells to monitor. This capable unit is available with manual or hydraulic systems. The automated, hydraulic-driven boom with double-spool system will handle sampling jobs up to 300ft deep. The SK-3500 is built on a self-contained skid that can easily be slid into or out of a transport vehicle such as a pickup truck, flatbed truck or trailer.

> "Hydraulic Port-A-Reels double efficiency. They maximize flow rates and greatly reduce equipment maintenance and replacement. They reduce the potential for injury - hydraulic up/down eliminates hand cranking, and the boom system eliminates loading and unloading heavy reels and pumps."

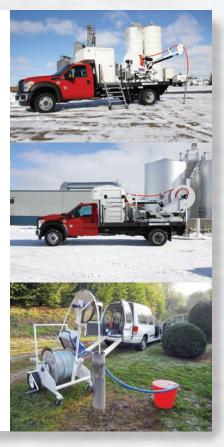
 Tony Kirk, Hydrogeologist, Water Replenishment District of Southern California

"Our TK-9000 truck is the workhorse of our fleet. I cannot say enough about it. It proves its worth on a daily basis."

- Craig Patterson, Environmental Specialist **Orange County Water District**

SK-7000 System

This unit allows for purging and sampling of multiple groundwater monitoring wells. It offers full automation for pump deployment, retrieval, and operation for groundwater pumping to depths of up to 300". It is powered by an on-board gas or diesel generator, and it provides integrated remote-controlled hydraulic operation of the boom system, and power for the groundwater pumps, hot water preassure washer, and transfer pump.



Port-A-Reels

AMS Port-A-Reels are convenient for purging and sampling wells with an electric submersible pump. All of the components are built-in to the system – including the pump, motor cable and hose. The rugged powder-coated frame has large, 16" pneumatic tires with extendable swivel castors on the front. The boom is extendable to accommodate different well casing heights. The units are also fitted with a footage counter. Standard models have a hand crank and reel brake. Hydraulic models includes a 1 HP, 110-volt electric driven hydraulic pump motor with a pendant control. For more information, contact AMS customer service.

* Please see page 122 for more details

Port-A-Reels

TOTE A RECEIS		
Part #	Item	Weight
2602.15	150' Manual Port-A-Reel with Redi-Flo 2'' Pump	177 lb.
2602.30	300' Manual Port-A-Reel with Redi-Flo 2" Pump	229 lb.
2603.15	150' Hydraulic Port-A-Reel with Redi-Flo 2" Pump	323 lb.
2603.30	300' Hydraulic Port-A-Reel with Redi-Flo 2'' Pump	365 lb.



PowerCore Systems

AMS PowerCore asphalt & concrete coring systems provide a convenient, cost-effective method for retrieving a soil sample covered by pavement. Rather than having to remove large sections of the concrete or asphalt, simply core a small diameter hole through which you can collect multiple clean core samples. These systems mount to compact, mid or full-sized pickup trucks or trailers. A mounted slider system allows for easy in-and-out as well as side-to-side motion. This allows the user to take multiple samples without repositioning the rig. Two rear-mounted outrigger jacks increase stability, and front-mounted outrigger jacks can be added to some models for additional stability. They also make loading, unloading, and storage of the unit quick and simple.



Standard & Deluxe PowerCore Systems 🛞

The standard PowerCore package includes a 60 gallon tank, drill mount column, powder-coated frame, and two manual outriggers. The deluxe PowerCore includes a 5000 Kw Honda generator, 110 volt two-speed electric Husquarna motor, drill mount column, 60 gallon tank, powder-coated frame, and two manual outriggers.

PowerCore Concrete & Asphalt Coring Bits 🛞

Core barrels are used with water to get intact cores of concrete and asphalt. A variety of sizes are available. Concrete and asphalt core bits require an adapter. A 3.5" OD concrete and asphalt punch can be used to punch cores through roadways or parking lots in order to determine the substructure design without using water that could affect the integrity of the sample. This punch is used with PowerCore units that have a hydraulic hammer as well as with AMS PowerProbes[™]. See page 128 for details on the concrete and asphalt punch.





PowerCore 9500 System

The PowerCore 9500 allows you to limit the number of employees needed on site. Each model is set up with our standard direct push capability by using a 90'-lb. hydraulic hammer along with a 2400 ft-lb. hydraulic core motor that can core through concrete and asphalt to allow access for the collection of continuous intact soil cores. All trailer and truck-mounted models can be customized with on-board generators, electric hi-speed motors, water tanks, tooling racks, and lockable aluminum storage compartments to fit your specific needs.

"We use the AMS PowerCore coring system for pavement evaluations on asphalt and concrete highways. Since the PowerCore design does not require a dedicated vehicle, it has given us greater versatility in the use of our equipment and manpower. This combined with its ease of operation, has proven to be a safe, productive, and efficient complement to our equipment."

Idaho Transportation
 Department Personnel

CONTRACTORS TAKEN IN

Phone: 800-635-7330

208-226-2017