



*The world's finest  
sampling equipment.*

**Applications Include:**

- **Agricultural Sampling**
- **Archeological Investigations**
- **Concrete & Asphalt Coring**
- **Direct Push Drilling**
- **Environmental Sampling & Monitoring**
- **Geo-Construction**
- **Geotechnical Testing**
- **Geothermal Heat Loop Installation**
- **Golf & Turf Maintenance**
- **Groundwater Sampling & Monitoring**
- **Hollowstem Augering**
- **Landscaping, Construction,  
& Formation Stabilization**
- **Mineral & Exploration Sampling**
- **Seismic Shot-Hole Drilling**
- **Site Cleanup & Remediation**
- **Sludge & Sediment Sampling**
- **Soil & Soil Gas Sampling**
- **Surface & Groundwater Sampling**
- **Water Well Installation**
- **And More!**



**Soil & Soil Gas Sampling**



**Sediment & Water Sampling**



**Groundwater Monitoring**



**PowerProbe™ Direct Push Rigs**



## AMS Customer Service

At AMS, our knowledgeable and friendly staff is here to assist you with detailed product information, special orders, delivery scheduling, and more. If you would like assistance determining which tool to use, how to use it, or if you need equipment customized to fit your specific needs, contact our knowledgeable customer service and sales staff.

***Making you successful is our job!***

### Office Hours:

Monday - Friday  
7 am - 5 pm (MST)

### Manufacturing Hours:

Monday - Thursday  
7 am - 5 pm (MST)



***Made with pride  
in the U.S.A.***



### AMS Customer Service

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## Continuing the Greatness and Breaking New Ground!

Since AMS Inc. was founded in 1942, our products have been used by individuals, businesses, non-profits, governments, and universities throughout the world for a wide variety of sampling purposes. AMS equipment is primarily used for environmental and geotechnical sampling and monitoring, as well as for remediation activities. They also provide simple solutions for a variety of other activities, including: agriculture, construction, golf & turf, mining, and pest control.

AMS, Inc. manufactures hand augers, soil probes, core samplers, sludge and sediment samplers, gas vapor probes, and since 1994, AMS PowerProbes direct-push drill rigs. AMS PowerProbes can be mounted on pick-up trucks, tracks, or trailers, and have gained widespread acceptance due to their versatility, relatively low cost, and ease of mobility. They are designed to be used for: soil, soil gas, and groundwater sampling and testing; remediation investigations; geophysical and geotechnical tests; installing monitoring wells; and most models can be fitted with hollowstem augering capability.

Since their introduction, the AMS PowerProbe™ and our direct push tooling lines have grown considerably. Technology has improved rapidly and AMS has worked hard to increase the power of our rigs and making both the tooling and the rigs more versatile, safer, and easier to use. Today, the AMS PowerProbe™ provides customers around the world with the ability to install monitoring wells, inject remediation compounds. Most models can also be fitted with hollowstem augering capability which can allow our direct push tooling to be used telescopically through the hollowstem augers – allowing greater depths to be reached.

Our next generation tooling is raising industry standards. We've not only increased the power and versatility of our machines we have increased thread strength in our G3 tooling!



AMS products and helpful information such as instructional videos, technical data sheets, and product manuals can be found on the AMS website, [www.ams-samplers.com](http://www.ams-samplers.com). You can also keep up to date on newly released AMS products by visiting us online.

**Order by phone: 800-635-7330 208-226-2017**

**by fax: 208-226-7280**

**online: [www.ams-samplers.com](http://www.ams-samplers.com)**

## New Products

After nearly 70 years, we at AMS continue to focus on providing our customers with the highest quality sampling equipment on the market. Our new professional line of manual augering and sampling equipment as well as the new 9570-VTR PowerProbe™ are perfect examples of our dedication to improvement and to you, our valued customers.

The new professional series hand augers, core samplers, and sampling kit were designed around the specific needs and preferences of today's soil sampling professional. They feature the robust AMS 3/4in thread, and they are generally stronger and more durable than other augers and samplers. For details, see pages 4, 16-18, and 33, respectively.

The new 9570-VTR PowerProbe™ has a load of new features, including more push, more pull, and more power. See pages 65 and 68-69 for details.

## Rental Policies

Renting has become a popular alternative to purchasing equipment because it gives our customers with seasonal business or special circumstances more flexibility. The majority of AMS hand sampling equipment is available for rent. Any expendable items that are to be used with the rented products must be purchased. Contact AMS for more information and details on availability.

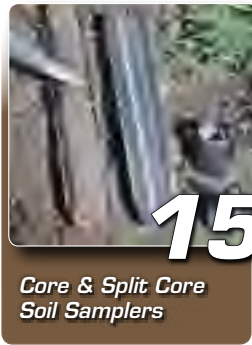
## Price Changes

Every effort has been made to accurate pricing for 2011. However, due to the volatility of the marketplace and the associated impact on raw material costs as well as exchange rate fluctuations, we reserve the right to change catalog prices at any time without notice. As AMS is committed to customer service we will do everything we can to announce changes, and current pricing will be available on our website.



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Soil Augers & Augering Systems



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Core & Split Core Soil Samplers



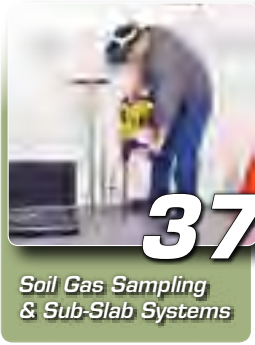
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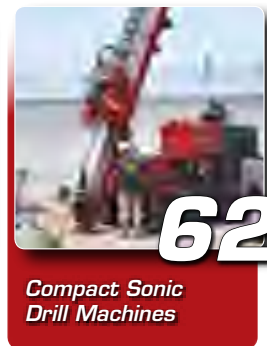
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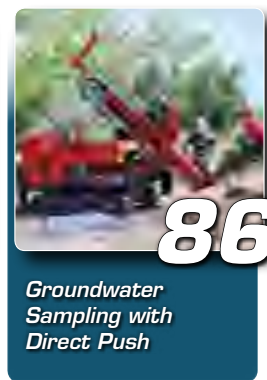
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## AMS Cross Handles

AMS 18in and 22in rubber-coated handles are made of chromoly and are coated with textured rubber. The 18in rubber-coated handles are available with signature series, 3/4in threaded, 5/8in threaded, and quick connect connections. 22in models are only available with a 3/4in threaded connection. Ratcheting handles are available with signature series, 3/4in threaded, 5/8in 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.

### Signature Series, Cross Handles

Part#	Length	Item	Weight	Price
351.54	18in	Rubber-Coated Cross Handle	1.1 lb.	\$
351.56	18in	Ratcheting Cross Handle	2.4 lb.	\$

### 3/4in Threaded, Cross Handles

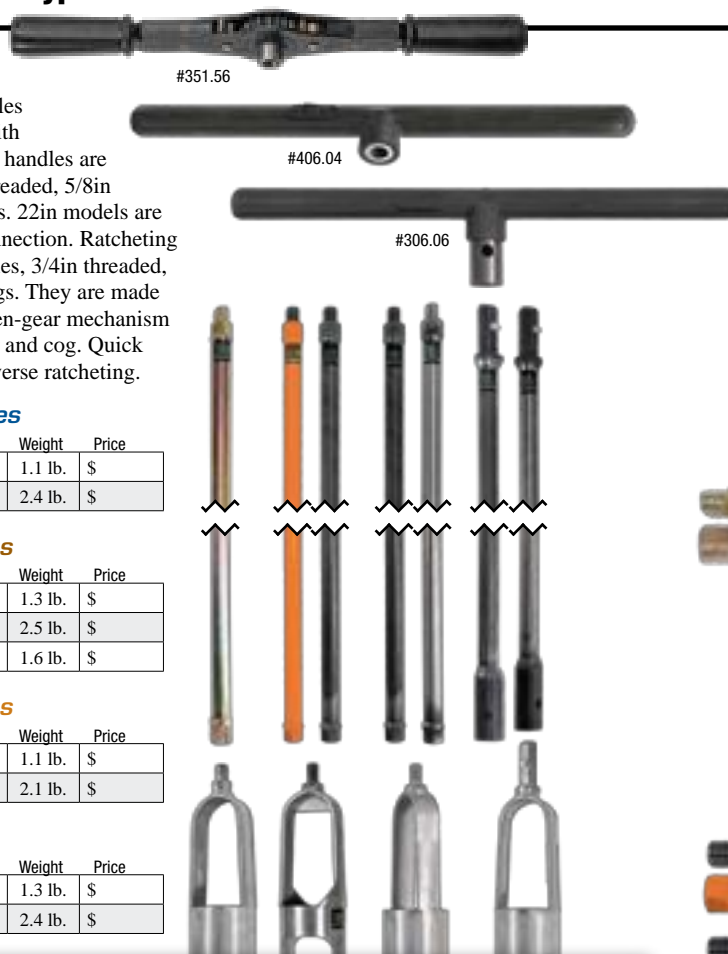
Part#	Length	Item	Weight	Price
402.31	18in	Rubber-Coated Cross Handle	1.3 lb.	\$
406.87	18in	Ratcheting Cross Handle	2.5 lb.	\$
406.05	22in	Rubber-Coated Cross Handle	1.6 lb.	\$

### 5/8in Threaded, Cross Handles

Part#	Length	Item	Weight	Price
406.04	18in	Rubber-Coated Cross Handle	1.1 lb.	\$
406.80	18in	Ratcheting Cross Handle	2.1 lb.	\$

### Quick Connect, Cross Handles

Part#	Length	Item	Weight	Price
306.06	18in	Rubber-Coated Cross Handle	1.3 lb.	\$
306.07	18in	Ratcheting Cross Handle	2.4 lb.	\$



## AMS Extensions

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

### Signature Series Extensions

Part#	Length	Material	Weight	Price
351.00	1ft	Plated	0.8 lb.	\$
351.01	2ft	Plated	1.2 lb.	\$
351.02	3ft	Plated	1.7 lb.	\$
351.03	4ft	Plated	1.7 lb.	\$
351.04	5ft	Plated	2.4 lb.	\$

### 3/4in Threaded Extensions

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

### 5/8in Threaded Extensions

Part#	Length	Material	Weight	Price
408.00	1ft		0.8 lb.	\$
408.01	2ft		1.2 lb.	\$
408.02	3ft		1.7 lb.	\$
408.03	4ft		2.3 lb.	\$
408.04	5ft		2.4 lb.	\$
409.06	1ft	SST	0.8 lb.	\$
409.07	2ft	SST	1.3 lb.	\$
409.08	3ft	SST	1.7 lb.	\$
409.09	4ft	SST	2.2 lb.	\$
409.10	5ft	SST	2.6 lb.	\$

### Quick Connect Extensions

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

## 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 55). Contact AMS if you are unsure which connection type to use.

### AMS 3/4in & 5/8in Threaded Connections

AMS 5/8in and 3/4in threaded connections use standard, national coarse, threads. 3/4in are used with the new AMS professional line of augers and samplers. 5/8in 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 Signature Series Connections

Signature series components feature a heavier thread than 5/8in 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 Quick Connect Connections

The AMS quick 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.

### 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 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 100ft 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 1/4in 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.



\*Auger cross handles and extensions are sold separately. For complete soil augering and sampling kits see pages 27-36. Telescoping and one-piece augering systems are also available (pages 12-14).



## AMS Bucket Augers

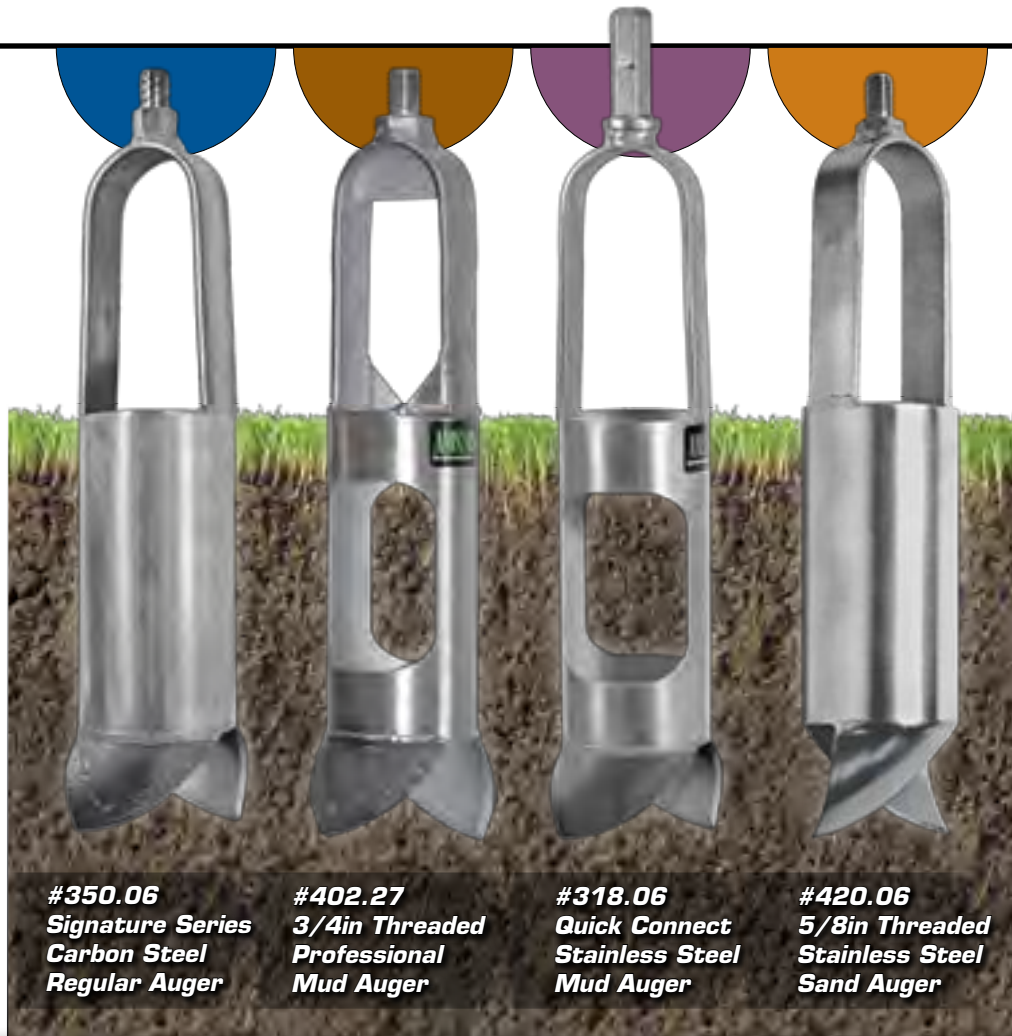
For over 60 years, AMS augers have been the preferred standard for manually creating boreholes and collecting disturbed soil samples. The first AMS auger was created in 1942 for the US Soil Conservation Service. This popular model has since been modified into a variety of regular augers, mud augers,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

### AMS Bucket Auger Connection Types

Regular, mud, and sand augers are available with either signature series, 3/4in threaded, 5/8in 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 2 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 5/8in threaded and quick connect connections.



**#350.06**  
**Signature Series**  
**Carbon Steel**  
**Regular Auger**

**#402.27**  
**3/4in Threaded**  
**Professional**  
**Mud Auger**

**#318.06**  
**Quick Connect**  
**Stainless Steel**  
**Mud Auger**

**#420.06**  
**5/8in Threaded**  
**Stainless Steel**  
**Sand Auger**

## New AMS 3/4in Professional Augers

The new professional series augers have been beefed up from bit to bale. They feature the trusted AMS 3/4in 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 3/4in threaded connections can be added to most AMS augers and core samplers for just \$25. Professional series extensions are constructed of a larger 1in 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 3/4in-diameter inner slide bar, and the split-core samplers feature a thicker (.800in) 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 3/4in threaded professional regular auger and mud auger (2 1/4in or 3 1/4in), as well as three 4ft extensions, a 10 lb. slide hammer, split-core sampler (2in x 6in or 1 3/8in x 6in), plastic liner, two end caps, 18in rubber-coated handle, rock breaker kit, and more. See page 33 or contact AMS customer service for more information.



### 3/4in Threaded, Professional Regular Auger

Part#	Diameter	Material	Weight	Price
402.38	4in		3.5 lb.	\$
402.25	3 1/4in		2.9 lb.	\$
402.26	2 3/4in		2.4 lb.	\$
402.36	2 1/4in		1.7 lb.	\$

### 3/4in Threaded, Professional Mud Auger

Part#	Diameter	Material	Weight	Price
402.39	4in		3.3 lb.	\$
402.27	3 1/4in		2.6 lb.	\$
402.28	2 3/4in		2.3 lb.	\$
402.37	2 1/4in		1.5 lb.	\$



**See the NEW**  
**Professional**  
**Sampling Kit**  
**on page 33**



#417.06

## 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.

### Signature Series, Regular Auger

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

### 3/4in Threaded, Regular Auger

Part#	Diameter	Material	Weight	Price
400.02	7in		9.5 lb.	\$
400.03	6in		7.8 lb.	\$

### 5/8in Threaded, Regular Auger

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

### Quick Connect, Regular Auger

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



#300.18

## Mud Auger

Mud augers utilize a laser-cut, 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.

### Signature Series, Mud Auger

Part#	Diameter	Material	Weight	Price
350.17	4in		2.7 lb.	\$
350.18	3 1/4in		1.6 lb.	\$
350.19	2 3/4in		1.9 lb.	\$
350.20	2 1/4in		1.6 lb.	\$

### 3/4in Threaded, Mud Auger

Part#	Diameter	Material	Weight	Price
400.12	7in		9.0 lb.	\$
400.15	6in		7.4 lb.	\$

### 5/8in Threaded, Mud Auger

Part#	Diameter	Material	Weight	Price
400.16	5in		4.3 lb.	\$
400.17	4in		3.3 lb.	\$
400.18	3 1/4in		2.3 lb.	\$
400.19	2 3/4in		1.9 lb.	\$
400.20	2 1/4in		2.3 lb.	\$
400.21	2in		1.5 lb.	\$
400.22	1 3/4in		1.2 lb.	\$
400.23	1 1/2in		1.0 lb.	\$
418.00	5in	SST	3.8 lb.	\$
418.07	4in	SST	3.4 lb.	\$
418.06	3 1/4in	SST	2.3 lb.	\$
418.05	2 3/4in	SST	2.0 lb.	\$
418.04	2 1/4in	SST	1.7 lb.	\$
418.03	2in	SST	1.5 lb.	\$
418.02	1 3/4in	SST	1.2 lb.	\$
418.01	1 1/2in	SST	1.0 lb.	\$

### Quick Connect, Mud Auger

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



#400.40

## 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.

### Signature Series, Sand Auger

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

### 3/4in Threaded, Sand Auger

Part#	Diameter	Material	Weight	Price
400.36	7in		10.7 lb.	\$
400.37	6in		7.8 lb.	\$

### 5/8in Threaded, Sand Auger

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

### Quick Connect, Sand Auger

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

#400.06

Augers create a borehole wider than the cylinder for easy removal.

#400.04

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



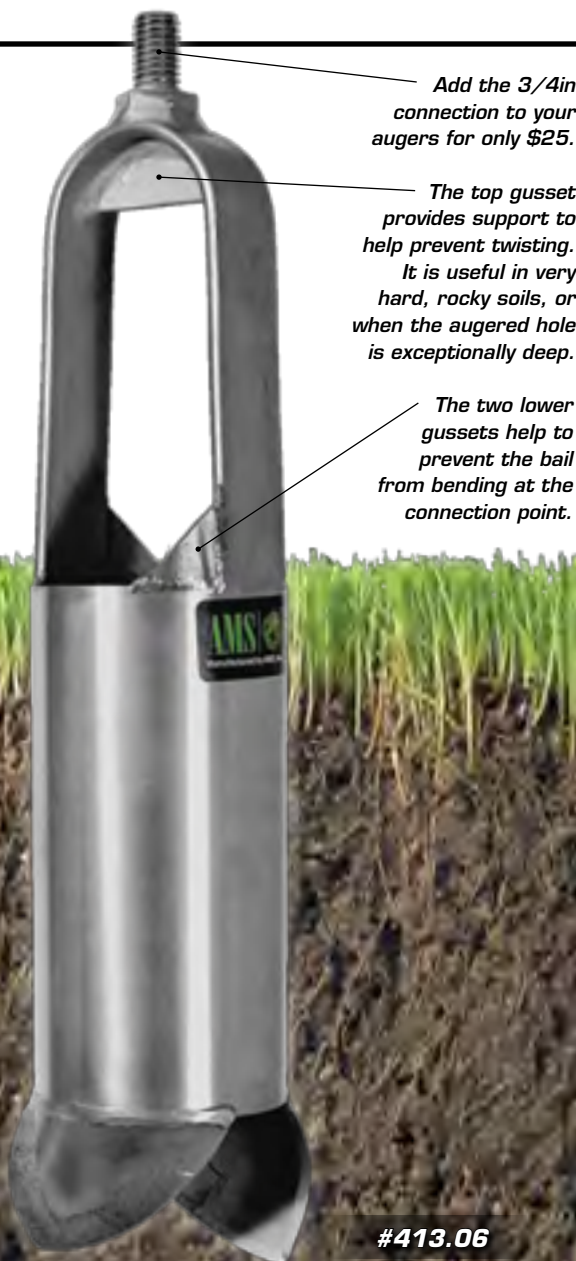
## Reinforced Augers

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 tungsten carbide hard-surfaced edges.**

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



Add the 3/4in connection to your augers for only \$25.

The top gusset provides support to help prevent twisting. It is useful in very hard, rocky soils, or when the augered hole is exceptionally deep.

The two lower gussets help to prevent the bail from bending at the connection point.

#413.06



#415.27

## 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.

### 5/8in Threaded, Reinforced Regular Auger

Part#	Diameter	Material	Weight	Price
413.04	5in		4.3 lb.	\$
413.05	4in		3.5 lb.	\$
413.06	3 1/4in		2.6 lb.	\$
413.07	2 3/4in		2.1 lb.	\$
413.08	2 1/4in		1.7 lb.	\$
415.31	5in	SST	4.1 lb.	\$
415.29	4in	SST	3.5 lb.	\$
415.27	3 1/4in	SST	2.6 lb.	\$
415.25	2 3/4in	SST	2.1 lb.	\$
415.23	2 1/4in	SST	1.7 lb.	\$

### Quick Connect, Reinforced Regular Auger

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



#413.05

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





#413.18

## 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.

### 5/8in Threaded, Reinforced Mud Auger

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

### Quick Connect, Reinforced Mud Auger

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

### 5/8in Threaded, Reinforced Sand Auger

Part#	Diameter	Material	Weight	Price
414.67	5in		4.3 lb.	\$
414.69	4in		3.5 lb.	\$
414.71	3 1/4in		2.6 lb.	\$
414.73	2 3/4in		2.1 lb.	\$
414.75	2 1/4in		1.7 lb.	\$
415.63	5in	SST	4.3 lb.	\$
415.79	4in	SST	3.6 lb.	\$
415.77	3 1/4in	SST	2.6 lb.	\$
415.75	2 3/4in	SST	2.2 lb.	\$
415.71	2 1/4in	SST	1.8 lb.	\$

### Quick Connect, Reinforced Sand Auger

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



#413.18

5/8in threaded, reinforced mud auger



#413.05

5/8in threaded, reinforced regular auger

## 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.



used #300.07

fixed #300.07

Regular Bits			Mud Bits		Sand Bits	
Diameter	Part#	Price	Part#	Price	Part#	Price
5in	415.15	\$	400.27	\$	423.07	\$
4in	400.73	\$	400.28	\$	423.06	\$
3 1/4in	415.30	\$	400.29	\$	423.05	\$
2 3/4in	415.20	\$	400.30	\$	423.04	\$
2 1/4in	400.72	\$	400.31	\$	423.03	\$
2in	400.74	\$	400.32	\$	423.08	\$
1 3/4in	400.71	\$	400.33	\$	423.02	\$
1 1/2in	400.70	\$	400.34	\$	423.01	\$

## Edelman Augers

These augers feature Eijkelkamp's quality edelman auger bodies combined with the versatility of the AMS 5/8in 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 10.



**The combination, clay, sand, and coarse sand edelman augers are used for soil composition, soil profiling, and soil mapping. The combination edelman is the most commonly used, but the auger type should be chosen with respect to the soil conditions.**

### 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 13 for details.

#### Signature Series, Combi Edelman Auger

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

#### 5/8in Threaded, Combi Edelman Auger

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

#### Quick Connect, Combi Edelman Auger

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



#401.69  
Shown at multiple angles





401.91



401.81



401.87



401.97

### Coarse Sand Edelman Augers

Edelman coarse sand augers are used in very non-cohesive, dry, sandy soils. The blades of the auger are extended to almost close the auger.

#### Signature Series, Coarse Sand Edelman Auger

Part#	Diameter	Weight	Price
401.92	2 3/4in (7cm)	1.5 lb.	\$

#### 5/8in Threaded, Coarse Sand Edelman Auger

Part#	Diameter	Weight	Price
401.91	2 3/4in (7cm)	1.5 lb.	\$

#### Quick Connect, Coarse Sand Edelman Auger

Part#	Diameter	Weight	Price
401.93	2 3/4in (7cm)	1.5 lb.	\$

### 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	Price
401.79	2 3/4in (7cm)	1.1 lb.	\$
401.82	4in (10cm)	1.8 lb.	\$

#### 5/8in Threaded, Sand Edelman Auger

Part#	Diameter	Weight	Price
401.78	2 3/4in (7cm)	1.1 lb.	\$
401.81	4in (10cm)	1.8 lb.	\$

#### Quick Connect, Sand Edelman Auger

Part#	Diameter	Weight	Price
401.80	2 3/4in (7cm)	1.1 lb.	\$
401.83	4in (10cm)	1.8 lb.	\$

### Clay Edelman Augers

Edelman clay augers have narrow blades that minimize friction in cohesive soils and cause little resistance during retrieval.

#### Signature Series, Clay Edelman Auger

Part#	Diameter	Weight	Price
401.85	2 3/4in (7cm)	0.9 lb.	\$
401.88	4in (10cm)	1.6 lb.	\$

#### 5/8in Threaded, Clay Edelman Auger

Part#	Diameter	Weight	Price
401.84	2 3/4in (7cm)	0.9 lb.	\$
401.87	4in (10cm)	1.6 lb.	\$

#### Quick Connect, Clay Edelman Auger

Part#	Diameter	Weight	Price
401.86	2 3/4in (7cm)	0.9 lb.	\$
401.89	4in (10cm)	1.6 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	Price
401.95	2 3/4in (7cm)	2.1 lb.	\$
401.98	4in (10cm)	3.0 lb.	\$

#### 5/8in Threaded, Stony Soil Auger

Part#	Diameter	Weight	Price
401.94	2 3/4in (7cm)	2.1 lb.	\$
401.97	4in (10cm)	3.0 lb.	\$

#### Quick Connect, Stony Soil Auger

Part#	Diameter	Weight	Price
401.96	2 3/4in (7cm)	2.1 lb.	\$
401.99	4in (10cm)	3.0 lb.	\$


**#401.91**

The coarse sand edelman auger is able to collect dry, sandy soils that have little or no cohesion.


**#401.97**

The 4in stony soil auger has an added support gusset to prevent bending or twisting.



#400.55

## 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 13.

### Signature Series, Open-Face Auger

Part#	Diameter	Weight	Price
400.57	2.5in	1.3 lb.	\$

### 5/8in Threaded, Open-Face Auger

Part#	Diameter	Weight	Price
400.55	2.5in	1.3 lb.	\$

### Quick Connect, Open-Face Auger

Part#	Diameter	Weight	Price
400.56	2.5in	1.7 lb.	\$



#55647

## 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 open-face auger (page 13).



### Idaho Spoon

Part#	Weight	Price
55647	0.5 lb.	\$

## 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 Eijkelpkamp combination edelman auger. See page 8 for more details.



#400.59

### Signature Series, Dutch Augers

Part#	Diameter	Weight	Price
350.59	3in	1.3 lb.	\$
350.61	2in	1.0 lb.	\$

### 5/8in Threaded, Dutch Augers

Part#	Diameter	Weight	Price
400.59	3in	1.3 lb.	\$
400.61	2in	1.0 lb.	\$

### Quick Connect, Dutch Augers

Part#	Diameter	Weight	Price
300.59	3in	1.7 lb.	\$
300.61	2in	1.5 lb.	\$



#400.61

**Dutch augers are ideal in heavily rooted areas. They are excellent in forests, vineyards, and orchards.**



#421.08

## Soil Recovery Augers

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, solid-vented 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 1/4in smaller in diameter than the cylinder. AMS also offers core and split-core samplers (pages 15-18). Disposable core samplers that allow for field extraction, extrusion, and preservation are also available (page 96).

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

### 5/8in Threaded, Soil Recovery Augers

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

## Soil Recovery Auger Replacement Parts

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



## Triple-Lead Flighted Screw Augers

AMS triple-lead flighted screw augers are able to bore holes into hard, rocky, and 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 34-35 for more information on powered kits.

### 5/8in Threaded, Triple-Lead Flighted Screw Augers

Part#	Diameter	Length	Weight	Price
424.60	1 1/4in	18in	2.0 lb.	\$
424.61	1 1/2in	18in	2.0 lb.	\$



#424.60

## Flighted Screw Augers

AMS flighted screw augers are used in hard, rocky, and compacted soils. They 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 single-twisted flighting with smooth edges that allow for easy soil penetration.

### 5/8in Threaded, Flighted Screw Augers

Part#	Diameter	Length	Weight	Price
405.05	2in	12in	2.2 lb.	\$
405.03	1 3/4in	12in	1.8 lb.	\$
405.02	1 1/2in	12in	1.5 lb.	\$

### Quick Connect, Flighted Screw Augers

Part#	Diameter	Length	Weight	Price
305.01	2in	12in	4.8 lb.	\$
305.03	1 3/4in	12in	3.6 lb.	\$
305.02	1 1/2in	12in	3.0 lb.	\$



#405.02



#405.05

**Light-weight flighted augers are made for hardened soils.**



#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.

### 5/8in Threaded, Planer Augers

Part#	Diameter	Weight	Price
400.51	3 1/4in	2.0 lb.	\$
400.52	2 3/4in	1.6 lb.	\$
400.53	2 1/4in	1.3 lb.	\$



#54545



#53764

## Gouge Augers

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 54 for details.



### 5/8in Threaded, Gouge Augers

Part#	Diameter	Length	Material	Weight	Price
54545	1 1/4in	40in		4.3 lb.	\$
53764	2 1/2in	40in	SST	10.2 lb.	\$



#54545

**Samples collected with gouge augers can be viewed immediately.**

## 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, 3/4in threaded, 5/8in threaded, and quick connect connections. They come with a 3 1/4in regular auger, 4ft extension, and an 18in rubber-coated handle.

The auger heads included in these kits are AMS carbon steel models that feature heat-treated, high-carbon steel cutting teeth with tungsten carbide hard-surfaced edges. The 3/4in field kit utilizes the new 3 1/4in professional auger, which has thicker bits with extra tungsten carbide hard surfacing and stronger welds.

The auger bails and cylinders are made of stainless steel – except the bail of the new professional auger, which is reinforced to help prevent bending and twisting when the user is augering into hard or rocky soils, or when the augered hole is exceptionally deep. See page 4 for more information on regular augers and the new professional series augers.

Signature series extensions are zinc-coated, and the connection type features 2 1/2-turn connection and disconnection. The quick connect connection allows for connection and disconnection with just the simple push of a button. Professional series extensions are powder-coated safety orange, and they are constructed with a larger (1in-diameter) chromoly tubing to provide extra strength. The professional, 3/4in connection type is our most durable connection, and it is the best connection for those augering in hard, rocky soils, or in relatively deep boreholes. It is also compatible with the new 3/4in AMS professional series slide hammer – which can be used with the new AMS professional series 3/4in split-core soil samplers. See the professional sampling kit on page 33 for all of the components available for new line.

See page 1 for more information on AMS connection types. Augering and sampling kits are also available. See pages 27-36.



### Signature Series, 3 1/4in Regular Soil Auger Field Kit

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



### 3/4in Threaded, Professional 3 1/4in Regular Soil Auger Field Kit

Part#	Item	Weight	Price
400.143	3 1/4in Pro Auger Field Kit	6.5 lb.	\$
REPLACEMENT PARTS			
402.25	3 1/4in Regular Auger	2.9 lb.	\$
402.32	4ft Extension	2.0 lb.	\$
402.31	18in Rubber-Coated Handle	1.3 lb.	\$



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

Part#	Item	Weight	Price
400.14	3 1/4in Reg. Auger Field Kit	5.3 lb.	\$
REPLACEMENT PARTS			
400.06	3 1/4in Regular Auger	2.6 lb.	\$
408.03	4ft Extension	2.3 lb.	\$
406.04	18in Rubber-Coated Handle	1.3 lb.	\$



### Quick Connect, 3 1/4in Regular Soil Auger Field Kit

Part#	Item	Weight	Price
400.142	3 1/4in QC Auger Field Kit	7.7 lb.	\$
REPLACEMENT PARTS			
300.06	3 1/4in Regular Auger	2.9 lb.	\$
309.03	4ft Extension	3.2 lb.	\$
306.06	18in Rubber-Coated Handle	1.3 lb.	\$





## One-Piece Regular Soil & Mud Augers

AMS one-piece regular augers and mud augers are powder-coated for rust-resistance and have an attached 16in rubber-gripped cross handle. They are inexpensive, lightweight alternatives for anyone who does not need to bore holes deeper than 4ft. The 4in 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 53in in length.

### One-Piece Regular Soil Augers

Part#	Diameter	Length	Weight	Price
400.48	2 3/4in	53in	4.1 lb.	\$
400.46	4in	53in	5.5 lb.	\$

### One-Piece Mud Augers

Part#	Diameter	Length	Weight	Price
400.49	2 3/4in	53in	4.1 lb.	\$
400.47	4in	53in	5.5 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 open-face design is especially useful for obtaining quick visual profiles and provides for easy soil extraction. The attached 16in rubber-gripped handle gives it a total length of 48in and can be used to auger to 3ft below the ground surface. The auger is made of gold zinc-plated chromoly.

### One-Piece Open-Face Auger

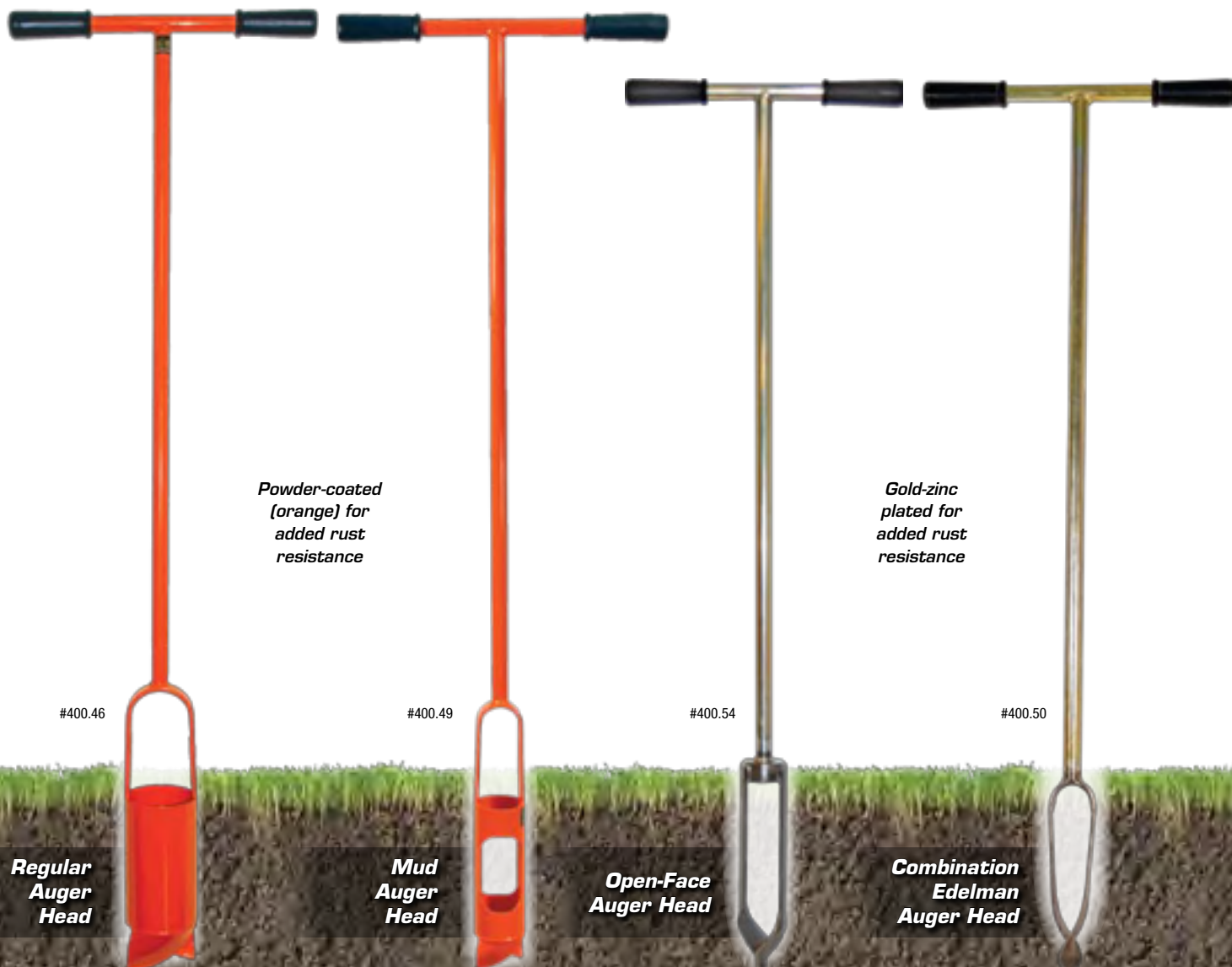
Part#	Diameter	Length	Weight	Price
400.54	2 1/2in	48in	4.1 lb.	\$

## One-Piece Combination Edelman Auger

The one-piece combination edelman auger has a total length of 48in and is capable of augering as deep as 3ft. The attached 16in 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

Part#	Diameter	Length	Weight	Price
400.50	2 3/4in (7cm)	48in (122cm)	3.0 lb. (1.4kg)	\$



**FOR MORE ALL-IN-ONE AUGERING AND SAMPLING SOLUTIONS, SEE AMS SAMPLING KITS ON PAGES 27-36.**

## Telescoping Augers

AMS telescoping auger systems extend to 8ft! These auger setups are 5ft 4in 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 18in 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 hard-surfacing. The handles and extensions are made of chromoly. Contact AMS customer service for more information.

### Telescoping Regular Soil Auger Kits

Part#	Diameter	Weight	Price
301.68	2 1/4in	6.9 lb.	\$
301.67	2 3/4in	7.2 lb.	\$
301.66	3 1/4in	7.7 lb.	\$
301.65	4in	8.6 lb.	\$

### Telescoping Mud Auger Kits

Part#	Diameter	Weight	Price
301.80	2 1/4in	5.7 lb.	\$
301.79	2 3/4in	6.0 lb.	\$
301.78	3 1/4in	7.4 lb.	\$

### Telescoping Sand Auger Kits

Part#	Diameter	Weight	Price
301.90	3 1/4in	7.9 lb.	\$

### Telescoping Replacement Parts & Accessories


Part#	Diameter	Length	Item	Weight	Price
301.08	2 1/4in		Telescoping Regular Auger	1.8 lb.	\$
301.20	2 1/4in		Telescoping Mud Auger	1.6 lb.	\$
301.42	2 1/4in		Telescoping Sand Auger	1.8 lb.	\$
301.07	2 3/4in		Telescoping Regular Auger	2.8 lb.	\$
301.19	2 3/4in		Telescoping Mud Auger	1.8 lb.	\$
301.41	2 3/4in		Telescoping Sand Auger	2.8 lb.	\$
301.06	3 1/4in		Telescoping Regular Auger	2.5 lb.	\$
301.18	3 1/4in		Telescoping Mud Auger	2.2 lb.	\$
301.40	3 1/4in		Telescoping Sand Auger	2.7 lb.	\$
301.05	4in		Telescoping Regular Auger	3.6 lb.	\$
301.17	4in		Telescoping Mud Auger	3.3 lb.	\$
301.39	4in		Telescoping Sand Auger	3.5 lb.	\$
407.35		4ft-8ft	Telescoping Extension	4.4 lb.	\$
406.81		18in	Telescoping Cross Handle	0.8 lb.	\$
406.84		18in	Telescoping Ratcheting Handle	2.1 lb.	\$
MISCELLANEOUS					
12766			Snap Pin	0.1 lb.	\$



**#301.67**

**Non-Extended Length: 5ft 4in**  
**Partially Extended Length: 6ft 6in**  
**Fully Extended Length: 8ft**





You can now add the  
AMS 3/4in connection  
to core and split-core  
samplers for only \$25.

#403.41

Split-core samplers allow  
for immediate examination  
of the collected soil samples.  
See page 18 for details.

## AMS Soil Core Samplers

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.



AMS multi-stage soil core samplers allow you to collect samples up to 48in in length.



## 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 29.

\*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 55.



#404.45

## Signature Series, Core Sampler Cup & Caps

Part#	Diameter	Length	Material	Weight	Price
354.16	2in	6in		2.9 lb.	\$
354.15	1 1/2in	6in		2.1 lb.	\$

## 5/8in Threaded, Core Sampler Cup & Caps

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



Collect a soil core sample from the surface or a pre-augered borehole.

## 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.



#404.45

## Signature Series, Core Sampler Completes

Part#	Diameter	Length	Material	Weight	Price
354.26	2in	6in		13.1 lb.	\$
354.25	1 1/2in	6in		12.3 lb.	\$

## 5/8in Threaded, Core Sampler Completes

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



Core samples are collected into liners.

## Signature Series, Core Sampler Caps

Part#	Diameter	Length	Material	Weight	Price
354.01	1 1/2in			0.8 lb	\$
354.02	2in			1.2 lb	\$
354.03	2 1/2in			1.7 lb	\$
354.04	3in			2.4 lb	\$

## 5/8in Threaded, Core Sampler Caps

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

## Core Sampler Cups

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

## Plastic Liners, End Caps, & Core Catchers

Part#	Diameter	Length	Item	Weight	Price
405.08	1 1/2in	6in	Liner	0.1 lb.	\$
406.53	1 1/2in	12in	Liner	0.1 lb.	\$
404.18	2in	2in	Liner	0.1 lb.	\$ 1.60
404.19	2in	3in	Liner	0.1 lb.	\$ 1.90
404.20	2in	4in	Liner	0.1 lb.	\$ 2.20
404.21	2in	6in	Liner	0.2 lb.	\$ 2.80
422.03	2in	8in	Liner	0.2 lb.	\$ 4.40
422.04	2in	10in	Liner	0.2 lb.	\$ 4.90
405.10	2in	12in	Liner	0.2 lb.	\$ 5.20
406.55	2 1/2in	6in	Liner	0.2 lb.	\$ 3.40
405.09	3in	6in	Liner	0.2 lb.	\$ 3.80
418.08	1 1/2in		Liner End Cap	0.1 lb.	\$ 0.21 ea.
418.10	2in		Liner End Cap	0.1 lb.	\$ 0.42 ea.
404.85	2 1/2in		Liner End Cap	0.1 lb.	\$ 0.42 ea.
418.09	3in		Liner End Cap	0.1 lb.	\$ 0.52 ea.
404.91	2in		Core Catcher	0.1 lb	\$ 6.20
404.90	2in		Eggshell Core Catcher	0.1 lb	\$ 9.70

## Replacement Slide Hammers

Part#	Item	Weight	Price
350.99	Signature Series Regular Slide Hammer	10.3 lb	\$
400.99	5/8in Threaded Regular Slide Hammer	10.3 lb	\$



## Multi-Stage Core Sampler

The multi-stage core sampler allows you to collect approximately 2in-diameter relatively undisturbed soil core samples of up to 48in deep when optional 12in multi-stage extension sections are attached. The multi-stage sampler includes a base section, solid cap, core tip, auger tip, universal slip wrench, 2in x 12in plastic liner, and two plastic end caps. This sampler has a diameter of 2 3/8in and accepts a 2in 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.



#403.27

### 5/8in Threaded, Multi-Stage Core Sampler

Part#	Diameter	Length	Item	Weight	Price
403.27	2 3/8in	12in	Multi-Stage Core Sampler	9.2 lb.	\$

### Multi-Stage Core Sampler Replacement Parts

Part#	Diameter	Length	Item	Weight	Price
403.22			Multi-Stage Solid Cap	SST	1.3 lb. \$
403.24	2in	12in	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	2in	12in	Plastic Liner		0.2 lb. \$
418.10	2in		Plastic End Caps		0.1 lb. \$
421.29			Universal Slip Wrench		1.3 lb. \$

### Multi-Stage Core Sampler Accessories

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

## 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

## Multi-Stage Valved Core & Auger Tips



#403.28

#403.29

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 44-45 for details.



## Split-Core Samplers

Split-core samplers are now available with 3/4in connections as part of the new Professional Sampling Kit (page 33)! 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 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 (right). Sampler ODs are 1/2in larger than liner sizes.



#403.40

**Split-core samplers are now available with 3/4in connections as part of the new Professional Sampling Kit (page 33).**

## Split-Core Coupling

This coupling allows you to thread cup sets together.



#403.73

## Split-Core Coupling

Part#	Diameter	Weight	Price
403.602	1 3/8in	0.3 lb.	\$
403.73	2in	0.3 lb.	\$
403.72	2 1/2in	0.4 lb.	\$

## Valved Core Tips & Auger Tips

AMS split-core sampler valved tips provide an efficient, affordable sludge sampling option.



#403.74

#403.752

## Split-Core Valved Core Tips

Part#	Diameter	Weight	Price
403.756	1 3/8in	0.8 lb.	\$
403.74	2in	1.0 lb.	\$
403.75	2 1/2in	1.2 lb.	\$

## Split-Core Valved Auger Tips

Part#	Diameter	Weight	Price
403.758	1 3/8in	1.0 lb.	\$
403.752	2in	1.3 lb.	\$
403.754	2 1/2in	1.7 lb.	\$

## Signature Series, Split-Core Samplers with Core Tips

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

## 5/8in Threaded, Split-Core Samplers with Core Tips

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

## Signature Series, Split-Core Samplers with Auger Tips

Part#	Diameter	Length	Material	Weight	Price
355.23	2 1/2in	12in	SST	11.0 lb.	\$
355.13	2 1/2in	6in	SST	7.3 lb.	\$
355.22	2in	12in	SST	9.5 lb.	\$
355.12	2in	6in	SST	6.0 lb.	\$
355.21	1 3/8in	12in	SST	7.5 lb.	\$
355.11	1 3/8in	6in	SST	4.0 lb.	\$

## 5/8in Threaded, Split-Core Samplers with Auger Tips

Part#	Diameter	Length	Material	Weight	Price
403.57	2 1/2in	6in	SST	7.3 lb.	\$
403.59	2 1/2in	12in	SST	11.0 lb.	\$
403.53	2in	6in	SST	6.0 lb.	\$
403.55	2in	12in	SST	9.5 lb.	\$
403.593	1 3/8in	6in	SST	4.0 lb.	\$
403.594	1 3/8in	12in	SST	7.5 lb.	\$

## Signature Series, Split-Core Samplers with Core & Auger Tips

Part#	Diameter	Length	Material	Weight	Price
355.63	2 1/2in	12in	SST	12.0 lb.	\$
355.53	2 1/2in	6in	SST	8.0 lb.	\$
355.62	2in	12in	SST	10.5 lb.	\$
355.52	2in	6in	SST	7.0 lb.	\$
355.61	1 3/8in	12in	SST	8.0 lb.	\$
355.51	1 3/8in	6in	SST	5.0 lb.	\$

## 5/8in Threaded, Split-Core Samplers with Core & Auger Tips

Part#	Diameter	Length	Material	Weight	Price
403.65	2 1/2in	6in	SST	8.0 lb.	\$
403.67	2 1/2in	12in	SST	12.0 lb.	\$
403.61	2in	6in	SST	7.0 lb.	\$
403.63	2in	12in	SST	10.5 lb.	\$
403.595	1 3/8in	6in	SST	5.0 lb.	\$
403.596	1 3/8in	12in	SST	8.0 lb.	\$

## Split-Core Sampler Cup Sets

Part#	Diameter	Length	Material	Weight	Price
403.46	2 1/2in	6in	SST	3.0 lb	\$
403.44	2in	6in	SST	2.5 lb	\$
403.597	1 3/8in	6in	SST	1.9 lb	\$
403.47	2 1/2in	12in	SST	5.7 lb	\$
403.45	2in	12in	SST	5.1 lb	\$
403.598	1 3/8in	12in	SST	4.0 lb	\$



#355.02



#403.48



#402.35

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

## Signature Series, Split-Core Sampler Caps

Part#	Diameter	Material	Weight	Price
355.03	2 1/2in	SST	0.4 lb	\$
355.02	2in	SST	0.3 lb	\$
355.01	1 3/8in	SST	0.3 lb	\$

## 5/8in Threaded, Split-Core Sampler Caps

Part#	Diameter	Material	Weight	Price
403.49	2 1/2in	SST	1.3 lb	\$
403.48	2in	SST	1.0 lb	\$
403.599	1 3/8in	SST	0.7 lb	\$

## NEW! 3/4in Threaded, Split-Core Sampler Caps

Part#	Diameter	Material	Weight	Price
402.35	2in	SST	1.0 lb	\$
402.34	1 3/8in	SST	0.7 lb	\$

See the new professional kit, page 33!

## Split-Core Sampler Core Tips

Part#	Diameter	Material	Weight	Price
403.51	2 1/2in	SST	0.7 lb	\$
403.50	2in	SST	0.6 lb	\$
403.601	1 3/8in	SST	0.5 lb	\$

## Split-Core Sampler Auger Tips

Part#	Diameter	Material	Weight	Price
403.71	2 1/2in	SST	1.0 lb	\$
403.69	2in	SST	0.7 lb	\$
403.60	1 3/8in	SST	0.5 lb	\$





#425.67

*Soil sample collected using the replaceable-tip dual-purpose soil probe with the optional regular slide hammer. (See page 23).*

## 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 5/8in threaded connections and may be used with AMS 5/8in threaded extensions, cross handles, and slide hammers.
- A 10in 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.



#425.67

**Step options are available. See page 21.**



## Hammer-Head Cross Handles, and Slide Hammers

AMS soil probes use a 5/8in threaded connection type, and all AMS soil probes come with a 10in 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 all-purpose, impact-absorbing dead blow hammer, the user can penetrate harder soils than by manually pushing on the probe. See page 54 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 54.



**Push or hammer the handle to achieve your desired depth.**

### 5/8in Threaded, Hammer-Head Handles

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



**Ease strain on your body during the collection and retrieval with an AMS slide hammer.**

### 5/8in Threaded, Slide Hammers

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

## AMS Soil Ejector Scoops

The heads of these ejectors fit inside of the slots in 7/8in and 1 1/8in 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.



**Easily remove soil from 7/8in and 1 1/8in soil probes.**

### Soil Ejector Scoops

Part#	Diameter	Length	Weight	Price
56760	7/8in	13in	1.0 lb.	\$
56761	1 1/8in	13in	1.0 lb.	\$

## AMS Soil Ejectors

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.



**Use with 7/8in soil probes to remove the soil from your probe.**

### Soil Ejector Scoops

Part#	Diameter	Length	Weight	Price
402.01	7/8in	21in	0.3 lb.	\$
402.02	7/8in	33in	0.4 lb.	\$

## 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 3/4in liners are used with 7/8in soil probes. 1in liners are used with 1 1/8in and 1 1/4in soil probes.

### Plastic Liners

Part#	Diameter	Length	Weight	Price
425.07	3/4in	12in	0.1 lb.	\$
425.09	3/4in	24in	0.1 lb.	\$
425.02	1in	12in	0.1 lb.	\$
425.04	1in	24in	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 Caps

Part#	Diameter	Weight	Price
425.22	3/4in	0.1 lb.	\$
425.18	1in	0.1 lb.	\$

## Reach-&Grab Removal System

A specially threaded top cap allows the liner to protrude 1 3/4in from the top of the probe body for easy removal without handling or disturbing the sample. The Reach-&Grab removal system helps improve the integrity of your samples.



## AMS Soil Plungers

Plungers help remove stuck liners from AMS soil probes.



### Soil Plungers

Part#	Diameter	Length	Weight	Price
402.21	7/8in	33in	1.1 lb.	\$
402.22	1 1/8in	33in	1.1 lb.	\$



## 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 10in rubber-gripped handle. The same handle is welded to the one-piece model. Both step probes have an outer diameter of 7/8in and cut a 1/2in x 12in soil core. They are constructed of nickel-plated chromoly, and have heat-treated tips.



**Stay a Step Ahead!**  
Use a built-in step or a removable, adjustable footstep to collect soil samples in just one easy step.

### One-Piece Step Probe

Part#	Dia.	Length	Item	Material	Weight	Price
401.42	7/8in	40in	One-Piece Step Probe	Plated	1.9 lb.	\$

### 5/8in Threaded, Step Probe

Part#	Dia.	Length	Item	Material	Weight	Price
401.40	7/8in	33in	Step Probe w/ Handle	Plated	2.5 lb.	\$

## Adjustable Footstep

The adjustable footstep is compatible with any 7/8in soil probe, 5/8in threaded extensions, and the 1in x 36in 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 zinc-plated steel.



This adjustable footstep (#424.58) is being used with an AMS 1/7in x 33in regular plated soil probe (#401.01). See page 22.

### Adjustable Footstep

Part#	Item	Material	Weight	Price
424.58	7/8in Adjustable Footstep	Plated	2.0 lb.	\$
424.59	1in Adjustable Footstep	Plated	2.0 lb.	\$

\*Compatible with regular soil probes, soil recovery probes, dual-purpose soil recovery probes, and 1in replaceable-tip regular soil probes.

\*Note: The adjustable footstep does not fit AMS gas vapor probe or tile probe extensions.

## AMS Soil Probes

#401.14



### 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 10in 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.

#### 5/8in Threaded, Regular Soil Probes

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

#### 5/8in Threaded, Regular Soil Probes with Regular Slide Hammer

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

#### 5/8in Threaded, Hammer Options

Part#	Item	Weight	Price
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.	\$

#424.41



### 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, corrosion-resistant 10in cross handle with rubber grips. They are compatible with 5/8in slide hammers and the AMS hammer-head cross handle. They are made of nickel-plated chromoly or stainless steel. The liners used are 1/8in smaller in diameter than the probe, and are 1 3/4in longer than the sampler length.

#### 5/8in Threaded, Soil Recovery Probes

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

#424.49



### 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 1/8in smaller in diameter and 1 3/4in longer than the probe dimensions. They include the probe body, top cap, plastic liner, two end caps, and a 10in cross handle. They are made of nickel-plated chromoly or stainless steel, and they are compatible with 5/8in slide hammers and hammer-head handles.

#### 5/8in Threaded, Dual-Purpose Soil Recovery Probes

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



#424.19

*This dual-purpose soil recovery probe was used with the optional compact slide hammer to collect a 12in soil core sample into a liner.*





#425.50

### Replaceable-Tip Regular Soil Probe

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

#### 5/8in Threaded, Replaceable-Tip Regular Soil Probe

Part#	Diameter	Length	Material	Weight	Price
425.50	1in	36in	Plated	4.1 lb.	\$



#425.47

### Replaceable-Tip Soil Recovery Probes

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

#### 5/8in Threaded, Replaceable-Tip Soil Recovery Probes

Part#	Diameter	Length	Material	Weight	Price
425.45	1 1/4in	12in	Plated	3.2 lb.	\$
425.47	1 1/4in	24in	Plated	4.5 lb.	\$



#425.67

### Replaceable-Tip Dual-Purpose Soil Recovery Probes

Replaceable-tip dual-purpose soil recovery probes include the probe body, top cap, 10in 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.

#### 5/8in Threaded, Replaceable-Tip Dual-Purpose Soil Recovery Probes

Part#	Diameter	Length	Material	Weight	Price
425.65	1 1/4in	12in	Plated	3.0 lb.	\$
425.67	1 1/4in	24in	Plated	4.3 lb.	\$

### 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 1in and 1 1/4in AMS replaceable-tip soil probes.



#### 1in Replaceable Soil Probe Tips

Part#	Diameter	Item	Weight	Price
425.74	1in	Standard Tip	0.1 lb.	\$
56803	1in	Oversized Tip	0.1 lb.	\$
56756	1in	Clay Tip	0.1 lb.	\$
56757	1in	Mud Tip	0.1 lb.	\$
56827	1in	Serrated Tip	0.1 lb.	\$

#### 1 1/4in Replaceable Soil Probe Tips

Part#	Diameter	Item	Weight	Price
425.76	1 1/4in	Standard Tip	0.2 lb.	\$
56801	1 1/4in	Oversized Tip	0.2 lb.	\$
56796	1 1/4in	Clay Tip	0.2 lb.	\$
56797	1 1/4in	Mud Tip	0.2 lb.	\$
56826	1 1/4in	Serrated Tip	0.2 lb.	\$



#### Spanner Wrench

Use the spanner wrench to tighten or remove 1in and 1 1/4in soil probe tips.

Part#	Item	Weight	Price
425.77	Spanner Wrench	0.2 lb.	\$

## Sand & Sediment Probe

The sand & sediment probe is capable of recovering high-quality core samples in a variety of materials including dry sand, loose sediment, and sludge that has settled in drums and tanks. It has a heat-treated, replaceable core tip that is bored out to accept a 1in core catcher and 1in x 24in plastic liner. The minimized gap between the tip and body of the sampler results in a more representative core. The core catcher helps ensure full sample recovery. This probe includes a 1 1/4in x 24in probe body, 10in handle, replaceable tip, 1in core catcher, 1in x 24in plastic liner, two 1in plastic end caps and spanner wrench. Extensions can be added for sampling at deeper depths. The probe and tip are made of nickel-plated chromoly. For more information see page 46.

### 5/8in Threaded, Sand & Sediment Probe

Part#	Diameter	Length	Item	Weight	Price
424.37	1 1/4in	24in	Sand & Sediment Probe Complete	4.4 lb.	\$

## Replacement Parts & Accessories

Part#	Diameter	Item	Weight	Price
56799	1 5/8in	Replaceable Sand & Sediment Probe Tip	0.5 lb.	\$
400.96		5/8in Threaded, Compact Slide Hammer	7.5 lb.	\$
400.99		5/8in Threaded, Regular Slide Hammer	10.3 lb.	\$

## Expendables

Part#	Diameter	Length	Item	Weight	Price
425.04	1in	24in	Plastic Liner	0.2 lb.	\$
425.18	1in		Plastic End Cap	0.1 lb.	\$
425.018	1in		Plastic Core Catcher	0.1 lb.	\$
5004.89			O-Ring	0.1 lb.	\$

## Open-End Probes

Open-end probes collect shallow soil samples (1in x 15in). They are primarily used for agricultural applications. The probe body is made from nickel-plated chromoly. The 15in slot in the probe is cut to the end of the probe body to facilitate emptying of the sample. It includes a 10in handle.



**Open tip  
for faster  
and easier  
removal  
of soil**

### 5/8in Threaded, Open-End Probes

Part#	Diameter	Length	Material	Weight	Price
401.10	1 1/8in	33in	Plated	2.1 lb.	\$
401.21	7/8in	33in	Plated	4.1 lb.	\$



## Turf Profiler

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 1/2in wide, 1in thick, and 7in 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.

### Turf Profiler

Part#	Item	Material	Weight	Price
427.75	Turf Profiler	SST	4.1 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 10in rubber-gripped handle. It has been designed to collect a small 1/2in x 7in soil sample from turf, sod, or grassed areas.

### Turf Probe

Part#	Diameter	Length	Weight	Price
427.24	1/2in	20in	1.00 lb.	\$

**Heat-treated oversized  
tip minimizes sidewall  
friction and prevents  
soil compaction inside  
of the sampler.**



## 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 43in probe has an auger tip and depth markings at 1ft, 2ft and 3ft from the tip. The probe is pushed into the soil using the attached 10in 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.

### Brown Moisture Probe

Part#	Length	Weight	Price
402.95	42in	2.8 lb.	\$

## Tile Probes

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 48in fiberglass tile probe features a built-in, rubber-gripped 9in fiberglass handle. It has a 5/8in-diameter pointed steel tip that is 1 3/4in 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 10in rubber-gripped cross handle. The two-piece probe includes a detachable handle and a 3/8in 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 3/8in steel rods.

AMS extendable tile probes are available in 7/16in or 5/8in diameters with 3ft or 4ft 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 10in 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 54 for details.

### Tile Probes

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

### Extendable Tile Probe Replacement Parts

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

#401.26

#403.12

#403.08 or #403.11

#427.20

#403.13

#403.10 or 403.09

#402.93

#403.02

#402.97

The ball tip keeps a sample in the auger bit during retrieval

Extendable tile probe tips are easily replaceable.

Ball tips won't penetrate obstacles under the ground.

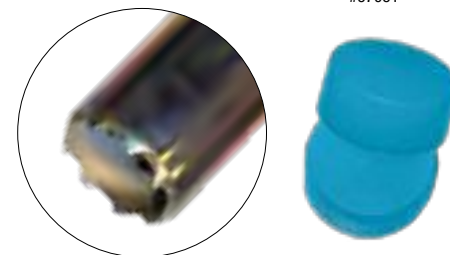
Pointed steel tips on fiberglass tile probes measures 5/8in x 1 3/4in.

## Hay & Forage Probe

Hay & forage probes are ideal for obtaining 12in or 24in representative core samples for quick visual inspection and laboratory analysis. They use a 7/8in 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, 1/2in 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, 3in x 12in (1 liter) plastic liner, and two 3in 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. The top and bottom caps are made of aluminium. Both models require a 1/2in-chuck drill (24V recommended).



### 5/8in Threaded Hay Probe

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

### Replacement Parts & Accessories

Part#	Item	Weight	Price
213.50	1/2in 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	3in x 12in Plastic Liner	0.4 lb.	\$
418.09	3in Liner End Cap	0.1 lb.	\$

**#57051**

**Collects hay and forage into a plastic liner.**

**The plastic liner can hold up to 20 samples**





#209.56

*Collect core samples into liners from discrete depths using the Environmental Soil Sampling Kit. See page 31 for more information.*

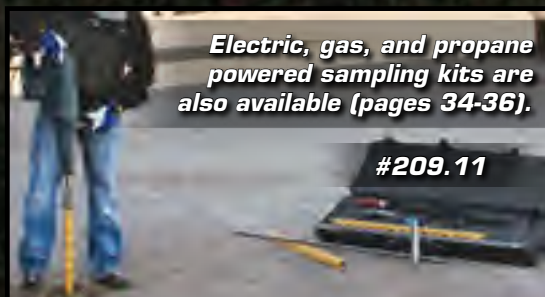
## AMS Soil Auger & Sampling Kits

*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 1 information on AMS connection types, and pages 54-59 for accessories.*



*Electric, gas, and propane powered sampling kits are also available (pages 34-36).*

#209.11



***ALL NEW** professional soil sampling kits feature special 3/4" threaded augers, split-core samplers, and extensions. See page 33.*



## Soil Auger Kits

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



### Signature Series, Soil Auger Kits

Part#	Diameter	Length	Material	Weight	Price
352.77	2 1/4in	3ft		12.0 lb.	\$
352.73	3 1/4in	3ft		14.0 lb.	\$
352.79	2 1/4in	4ft		12.0 lb.	\$
352.74	3 1/4in	4ft		14.0 lb.	\$



### 5/8in Threaded, Soil Auger Kits

Part#	Diameter	Length	Material	Weight	Price
209.73	2 1/4in	3ft		11.0 lb.	\$
209.33	2 1/4in	4ft		14.0 lb.	\$
209.71	3 1/4in	3ft		14.0 lb.	\$
209.31	3 1/4in	4ft		14.0 lb.	\$
209.74	2 1/4in	3ft	SST	11.0 lb.	\$
209.34	2 1/4in	4ft	SST	14.0 lb.	\$
209.72	3 1/4in	3ft	SST	14.0 lb.	\$
209.32	3 1/4in	4ft	SST	17.0 lb.	\$



### Quick Connect, Soil Auger Kits

Part#	Diameter	Length	Material	Weight	Price
209.78	2 1/4in	3ft		19.0 lb.	\$
209.38	2 1/4in	4ft		22.0 lb.	\$
209.76	3 1/4in	3ft		19.0 lb.	\$
209.36	3 1/4in	4ft		22.0 lb.	\$
209.79	2 1/4in	3ft	SST	19.0 lb.	\$
209.39	2 1/4in	4ft	SST	19.0 lb.	\$
209.77	3 1/4in	3ft	SST	19.0 lb.	\$
209.37	3 1/4in	4ft	SST	22.0 lb.	\$





## Core Sampling Kits

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



#209.07

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

## 5/8in Threaded, Core & Split-Core Sampling Kits

Part#	Diameter	Length	Item	Material	Weight	Price
209.07	3 1/4in	3ft	Core Sampling Kit		32.5 lb.	\$
209.05	3 1/4in	3ft	Split-Core Sampling Kit	SST	32.5 lb.	\$

## Signature Series, Core & Split-Core Sampling Kits

Part#	Diameter	Length	Item	Material	Weight	Price
352.54	3 1/4in	3ft	Core Sampling Kit		32.5 lb.	\$
352.55	3 1/4in	3ft	Split-Core Sampling Kit		32.5 lb.	\$

## Soil Core & Split-Core Sampling Kits Replacement Parts

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

## Split-Core Sampling Kits

AMS split-core sampling kits provide everything you need to auger to 12ft and collect a virtually undisturbed soil core sample into the split-core sampler body or into a liner. The kits utilize 5/8in 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 1/4in regular auger, four 3ft extensions, 18in rubber-coated handle, regular slide hammer, 2in x 6in split-core sampler, 2in x 6in plastic liner, two end caps, two crescent wrenches, universal slip wrench, and poly-canvas carrying case. See page 4 for information on 3 1/4in regular and SST soil auger heads, page 18 for more information on split-core samplers, and pages 54-55 for information about AMS handles, extensions, and slide hammers.



#209.05

#352.55



#403.40

**Split-core sampling kits allow for immediate examination of your collected soil sample.**

## Basic Soil Sampling Kits

AMS basic sampling kits provide everything you'll need to auger to a target depth as deep as 12ft 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 5/8in threaded components, and with either 2 1/4in or 3 1/4in augers. Each kit comes with a regular, mud, and sand auger. The kits also include three 4ft extensions, 18in rubber-coated cross handle, regular slide hammer, core sampler (1 1/2in x 6in or 2in x 6in), plastic liner, two plastic end caps, cleaning brush, universal slip wrench, and two crescent wrenches.

All the components fit securely in a foam-lined, poly-reinforced AMS deluxe carrying case with handles and wheels for added portability.



**Everything you need to collect soil core samples to depths of 12ft using augers and core samplers with 5/8in threaded or signature series connections.**



#352.51

### Signature Series, Basic Soil Sampling Kits

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

### Signature Series, Basic Soil Sampling Kits Replacement Parts and Accessories

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



#209.51

### 5/8in Threaded, Basic Soil Sampling Kits

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

### 5/8in Threaded, Basic Soil Sampling Kits Replacement Parts and Accessories

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





#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 1/4in and 3 1/4in. They are fitted with 5/8in threaded connections, and each kit includes SST regular, sand, and mud augers (2 1/4in or 3 1/4in), 18in rubber-coated handle, three 4ft SST extensions, regular slide hammer, SST split-core sampler (1 3/8in x 6in or 2in x 6in) with core tip, plastic liner, plastic end caps, wrenches, and a cleaning brush. All of the components fit in the included deluxe carrying case that has handles and wheels. The deluxe options also include 25 plastic liners, 50 end caps, 50 fluoropolymer swatches for sample preparation, and an AMS #2 SST scoop.



#209.55

## 5/8in Threaded, Environmental Soil Sampling Kits

Part#	Diameter	Item	Material	Weight	Price
209.57	2 1/4in	Environmental Soil Sampling Kit	SST	58.0 lb.	\$
209.55	3 1/4in	Environmental Soil Sampling Kit	SST	62.0 lb.	\$
209.58	2 1/4in	Deluxe Environmental Soil Sampling Kit	SST	68.0 lb.	\$
209.56	3 1/4in	Deluxe Environmental Soil Sampling Kit	SST	72.0 lb.	\$

## 5/8in Threaded, Environmental Soil Sampling Kits Replacement Parts and Accessories

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

## AMS Soil Auger & Sampling Kits



#424.38

## Soil Classification Kit

The signature series soil classification kit was assembled for in situ soil investigations to depths of 12ft. This ergonomic, user-friendly kit was built with operator comfort and efficiency in mind. The kit uses the AMS signature series thread pattern, which allows for quick and easy connection and disconnection with only 2 1/2 turns. The kit comes with 2 3/4in regular and mud augers, as well as a 2 1/2in open-face auger and cleanout tool. The kit also includes a 10 lb. regular slide hammer, 18in ratcheting cross handle, 2in x 6in split-core sampler, and three gold-zinc plated 4ft extensions knurled in 1ft intervals. It also comes with the Munsell® soil color binder with chart, stainless steel cleaning brush, work gloves, two 12in crescent wrenches, universal slip wrench, fluoropolymer tape (for threads), and an extendable tile probe – which is crucial for locating underground obstructions such as storage tanks or electrical cables. All of this is packaged into a poly-reinforced deluxe carrying case with foam padding, wheels, and handles.



#424.38

## Signature Series, Soil Classification Kit

Part#	Item	Weight	Price
424.38	Signature Series Soil Classification Kit	66.0 lb.	\$

## Sig. Series, Soil Classification Kit Replacement Parts

Part#	Diameter	Length	Item	Weight	Price
350.07	2 3/4in		Sig. Regular Auger	2.1 lb.	\$
350.19	2 3/4in		Sig. Mud Auger	1.9 lb.	\$
400.57	2 1/2in		Sig. Open Faced Auger	1.3 lb.	\$
351.03		4ft	Sig. Extension	1.7 lb.	\$
351.56		18in	Sig. Ratcheting Cross Handle	2.4 lb.	\$
350.99			Sig. Regular Slide Hammer	10.3 lb.	\$
355.32	2in	6in	Split-Core Sampler with Core Tip	6.0 lb.	\$
403.10	5/8in	3ft	5/8in Thread Extendable Tile Probe Complete w/ 5/8in Cross Handle	3.3 lb.	\$
404.21	2in	6in	Plastic Liner	0.2 lb.	\$
418.10	2in		Plastic End Cap	0.1 lb.	\$
421.10		12in	Crescent Wrench	1.7 lb.	\$
421.29			Universal Slip Wrench	1.3 lb.	\$
430.17	2in	12in	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.	\$

## 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 (1in x 14in or 1 1/4in x 14in), 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 10in cross handle, 2ft extension, adjustable foot step, soil ejector scoop (7/8in or 1 1/8in), cleaning brush (3/4in x 12in or 1 1/2in x 12in), spanner wrench, triple-lead flighted auger (1 1/4in x 18in or 1 1/2in x 18in), compact carrying case and either the AMS compact slide hammer or hammer-head cross handle. Plastic liners and end caps are included with 1 1/4in kits, but are not used with 1in kits. In soft, moist, or tilled soils, use the 10in 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.



#424.34

### 5/8in Threaded, Soil Fertility Slide Hammer Kits

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



#424.33

### 5/8in Threaded, Soil Fertility Hammer-Head Kits

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



#424.33



#424.34

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

### 5/8in Threaded, Soil Fertility Kits Replacement Parts

Part#	Diameter	Length	Item	Weight	Price
424.62			AMS Small Carrying Case	5.7 lb.	\$
401.26		10in	5/8in Thread Cross Handle w/ Grips	0.9 lb.	\$
400.96			5/8in Thread Compact Slide Hammer	7.7 lb.	\$
401.27		12in	5/8in Thread Hammer-Head Handle	4.3 lb.	\$
11677			Dead Blow Hammer (37 oz.)	2.4 lb.	\$
408.01		2ft	5/8in Thread Extension	1.2 lb.	\$
424.60	1 1/4in	18in	Triple-Lead Flighted Auger	2.0 lb.	\$
424.61	1 1/2in	18in	Triple-Lead Flighted Auger	2.0 lb.	\$
430.11	1 1/2in	12in	Nylon Brush	0.1 lb.	\$
1002.10	3/4in	12in	Nylon Brush (Tapered)	0.1 lb.	\$
424.58			Adjustable Foot Step	2.0 lb.	\$
56975	1in		5/8in Thread Soil Fertility Probe	1.3 lb.	\$
56994	1 1/4in		5/8in Thread Soil Fertility Probe	1.9 lb.	\$
56803	1in		Reg. Oversized Replacement Tip	0.1 lb.	\$
56756	1in		Clay Replacement Tip	0.1 lb.	\$
56757	1in		Mud Replacement Tip	0.1 lb.	\$
56827	1in		Serrated Replacement Tip	0.1 lb.	\$
56801	1 1/4in		Reg. Oversized Replacement Tip	0.2 lb.	\$
56796	1 1/4in		Clay Replacement Tip	0.2 lb.	\$
56797	1 1/4in		Mud Replacement Tip	0.2 lb.	\$
56826	1 1/4in		Serrated Replacement Tip	0.2 lb.	\$
56760	7/8in		Soil Ejector Scoop	1.0 lb.	\$
56761	1 1/8in		Soil Ejector Scoop	1.0 lb.	\$
425.77			Spanner Wrench	0.1 lb.	\$
425.03	1in	18in	Plastic Liner	0.1 lb.	\$
425.18	1in		Plastic End Cap	0.1 lb.	\$



## NEW! Professional Soil Sampling Kits

This kit is designed for soil sampling professionals who want the strongest, most durable connection on all of their new and improved 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 3/4in threaded professional regular auger and mud auger (2 1/4in or 3 1/4in), as well as three 4ft extensions, 18in rubber-coated cross handle, 10 lb. slide hammer, split-core sampler (2in x 6in or 1 3/8in x 6in), 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 3/4in 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 3/4in threaded extensions are constructed of a larger 1in 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 3/4in-diameter inner slide bar that makes it more reliable and prevents bending of the bar. The new split-core sampler caps include a thicker (.800in) top cap than our standard split-core samplers. The thicker top cap is designed to match up with the larger 3/4in 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 dimensions are based on the OD of their liner. The OD of the sampler can be up to 1/2in larger. The AMS 3/4in connection may also be added to core samplers as well as other components for only \$25.

See page 4 for details about AMS professional augers, and see pages 54-55 for information on the professional series slide hammer and extensions. Contact AMS customer service for more information.

### 3/4in Threaded, Professional Soil Sampling Kits

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

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

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



#402.24



#402.24

**Professional sampling kits feature the new pro series regular auger, mud auger, slide hammer, extensions, and split-core sampler. Their 3/4in thread offers more durability – especially when augering or hammering in difficult lithologies.**

## AMS Soil Auger & Sampling Kits



#209.63

### Flighted Auger Kits

AMS 2in flighted auger kits are equipped to drill access holes up to 9ft and collect soil samples into liners using the 1 1/2in x 6in core sampler. They include 5/8in threaded male to SDS-Max adapter, 1 1/2in x 6in core sampler, slide hammer, 2in flighted lead auger with hard surfaced tip, 2in carbide tip, two 2in x 3ft flighted extensions, three 5/8in x 4ft extensions, universal slip wrench, 1 1/2in x 12in 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.

### 5/8in Threaded, Flighted Auger Kits

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

### Flighted Auger Kits Replacement Parts & Accessories

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



#209.11

### Quick Connect Flighted Auger Kit

This AMS kit allows users to quickly achieve depths of 9ft 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 2in x 36in quick connect auger, 2 1/2in lead bit, 5/8in threaded female to quick connect female adapter, 5/8in threaded male to SDS-Max drill adapter, three 5/8in x 4ft extensions, 1 1/2in x 6in core sampler, 5/8in regular slide hammer, quick connect rubber-coated handle, 1 1/2in x 12in nylon brush, universal slip wrench, and an AMS deluxe carrying case.

### Quick Connect, Flighted Auger Kit

Part#	Diameter	Length	Item	Weight	Price
209.11	2in	36in	QC Flighted Auger Kit	72.0 lb.	\$
209.12	2in	36in	QC Flighted Auger Kit with Bosch 11245 Drill	109 lb.	\$

### QC Flighted Auger Kit Replacement Parts and Accessories

Part#	Diameter	Length	Item	Weight	Price
20045	2in	36in	QC Flighted Auger	9.5 lb.	\$
306.06		18in	QC Rubber-Coated Cross Handle	1.1 lb.	\$
408.03	5/8in	4ft	5/8in Thread Extension	2.3 lb.	\$
404.38	1 1/2in	6in	5/8in Core Sampler Cup & Cap	2.1 lb.	\$
400.99			5/8in Thread Regular Slide Hammer	8.0 lb.	\$
53265			5/8in Thread Female to QC Female Adapter	0.7 lb.	\$
214.20			5/8in Thread Male to SDS-Max Drill Adapter	0.8 lb.	\$
213.88			Bosch 11245 Electric Rotary Hammer Drill	37.0 lb.	\$
430.11	1 1/2in	12in	Nylon Brush	0.2 lb.	\$
20046	2 1/2in		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.	\$
EXPENDABLES					
405.08	1 1/2in	6in	Plastic Liners	0.1 lb.	\$
418.08	1 1/2in		Plastic End Caps	0.1 lb.	\$



#209.11

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



## Hollowstem Lead Auger Section

This complete dual-tube hollowstem lead auger is capable of creating a cased borehole to a depth of 3ft. The lead auger section includes an SDS-Max adapter, 3ft 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 1in x 24in hollowstem soil recovery probe body, a 5/8in threaded top cap, 3/4in x 24in plastic liner, and two 3/4in end caps.



## Hollowstem Auger Kits

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

The hollowstem soil recovery probe (left) may also be used through the augers to collect samples into a liner. Gas vapor probes (pages 37-42) and bailers (page 49) up to 1in in diameter may also be used through AMS hollowstem augers.

## 5/8in Threaded, Hollowstem Auger Kits

Part#	Item	Weight	Price
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	1in x 24in Hollowstem Soil Recovery Probe	1.6 lb.	\$

## Hollowstem Auger Kit Replacement Parts & Accessories

Part#	Diameter	Length	Item	Weight	Price
409.55			Hollowstem Lead Auger Section	14.0 lb.	\$
409.72	1in	24in	Hollowstem Soil Recovery Probe	1.6 lb.	\$
409.51	3ft	3ft	Hollowstem Flighted Extension	9.2 lb.	\$
409.60	3ft	3ft	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	7/8in	24in	Hollowstem Soil Probe	1.1 lb.	\$
425.74	1in		Hollowstem Soil Probe Replacement Tip	0.2 lb.	\$
213.88			Bosch 11245 Electric Rotary Hammer Drill	37.0 lb.	\$
214.20			5/8in Thread Male to SDS-Max Adapter	0.7 lb.	\$
400.99			5/8in Regular Slide Hammer	10.2 lb.	\$
421.10			12in Crescent Wrench	1.7 lb.	\$
14327			12in Pipe Wrench	2.5 lb.	\$
430.01			AMS Deluxe Carrying Case 1750	29.0 lb.	\$
425.09	3/4in	24in	Plastic Liner	0.1 lb.	\$
425.22	3/4in		Plastic End Caps	0.1 lb.	\$



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

## Propane Hammer & Dual-Tube Sampling System

This dual-tube sampling system uses a self-contained propane hammer that is powered by a standard 14.1 oz. propane tank, found in most hardware departments. The hammer provides a convenient, user-friendly way to drive samplers into hard, dry, frozen, and even rocky ground. It weighs 45 lbs. and delivers up to 150 blows per minute with approximately 700 lbs. of driving force. The self-centering, shock-absorbing handles reduce vibration – making the hammer simple to use and easy for just one person to operate. The propane hammer includes a wooden crate, manual, instructional DVD, and pressure gauge.

The 2 1/8in dual-tube sampling system that is used with the propane hammer provides all of the tooling needed to reach 12ft. They are typically used to collect undisturbed, continuous samples through a cased borehole, or to install small-diameter monitoring wells through the tool string.

The items in this kit are listed in the replacement parts table (below).

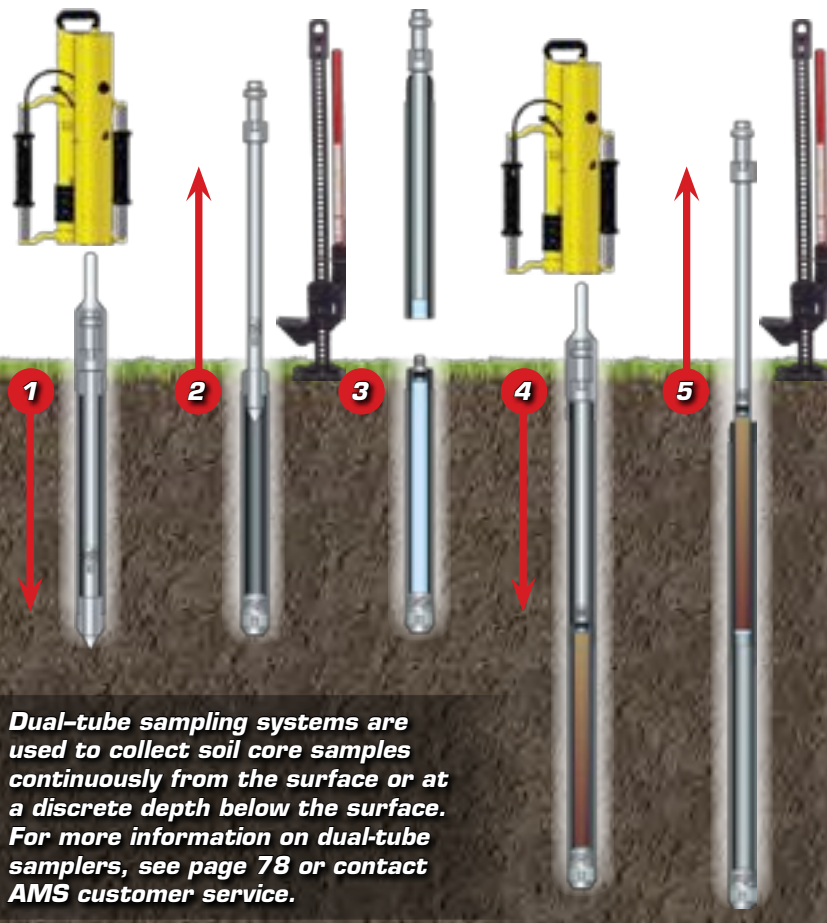
The 2 1/8in dual-tube system is also used with AMS PowerProbe™ direct push machines. For more information on AMS PowerProbes™ and dual-tube sampling equipment, see pages 64 and 78, respectively. If you need more information, please contact AMS customer service.

### Dual-Tube Sampling Application:

AMS dual-tube sampling systems are used to collect soil core samples continuously from the surface or from a discrete depth below the surface.

- 1) Assemble your internal and external extensions, drive tip, and drive head adapter. Use the propane hammer to hammer on the drive head adapter until your sampler reaches the desired sampling depth.
- 2) Remove external drive head, and pull out the internal extension(s) and internal drive tip using the thread protector pull cap and removal jack.
- 3) Add a liner, liner grabber, internal and external extensions, thread-protector pull cap, and drive head to the sampler.
- 4) Hammer the sampling system to the same length as the liner.
- 5) Remove the internal extension and the liner containing your sample.

For continuous sampling, repeat steps 3 through 5 to the desired depth using the external drive tip with liner. Use the liner grabber to hold the liner while attaching it to the internal extension.



**Dual-tube sampling systems are used to collect soil core samples continuously from the surface or at a discrete depth below the surface. For more information on dual-tube samplers, see page 78 or contact AMS customer service.**



**Use a propane hammer with dual-tube tooling to drive samplers into hard, dry, frozen, or rocky ground. For more on dual-tube sampling, see pages 78-81.**

### Propane Hammer & Dual-Tube Sampling Systems

Part#	Item	Weight	Price
210.10	Special Propane Hammer C3H8	45.0 lb.	\$
213.93	2 1/8in x 12ft Dual-Tube Sampling Kit	163.3 lb.	\$

### AMS 2 1/8in x 12ft Dual-Tube Sampling Kit Replacement Parts and Accessories

Part#	Item	Weight	Price	213.93
5006.50	2 1/8in Drivehead	4.5 lb.	\$	1
5006.04	2 1/8in x 4ft Direct Push Extension	19.9 lb.	\$	2
5006.02	2 1/8in x 2ft Direct Push Extension	9.9 lb.	\$	2
5004.02	1 1/8in x 2ft Direct Push Extension	6.0 lb.	\$	2
5004.00	1 1/8in x 4ft Direct Push Extension	12.0 lb.	\$	2
5006.07	2 1/8in External Drive Tip (regular)	1.8 lb.	\$	1
5006.11	Internatl Drive Tip (regular/CC)	1.1 lb.	\$	1
5006.52	1 1/2in x 1 1/8in Liner Grabber	0.9 lb.	\$	2
5006.51	1 1/8in Thread Cap	0.6 lb.	\$	1
5006.423	1 1/2in x 24in PVC Liner(s)	0.5 lb.	\$	10
5006.425	1 1/2in x 48in PVC Liner(s)	0.7 lb.	\$	10
418.08	1 1/2in Plastic End Cap(s)	0.1 lb.	\$	40
18253	Big Foot Removal Jack	35.0 lb.	\$	1
5006.15	2 1/8in Pull Cap	2.0 lb.	\$	1
5004.05	1 1/8in Pull Cap	1.3 lb.	\$	1
5009.20	3/8in x 4ft Cleaning Rod	1.5 lb.	\$	1
5006.84	Tee Handle	0.8 lb.	\$	1
5009.05	Brush 1 1/8in to 1 1/4in	0.5 lb.	\$	1
5009.09	Brush 2 1/8in	0.8 lb.	\$	1
ACCESSORIES				
52124	2 1/8 (G3A) External Drive Tip (Sand/Clay Combo)	1.2 lb.	\$	-
52126	G3A Core Catcher Retainer Sleeve	0.5 lb.	\$	-
52649	G3A Sample Retainer Sleeve Set	0.5 lb.	\$	-
55439	G3A Retainer Sleeve Removal Tool	3.0 lb.	\$	-
52168	G3A Core Catcher Basket(wht) Soft	0.1 lb.	\$	-
400.86	30 Lb. Manual Slide Hammer	30.0 lb.	\$	-
55204	Special Drive Head Assembly 2 1/8 with 3/4-10 Male	4.5 lb.	\$	-





#209.16



#210.02

## AMS Soil Gas Sampling

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.



Remove your gas vapor probe rods using the AMS removal jack. See page 59.



## Gas Vapor Probe (GVP) Assembly & Installation

AMS GVP systems are equipped with two different styles of 5/8in 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 1/4in 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.

## 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 40-42.

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.



#210.01

## 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 40-42.



#55467

## Gas Vapor 6in Implant Drive Kit

The 6in 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 64 and 85, respectively). The kit includes a 6in gas vapor implant, 6in 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.



#211.00

Tip shown with optional SST screen.

## GVP Parts for Driving to Depth

Part#	Item	Weight	Price
403.10	5/8in x 3ft Extendable Tile Probe Complete (See page 25 for details)	3.3 lb.	\$
403.09	5/8in x 4ft Extendable Tile Probe Complete (See page 25 for details)	4.3 lb.	\$
401.26	10in Soil Probe Cross Handle	0.9 lb.	\$
403.12	5/8in NC Male to 5/8in NF Adapter	0.3 lb.	\$
403.08	5/8in NF 4ft Tile Probe Extension	4.2 lb.	\$
403.11	5/8in NF 3ft Tile Probe Extension	3.2 lb.	\$
427.20	5/8in NF Extendable Tile Probe Coupling	0.1 lb.	\$
403.13	5/8in NF Extendable Tile Probe Tip	0.2 lb.	\$
214.22	1 1/2in Concrete Bit SDS-Max	4.2 lb.	\$
214.26	2 1/2in Wild Bore SDS-Max	6.6 lb.	\$
405.27	5/8in NC Male to Splined Drill Adapter	0.6 lb.	\$
214.20	5/8in NC Male to SDS-Max Drill Adapter	0.8 lb.	\$
405.23	2in x 36in Flighted Lead Auger with 2in Hard Surfaced Tip	6.0 lb.	\$
405.24	2in x 36in Flighted Extension	5.8 lb.	\$
405.26	2in Carbide Tip	0.7 lb.	\$

## GVP Parts for Retrieving Sample(s)

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

## Dedicated Tip & Replacement Parts

Part#	Item	Weight	Price
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 & Replacement Parts

Part#	Item	Weight	Price
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 Implant Drive Kit & Replacement Parts

Part#	Item	Weight	Price
55467	6in Implant Drive Kit	1.0 lb.	\$
21010	6in Gas Vapor Implant	0.2 lb.	\$
55463	GVP 6in Drive End	0.8 lb.	\$
55466	Dedicated Dummy Tip	0.1 lb.	\$

## Rotary & Rotary Hammer Drills

Part#	Item	Weight	Price
213.88	Bosch 11245EVS Rotary Hammer	35.0 lb.	\$
213.92	DeWalt D25600K Rotary Hammer	25.0 lb.	\$

## GVP Accessories

Part#	Item	Weight	Price
211.05	Removal Jack	30.0 lb.	\$
211.06	Tee Jack Adapter	1.1 lb.	\$





## Driving to Depth



## Retrieving Sample(s)



## 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	Price
5004.47	#15 x 50ft Silicone Tubing	2.4 lb.	\$
5004.48	#15 x 500ft Silicone Tubing	26.9 lb.	\$
5004.53	#16 x 25ft Silicone Tubing	2.0 lb.	\$
214.98	3/16in ID x 1/4in OD x 50ft Fluoropolymer Tubing	1.1 lb.	\$
214.99	3/16in ID x 1/4in OD x 100ft Fluoropolymer Tubing	2.1 lb.	\$
215.00	3/16in ID x 1/4in OD x 250ft Fluoropolymer Tubing	5.1 lb.	\$
215.12	3/16in ID x 1/4in OD x 500ft Polyethylene Tubing		\$
215.03	1/4in ID x 3/8in OD x 50ft Fluoropolymer Tubing		\$
215.04	1/4in ID x 3/8in OD x 100ft 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 information about using AMS PowerProbe™ soil gas sampling systems, see pages 84-85.

## GVP Sample Collection Options

Part#	Item	Weight	Price
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.	\$

## 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 1/2in wild bore concrete bit, tip drive end, four 3ft GVP extensions, 3ft extendable tile probe complete, three 3ft tile probe extension, 3/4in ID external drive adapter, SDS-Max drill adapter, SDS-Max 1 1/2in carbide bit, slide hammer, handle/hammer adapter, hand pump, 3/16in ID x 1/4in OD x 250ft 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.



### Gas Vapor Probe Kits with Dedicated Tips

Part#	Item	Weight	Price
209.19	GVP Kit without drill	115.0 lb.	\$
210.00	GVP Kit with DeWalt D25600K Hammer Drill	150.0 lb.	\$
209.84	GVP Kit w/ Bosch 11245EVS Rotary Hammer Drill	152.0 lb.	\$

### Gas Vapor Probe Kits with Dedicated and Retract-A-Tip

Part#	Item	Weight	Price
209.16	GVP Kit without drill	116.0 lb.	\$
210.02	GVP Kit with DeWalt D25600K Hammer Drill	151.0 lb.	\$
209.86	GVP Kit with Bosch 11245EVS Hammer Drill	153.0 lb.	\$

### GVP Kit Replacement Parts

Part#	Item	Weight	Price
209.00	GVP Instruction DVD Video	1.0 lb.	\$
209.01	AMS GVP Manual	0.3 lb.	\$
211.00	Gas Vapor Tip & Umbrella	0.1 lb.	\$
211.05	Removal Jack	30.0 lb.	\$
214.045	Extension Drive Adapter to 3/4in ID	2.0 lb.	\$
214.05	5/8in NF 4ft Gas Vapor Probe Extension	2.4 lb.	\$
214.06	5/8in NF 3ft Gas Vapor Probe Extension	2.6 lb.	\$
214.09	5/8in NF Gas Vapor Probe Tip Drive End	0.2 lb.	\$
214.105	Slide Hammer Adapter to 3/4in OD	0.7 lb.	\$
214.18	SDS-Max Drill Adapter to 3/4in OD	0.8 lb.	\$
214.22	1 1/2in Concrete Bit SDS-Max	4.2 lb.	\$
215.00	3/16in ID x 1/4in OD x 250ft Fluoropolymer Tubing	5.1 lb.	\$
215.06	Hand Pump	1.6 lb.	\$
401.26	10in Cross Handle	0.9 lb.	\$
400.99	5/8in NC Regular Slide Hammer	10.3 lb.	\$
403.08	5/8in NF 4ft Tile Probe Extension	4.2 lb.	\$
403.10	5/8in x 3ft Extendable Tile Probe Complete (with tile probe, tile probe tip, 5/8in NC to 5/8in NF adapter, and 10in rubber-gripped handle)	3.3 lb.	\$
403.11	5/8in NF 3ft Tile Probe Extension	3.2 lb.	\$
403.13	5/8in NF Extendable Tile Probe Tip	0.2 lb.	\$
405.27	5/8in NC Male to Splined Drill Adapter	0.6 lb.	\$
427.20	5/8in NF Extendable Tile Probe Coupling	0.1 lb.	\$
430.01	AMS Deluxe Carrying Case 1750	29.0 lb.	\$

\*Note: GVP kits use both 5/8in national coarse (NC) and national fine (NF) threaded connections.

## Original Gas Vapor Probe

This system is excellent for shallow gas vapor sampling in easily penetrable soils for preliminary testing. The kit includes a 10in cross handle, 1/2in x 5/8in handle/hammer adapter, barbed adapter, 3ft 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 1/2in NF and 5/8in NC connections.

### Original Gas Vapor Probe Kit

Part#	Item	Weight	Price
427.01	Original Gas Vapor Probe Kit	3.8 lb.	\$

### Original GVP Kit Replacement Parts

Part#	Item	Weight	Price
401.26	5/8in Thread, 10in Cross Handle	0.9 lb.	\$
427.04	Original GVP Base Adapter (SST)	0.3 lb.	\$
427.06	Base Section w/ Liner Rod, Couplings & 1/2in to 5/8in Adapter	3.4 lb.	\$
427.02	3ft GVP Extension w/ Liner Rod, Coupling	3.0 lb.	\$
427.05	4ft GVP Extension w/ Liner Rod, Coupling	2.1 lb.	\$
427.09	1/2in Coupling (SST)	0.1 lb.	\$
427.11	GVP Barbed Adapter for 3/16in ID tubing	0.2 lb.	\$
ACCESSORIES			
400.99	5/8in Reg. Slide Hammer	10 lb.	\$
215.06	Hand Pump	1.6 lb.	\$
214.98	3/16in ID x 1/4in x 50ft Fluoropolymer Tubing	1.1 lb.	\$



## 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 40), but with the added benefit of flighted augers which allow you to penetrate rocky and hard soil conditions. The kits come with two 2in x 36in flighted extensions and a 2in x 36in flighted lead auger to allow the user to pre-bore a hole to a depth of 9ft! The flighted lead auger comes with a hard surfaced tip for regular soil conditions and a 2in carbide tip for heavily compacted soil. The heavy-duty GVP kits also come with a larger 2 1/2in wild bore concrete coring bit (SDS-Max) instead of the 1 1/2in concrete bit included in standard gas vapor probe kits. The wild bore bit allows you to sample beneath concrete by providing clearance for the 2in 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#	Item	Weight	Price
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#	Item	Weight	Price
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	Item	Weight	Price
214.26	2 1/2in		Wild Bore SDS-Max	6.6 lb.	\$
405.26	2in		Carbide Tip	0.7 lb.	\$
405.23	2in		Flighted Lead Auger w/ Hard Surfaced Tip	6.0 lb.	\$
405.24	2in	36in	Flighted Extension	5.8 lb.	\$
214.20			5/8in NC Male to SDS-Max Adapter	0.8 lb.	\$

### Optional Drills

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



#209.95



## AMS Sub-Slab GVP Kit

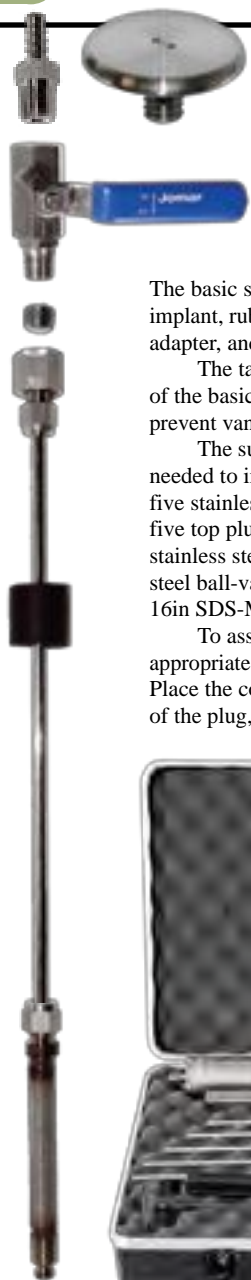
Sub-slab gas vapor probe kits are used to sample for volatile organic compounds (VOCs) beneath floor slabs during vapor intrusion investigations. These kits provide a semi-permanent probe that allows for repeated sampling over time in order to assess the potential of contaminated vapor intrusion beneath the floor slab of a building.

The basic sub-slab kit includes a stainless steel 3in-long implant, rubber shaft plug, connectors, top plug, hose barb adapter, and a 1/4in x 12in x 0.35in 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 3in implants, five rubber shaft plugs, connectors, five top plugs, five hose barb adapter, five 1/4in x 12in x 0.35in stainless steel tubes, five tamper-resistant top caps, mini stainless steel ball-valve adapter, 1in x 16in x 21in SDS-Max bit, 2in x 3in x 16in 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.



#52956

### AMS Sub-Slab Gas Vapor Probe Kits

Part#	Item	Weight	Price
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	Price
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	3in Implant w/ 1/4in 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	1in x 16in (usable length) x 21in (total length) SDS-Max Bit	2.3 lb.	\$
260.51	2in x 3in (usable length) x 16in (total length) SDS-Max Core Bit	3.7 lb.	\$
260.52	Tee Handle Allen Wrench	0.1 lb.	\$
213.89	Bosch 11264EVS 1 x 5/8in SDS-Max Rotary Hammer Drill	14.3 lb.	\$

## Installing the AMS Sub-Slab GVP



**1. Create a 1/8in 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.**

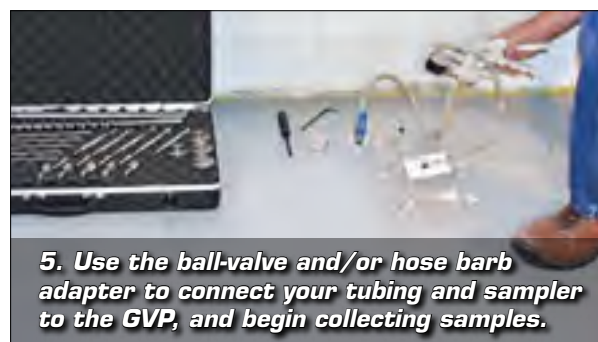
*This is how it should look.*



**3. Check for obstructions (if necessary)**



**4. Insert the assembled GVP and grout above the rubber plug.**



**5. Use the ball-valve and/or hose barb adapter to connect your tubing and sampler to the GVP, and begin collecting samples.**



**6. Screw on the tamper-resistant cap.**





#428.13

*Use sediment samplers to collect relatively undisturbed core samples of non-cohesive, saturated materials from shallow lakes, streams, and various types of impoundments*

## AMS Sediment & Water Sampling

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

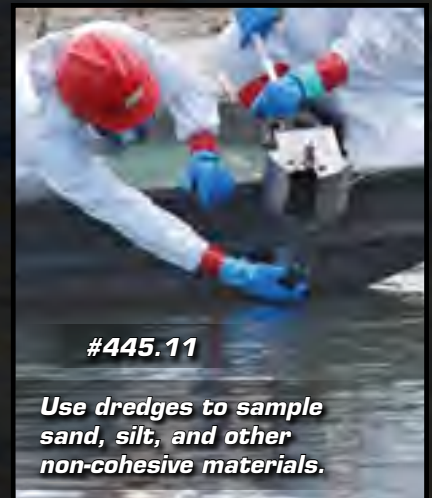
*The samples can be used for sediment profile descriptions, environmental sampling, and geotechnical analysis. These samplers are primarily used for shallow sediment sample retrieval, but deeper samples may be collected from pre-augered holes. Many of our sludge and sediment samplers may be used with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

*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.*



#445.11



## Sludge & Sediment Samplers

Similar in design to core sampler (page 16), 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 1/4in and 3 1/4in) and are available in lengths of 8in, 10in, and 12in. They include a solid cap, valved core tip, sludge cylinder body, universal slip wrench, plastic liner, and end caps. The solid cap, cylinder body, and tips are made of stainless steel.



### 5/8in Threaded, Sludge & Sediment Samplers

#428.11

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

### Quick Connect Sludge & Sediment Samplers

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

### Sludge & Sediment Samplers Replacement Parts

Part#	Diameter	Length	Item	Material	Weight	Price
428.10	2 1/4in		5/8in Threaded, Sludge Solid Cap	SST	1.4 lb	\$
428.15	3 1/4in		5/8in Threaded, Sludge Solid Cap	SST	2.3 lb	\$
328.10	2 1/4in		Quick Connect, Sludge Solid Cap	SST	1.7 lb	\$
328.15	3 1/4in		Quick Connect, Sludge Solid Cap	SST	2.6 lb	\$
428.07	2 1/4in		Valved Core Tip	SST	0.7 lb	\$
428.17	3 1/4in		Valved Core Tip	SST	1.0 lb	\$
428.08	2 1/4in		Valved Auger Tip	SST	0.9 lb	\$
428.16	3 1/4in		Valved Auger Tip	SST	1.4 lb	\$
428.09	2 1/4in	8in	Cylinder Body	SST	1.7 lb	\$
428.24	2 1/4in	10in	Cylinder Body	SST	2.1 lb	\$
428.26	3 1/4in	10in	Cylinder Body	SST	3.1 lb	\$
428.28	3 1/4in	12in	Cylinder Body	SST	3.8 lb	\$
422.03	2in	8in	Plastic Liner		0.2 lb	\$
422.04	2in	10in	Plastic Liner		0.2 lb	\$
422.01	3in	10in	Plastic Liner		0.3 lb	\$
422.02	3in	12in	Plastic Liner		0.4 lb	\$
418.10	2in		Plastic End Cap		0.1 lb	\$
418.09	3in		Plastic End Cap		0.1 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, 12in multi-stage base section, 2in x 12in plastic liner, two 2in end caps, 2in 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 45 for details.



#403.31

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

Part#	Diameter	Length	Item	Material	Weight	Price
403.31	2 3/8in	12in	Multi-Stage Sludge & Sediment Sampler	SST	9.7 lb.	\$

\*Notes: All components are included in the multi-stage sludge & sampling kit. See page 45 for replacement parts.

### 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.



Part#	Diameter	Material	Weight	Price
403.28	2 3/8in	SST	0.8 lb.	\$ 204.60

### 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	Price
403.29	2 3/8in	SST	0.8 lb.	\$

### Multi-Stage Extension Section

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 48in-long and to collect longer samples into one or multiple liners. They are made of 300 series stainless steel.



Part#	Diameter	Length	Material	Weight	Price
403.23	2 3/8in	12in	SST	3.9lb.	\$



## Multi-Stage Sludge & Sediment Sampling Kit

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

The kit includes all of the components of the multi-stage sludge & sediment sampler (page 44), 12in multi-stage base section, three 12in multi-stage extension sections, 2in multi-stage core tip, 2in multi-stage valved core tip, three 4ft extensions, 2in x 12in OD plastic liner, two 2in end caps, 2in core catcher, universal slip wrench, two crescent wrenches, 18in 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.



#209.41



**Liners are available in 24in, 36in, and 48in lengths.**

### 5/8in Threaded, Multi-Stage Sludge & Sediment Sampling Kit

Part#	Diameter	Item	Weight	Price
209.41	2 3/8in	Sludge & Sediment Sampling Kit	60.0 lb.	\$

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

Part#	Diameter	Item	Material	Weight	Price
403.24	2in	12in Multi-Stage Sampler Base	SST	4.4 lb.	\$
403.23		12in 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		4ft 5/8in Thread Extension	SST	2.1 lb.	\$
406.04		18in 5/8in Thread Cross Handle		1.3 lb.	\$
400.99		5/8in Reg. Slide Hammer		10.2 lb.	\$
421.10		12in Crescent Wrench		1.4 lb.	\$
421.29		Universal Slip Wrench		1.4 lb.	\$
430.07	2in	12in Nylon Brush		0.1 lb.	\$
430.01		Deluxe Carrying Case 1750		26.0 lb.	\$
404.91	2in	Plastic Core Catcher		0.1 lb.	\$
418.10	2in	Plastic End Cap		0.1 lb.	\$
405.10	2in	12in Plastic Liner		0.2 lb.	\$
425.20	2in	24in Plastic Liner		0.3 lb.	\$
406.72	2in	36in Plastic Liner		0.4 lb.	\$
406.73	2in	48in Plastic Liner		0.5 lb.	\$

\*Plastic, brass, stainless steel, and aluminium liners are available in various lengths. See page 61 for details. No returns are accepted for plastic liners.



#209.41

**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 12in extension sections. For more information on multi-stage extension sections, see page 44.**



## 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 1in core catcher and 1in x 24in 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 1in x 24in probe body, 10in rubber-gripped cross handle, replaceable core tip, 1in core catcher, 1in x 24in plastic liner, two 1in 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 54-55 for information on extensions and slide hammers.

### 5/8in Threaded, Sand & Sediment Probe

Part#	Diameter	Length	Item	Weight	Price
424.37	1 1/4in	24in	Sand & Sediment Probe	4.4 lb.	\$

### Sand & Sediment Probe

#### Replacement Parts & Accessories

Part#	Diameter	Length	Item	Weight	Price
425.04	1in	24in	Plastic Liner	0.2 lb.	\$
425.18	1in		Plastic End Cap	0.1 lb.	\$
425.018	1in		Plastic Core Catcher	0.1 lb.	\$
401.26		10in	Cross Handle	0.9 lb.	\$
400.96	5/8in Threaded		Compact Slide Hammer	7.5 lb.	\$
400.99	5/8in Threaded		Regular Slide Hammer	10.3 lb.	\$

#424.37



*Use this probe in dry or wet sands, as well as in sludges and sediments.*



*Push the probe into the material to be sampled using the included handle or optional slide hammer.*



*If necessary, use extensions to reach the desired sampling depth.*



*Core catchers can help prevent loss of sample during retrieval.*





#5618.00

### 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 4ft x 1 1/2in plastic liner, two 2ft x 1 1/2in plastic liners, six 1 1/2in plastic end caps, one metal core catcher, one plastic basket retainer, three 3ft 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 1/8in 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	Price
5618.00	2in OD Soggy Bottom Sampling Kit	100 lb.	\$

### SBS Kit Replacement Parts & Accessories

Part#	Item	Weight	Price	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 2ft	0.1 lb.	\$	1
5618.169	SBS Upper Lead Internal Rod	0.1 lb.	\$	1
5618.166	SBS Sampler Tube for 2ft 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 1/2in Basket Retainer - White	0.1 lb.	\$	1
5006.425	1 1/2in x 4ft PVC Liner	0.7 lb.	\$	1
5006.423	1 1/2in x 2ft PVC Liner	0.4 lb.	\$	2
418.08	1 1/2in Plastic End Cap	0.1 lb.	\$	6
5618.113	Internal Tip Chamber	2.3 lb.	\$	1
5618.114	1 1/8in x 2in SBS Top Cap	1.7 lb.	\$	1
5618.116	1 1/8in Vented Hammer Adapter	0.4 lb.	\$	1
5618.118	3/8in x 3ft Internal Rod w/ Coupler	7.1 lb.	\$	3
5004.06	1 1/8in x 3ft Direct Push Extension	20.0 lb.	\$	3
400.93	3/4in Heavy-Duty Slide Hammer	0.8 lb.	\$	1
5006.84	Steel T-Handle (3/8in Threaded)	28.0 lb.	\$	1
430.01	AMS Deluxe Carrying Case 1750	0.3 lb.	\$	1
5009.05	Brush for 1 1/8in External Extension	0.3 lb.	\$	1
5009.09	Brush for 2in 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
ACCESSORIES				
5618.121	SBS Chain Pull Cap	2.0 lb.	\$	-
18253	Big Foot Removal Jack	35 lb.	\$	-
10183	1 1/2in Basket Retainer - Red	0.1 lb.	\$	-
1002.24	3/8in Couplers	0.1 lb.	\$	-
418.16	0.003in x 4in x 100ft Perforated Roll Fluoropolymer Film	1.3 lb.	\$	-

#5618.00

**Drive this 4ft discrete-interval sediment sampler using the 20 lb. slide hammer**



## Ekman Dredge

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, 100ft 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#	Item	Material	Weight	Price
445.12	Ekman Messenger	SST	0.7 lb.	\$
445.13	Ekman Dredge Cable Kit		1.2 lb.	\$
53864	Ekman 5ft Handle		2.7 lb.	\$
445.00	1/4in Nylon Rope (per foot)		0.2 lb.	\$

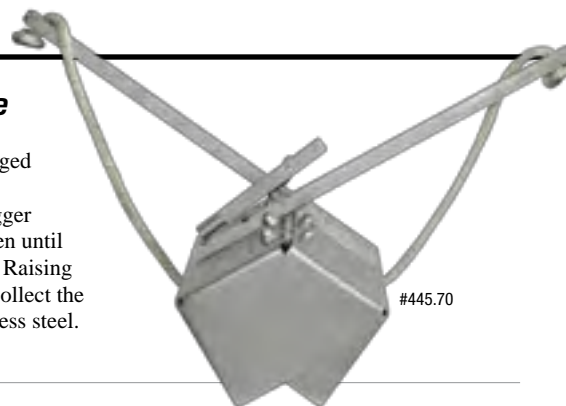
## Ekman Dredge

### Replacement Parts & Accessories

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

## 5 lb. Sand Silt Dredge

The 5 lb. sampler is great for grab sampling sand or silt. It features a hinged scissor jaw that is 6in x 7 1/2in 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.

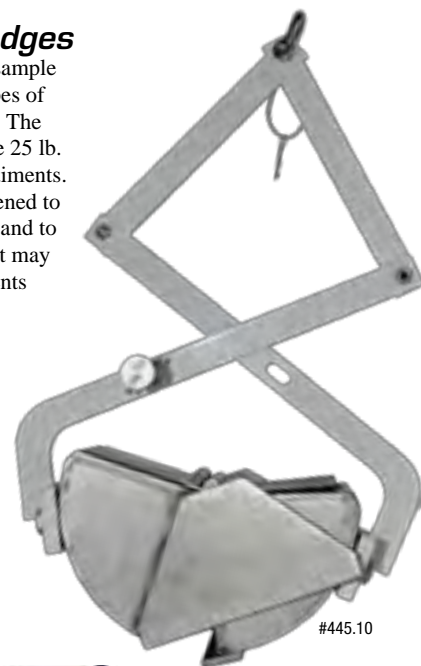


## 15 lb. & 25 lb. Bottom Dredges

AMS bottom dredges are 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 spring-loaded 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 6in x 6in jaw opening that provides a 36in<sup>2</sup> sampling area. The sampler bodies and jaws are made of 300 series stainless steel. The arms are made of powder-coated carbon steel.



**#445.60**

*The 5 lb., 15 lb., and 25 lb. bottom dredges close upon reaching the bottom surface.*

## Bottom Dredges

Part#	Item	Material	Weight	Price
445.70	5 lb. Sand Silt Dredge	SST	5.0 lb.	\$
445.10	15 lb. Bottom Dredge	SST	15.0 lb.	\$
445.60	25 lb. Bottom Dredge	SST	25.0 lb.	\$



## 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, #2100.36. The stainless steel body allows for quick and easy decontamination, and the tapered top on the 1 3/4in model allows for smoother raising and lowering.



## Stainless Steel Bailers

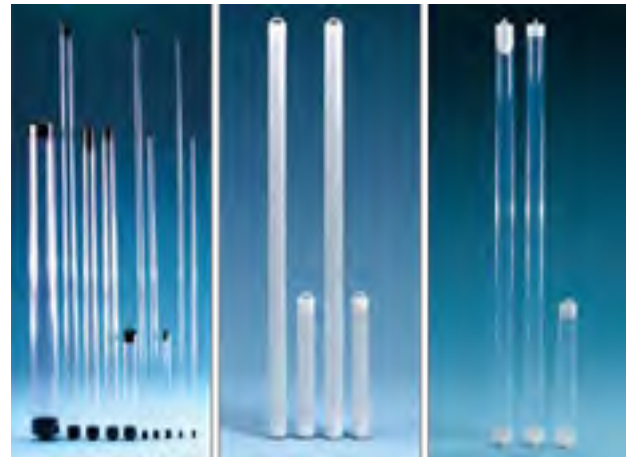
Part#	Diameter	Length	Item	Material	Weight	Price
451.00	1 3/4in	3ft	Tapered Bailer	SST	3.7 lb.	\$
2100.04	1in	3ft	Bailer	SST	1.2 lb.	\$
2100.09	7/8in	3ft	Bailer	SST	1.1 lb.	\$
2100.30	3/4in	3ft	Bailer	SST	1.0 lb.	\$
2100.00	5/8in	3ft	Bailer	SST	1.0 lb.	\$
2100.36	3/8in	18in	Top Fill Bailer	SST	0.4 lb.	\$
2100.39	1 3/4in	3ft	Top Fill Bailer	SST	3.7 lb.	\$



**Translucent polyethylene models are available with or without weighted bottoms**

## ClearView™ Disposable 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.



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

## ClearView™ Disposable Bailers

Part#	Diameter	Length	Item	Weight	Price
2106.30	0.46in	3ft	24 Clear PVC Bailers	6.0 lb.	\$
2106.25	0.46in	4ft	24 Clear PVC Bailers	7.0 lb.	\$
2106.20	0.7in	1ft	24 Clear PVC Bailers	5.0 lb.	\$
2106.15	0.7in	3ft	24 Clear PVC Bailers	6.0 lb.	\$
2106.05	1 1/2in	1ft	24 Clear PVC Bailers	10.0 lb.	\$
2106.00	1 1/2in	3ft	24 Clear PVC Bailers	14.0 lb.	\$
2106.70	1 1/2in	1ft	24 Clear Poly Bailers	6.0 lb.	\$
2106.75	1 1/2in	3ft	24 Clear Poly Bailers	8.0 lb.	\$
2106.80	1 1/2in	1ft	24 Weighted Poly Bailers	10.0 lb.	\$
2106.85	1 1/2in	3ft	24 Weighted Poly Bailers	12.0 lb.	\$
2106.50	1 1/2in	1ft	12 Fluoropolymer Bailers	10.0 lb.	\$
2106.55	1 1/2in	3ft	12 Fluoropolymer Bailers	6.0 lb.	\$

## Accessories

Part#	Diameter	Length	Item	Weight	Price
2100.38	275ft		#18 Twisted Nylon Twine	0.1 lb.	\$
2106.35			24 PVC Slow Emptying Devices	1.0 lb.	\$



## Water Level Meters & Product/Water Interface Meters

AMS water level and product/water interface meters use lightweight, aluminum reel construction. There are no plastic faceplates or plastic hubs to break. They feature a folding, ergonomic 4in crank handle that makes sampling deep wells a breeze. Both meters have precision-sealed, double-ball bearings that allow for easy and smooth winding. Their aluminum reel will operate smoothly for years, where as plastic reels are likely to wear out. They are also ideal for direct push drilling activities, either through tooling or through monitoring wells. See pages 86-91.

The 5/8in water level meter has a total well depth indicator that allows the user to get both a water level reading and a total depth reading with only the one meter. Lower the probe once and get two readings with one instrument. So there is no need to buy a tag line separately. With zero displacement readings, the 7/16in water level meter probe does not affect the static water level by more than 0.005in.

AMS product/water interface meters, also known as oil/water interface meters, are similar to AMS water level meters, but they also allow you to get quick readings through heavy oils while preventing false readings with the unique sensitivity control. This meter also has a unique oil shedding design with the most rugged impact-resistant shroud on the market – combining two features only found separately on other meters. For unusual water/viscous oil conditions, an internal water sensitivity adjustment can be used to provide quicker and more accurate readings.

### Water Level Meter Features:

- Aluminum reel and folding crank handle
- AMS 7/16in and 5/8in water level meters are ideal for 1/2in ID wells and 3/4in ID wells, respectively.
- Ideal for measuring the gradient and direction of an aquifer, which is necessary when monitoring contaminants or plum migration.
- Measure large aquifers where water level changes are relatively small.
- 5/8in probes have a bottom-sensing feature.

### Product/Water Interface Meters Features:

- Aluminum reel and folding crank handle
- Allows the user to determine the thickness of the product
- Detects floating contaminant with an electro-optic sensor which makes them ideal for direct push drilling, either through tooling or through monitoring wells
- Removable electronics for easy decontamination
- Sensitivity adjustment for oil and water
- Pressure-rated probe

## Water Level & Product/Water Interface Meters

Part#	Item	Probe Dia.	Tape Length	Weight	Price
3012.90	Water Level Meter	7/16in	100ft (30m)	8.0 lb.	\$
3012.95	Water Level Meter	7/16in	200ft (50m)	8.0 lb.	\$
3012.68	Water Level Meter	5/8in	100ft (30m)	8.0 lb.	\$
3012.69	Water Level Meter	5/8in	200ft (50m)	8.0 lb.	\$
3012.92	Product/Water Interface Meter	7/16in	100ft (30m)	8.0 lb.	\$
3012.97	Product/Water Interface Meter	7/16in	200ft (50m)	8.0 lb.	\$
3012.78	Product/Water Interface Meter	5/8in	100ft (30m)	8.0 lb.	\$
3012.79	Product/Water Interface Meter	5/8in	200ft (50m)	8.0 lb.	\$
ACCESSORIES					
3012.83	Padded Carrying Case			1.0 lb.	\$

## 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 2in or larger. They are made of stainless steel and have fluoropolymer 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 25ft 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 25ft
- 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 2in ID and larger
- Collected high-quality samples



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

## Discrete Liquid Sampler Kits

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

## Discrete Liquid Sampler Kits Replacement Parts

Part#	Item	Weight	Price
2205.07	Liquid Sampler Dual-Valve Bottom Body Complete		\$
CONTAINER			
2201.15	12in Fluoropolymer Liquid Sampler Container		\$
2205.00	Liquid Sampler Top Cap with Fluoropolymer Valve		\$
2205.51	Liquid Sampler Metering Valve (dual-valve kit)		\$
2205.03	Liquid Sampler Dump Valve Cap (single-valve kit)		\$
2201.30	Liquid Sampler Fluoropolymer Container Cap		\$
CABLE			
2202.55	Liquid Sampler Cable-Control per Foot		\$
2202.60	Liquid Sampler Cable-Control T-Handle		\$
2202.50	Cable Control Fitting Kit		\$





#59000

*Evaluate strength and density of soil, in situ.*



#400.97

*Monitor infiltration rates, and study liquid waste disposal, leaching, and drainage efficiencies.*



#59010

*Evaluate the consistency of soils, their level of compaction, and the bearing capacity of foundations and pavement subgrades.*

## AMS Geotechnical Sampling & Testing

AMS geotechnical sampling and testing products allow the user to conduct geotechnical investigations of soil – including 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.



#59020

*Take direct readings of un-drained shear strength in soft and stiff clays.*



*Geotechnical sampling and testing can also be conducted with AMS PowerProbes™ and direct push tooling (page 93).*



## Borehole Preparation Kit

The borehole preparation kit allows you to manually auger a 2 1/2in 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 1/4in regular auger, 2 1/4in planer auger, 4ft extension, 3ft extension, 18in rubber-coated handle, and poly-canvas carrying case. All of the components have a 5/8in threaded connection type.



**Auger a clean pilot hole with the borehole preparation kit.**

## 5/8in Threaded, Borehole Preparation Kit

Part#	Item	Weight	Price
400.78	Borehole Preparation Kit	7.0 lb.	\$

## 5/8in Threaded, Borehole Preparation Kit Replacement Parts

Part#	Diameter	Length	Item	Weight	Price
400.08	2 1/4in		Regular Auger	1.7 lb.	\$
400.53	2 1/4in		Planer Auger	1.3 lb.	\$
408.02		3ft	Extension	1.7 lb.	\$
408.03		4ft	Extension	2.3 lb.	\$
406.04		18in	Rubber-Coated Handle	1.3 lb.	\$
430.32		4ft	Poly-Canvas Case	2.0 lb.	\$

## 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 1.5cm<sup>2</sup>. An larger, optional cone with an area of 3cm<sup>2</sup> is available for use in soft soils. The dual-rod construction isolates cone resistance from shaft friction. The pressure gauge ranges from 0 to 70kg/cm<sup>2</sup> 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#	Item	Weight	Price
59010	Static Cone Penetrometer Complete	8.0 lb.	\$

## Static Cone Penetrometer Replacement Parts

Part#	Diameter	Item	Weight	Price
59018	24in	SCP Starter Rod Assembly	1.0 lb.	\$
59017	24in	SCP Extension Rod Assembly	1.0 lb.	\$
59016	24in	SCP Extension Inner Rod	0.5 lb.	\$
59015	24in	SCP Starter Inner Rod	0.5 lb.	\$
59014	24in	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.**

## 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.



**#400.97**

**Use a stopwatch to measure the duration of dissipation to determine infiltration rates and saturation of the soil.**

## Infiltration Rings

Part#	Inner Ring	Outer Ring	Item	Weight	Price
400.97	6in ID	12in OD	Infiltration Ring	4.0 lb.	\$
400.98	12in ID	24in OD	Infiltration Ring	7.0 lb.	\$
ACCESSORIES					
11677	37 oz.		Dead Blow Hammer	2.4 lb.	\$



## Dynamic Cone Penetrometer

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 20ft (6.1m). A drive mass that falls 20in (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 3/4in are correlated to N values derived from the Standard Penetration Test (SPT). The cone can be replaced with a drive tube assembly to collect 3in x 10in (7.6cm x 25.4cm) 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 1.5in (3.8cm) diameter, DCP extensions, instructions, and an ASTM STP 399 Special Publication. It has a heat-treated cone and zinc-plated steel components.

### Dynamic Cone Penetrometer

Part#	Item	Weight	Price
59000	Dynamic Cone Penetrometer	72.0 lb.	\$

### DCP Replacement Parts & Accessories

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



## Field Vane Shear Tester Kit

This kit allows you to take direct readings of un-drained shear strength to depths of 10ft (3.3m) 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 0.63in x 1.25in (16 x 32mm), 0.79in x 1.58in (20 x 40mm), and 1in x 2in (25.4 x 50.8mm).

### Field Vane Shear Tester

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

### Field Vane Shear Tester Replacement Parts

Part#	Item	Weight	Price
59021	1cm x 50cm FVS Extension Rod	1.0 lb.	\$
59022	16 x 32mm FVS Vane (0-200 kPa)	0.5 lb.	\$
59023	20 x 40mm FVS Vane (0-100 kPa)	0.5 lb.	\$
59024	24.4 x 50.8mm FVS Vane (0-50 kPa)	0.5 lb.	\$
59025	16 x 32mm FVS Dummy Vane	0.5 lb.	\$
59026	Torque Handle (Etched Markings)	2.0 lb.	\$



## AMS Cross Handles

AMS 18in and 22in rubber-coated handles are made of chromoly and are coated with textured rubber. The 18in rubber-coated handles are available with signature series, 3/4in threaded, 5/8in threaded, and quick connect connections. The 22in models are only available with a 3/4in threaded connection. 10in rubber-gripped handles have a 5/8in threaded connection. Ratcheting handles are available with signature series, 3/4in threaded, 5/8in 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.

### Signature Series, Cross Handles

Part#	Length	Item	Weight	Price
351.54	18in	Rubber-Coated Cross Handle	1.1 lb.	\$
351.56	18in	Ratcheting Cross Handle	2.4 lb.	\$

### 3/4in Threaded, Cross Handles

Part#	Length	Item	Weight	Price
402.31	18in	Rubber-Coated Cross Handle	1.3 lb.	\$
406.87	18in	Ratcheting Cross Handle	2.5 lb.	\$
406.05	22in	Rubber-Gripped Cross Handle	1.6 lb.	\$

### 5/8in Threaded, Cross Handles

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

### Quick Connect, Cross Handles

Part#	Length	Item	Weight	Price
306.06	18in	Rubber-Coated Cross Handle	1.3 lb.	\$
306.07	18in	Ratcheting Cross Handle	2.4 lb.	\$

### Ratcheting Handle Replacement Parts

Part#	Item	Weight	Price
406.85	Ratcheting Handle without Fitting	2.3 lb.	\$
406.82	5/8in 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.	\$

## Rock Breaker Kit

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

### 3/4in Threaded Rock Breaker

Part#	Item	Weight	Price
424.001	Rock Breaker Kit	1.5 lb.	\$

### 5/8in Threaded Rock Breaker

Part#	Item	Weight	Price
424.00	Rock Breaker Kit	1.5 lb.	\$



#351.56



#406.04



#306.06



#401.26



#401.27

#11677

## 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 2in 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 5/8in threaded connection. It is used with an all-purpose, impact-absorbing dead blow hammer. It is not intended for use with steel sledge hammers.



#401.27

## 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	Price
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.	\$

### 5/8in Threaded, Slide Hammers

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

### 3/4in Threaded, Slide Hammers

Part#	Item	Weight	Price
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 powder-coated (orange).



#400.96

#400.99

#57780

#400.93

#400.86



## AMS Extensions

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

### Signature Series Extensions

Part#	Length	Material	Weight	Price
351.00	1ft		0.8 lb.	\$
351.01	2ft		1.2 lb.	\$
351.02	3ft		1.7 lb.	\$
351.03	4ft		1.7 lb.	\$
351.04	5ft		2.4 lb.	\$

### 3/4in Threaded Extensions

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

### 5/8in Threaded Extensions

Part#	Length	Material	Weight	Price
408.00	1ft		0.8 lb.	\$
408.01	2ft		1.2 lb.	\$
408.02	3ft		1.7 lb.	\$
408.03	4ft		2.3 lb.	\$
408.04	5ft		2.4 lb.	\$
409.06	1ft	SST	0.8 lb.	\$
409.07	2ft	SST	1.3 lb.	\$
409.08	3ft	SST	1.7 lb.	\$
409.09	4ft	SST	2.2 lb.	\$
409.10	5ft	SST	2.6 lb.	\$

### Quick Connect Extensions

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



## Connection Adapters

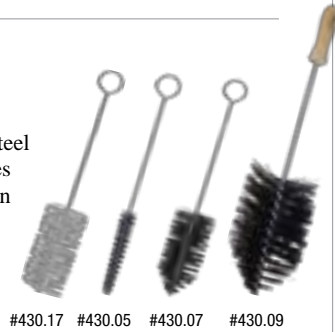
Adapters allow for conversion among AMS signature series, 5/8in threaded, and quick connect connection types.

### Connection Adapters

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



### Cleaning Brushes

Part#	Diameter	Length	Item	Weight	Price
1002.10	1/2in to 3/4in	12in	Nylon Brush	0.1 lb.	\$
430.05	1in	24in	Nylon Brush	0.2 lb.	\$
430.11	1 1/2in	12in	Nylon Brush	0.2 lb.	\$
430.07	2in	12in	Nylon Brush	0.2 lb.	\$
430.09	3in	12in	Nylon Brush	0.2 lb.	\$
430.21	1 1/2in	12in	SST Brush	0.2 lb.	\$
430.17	2in	12in	SST Brush	0.2 lb.	\$
430.19	3in	12in	SST Brush	0.2 lb.	\$

## Wrenches

Wrenches are used to assemble and disassemble threaded sampler components.



### Wrenches

Part#	Item	Weight	Price
421.10	12in Crescent Wrench	1.7 lb.	\$
421.29	Universal Slip Wrench	1.3 lb.	\$
425.77	Spanner Wrench	0.2 lb.	\$
208.63	Spanner Screwdriver	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	Price
430.01	4ft	Deluxe Carrying Case (54in x 18in x 6in)	28.9 lb.	\$
424.62	2ft	Mini Carrying Case (26in x 13in x 6in)	1.0 lb.	\$
430.02	3ft	Poly-Canvas Case	2.0 lb.	\$
430.04	4ft	Poly-Canvas Case	2.0 lb.	\$
430.00	3ft	Poly-Canvas Core Sampler Case	2.0 lb.	\$
430.31	3ft	Signature Poly-Canvas Case	2.0 lb.	\$
430.32	4ft	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.



### Quick Connect Repair Kit

Part#	Item	Weight	Price
309.12	QC Finger Ring	1.0 lb.	\$
300.90	QC Repair Kit	1.0 lb.	\$



**NEW and Improved!**

**Includes two new soil charts, more water resistant pages, and recessed paint chips!**

## 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	Price
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	Price
504.20	McCollough Geo Guide Card and Geotechnical Gauge	0.1 lb.	\$



## 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 18in in length, 5 1/4in in width at top, and tapers to 4 1/4in in width at bottom. The handle is 29in long, and is available with rubber coating to reduce recoil from striking rocks. These shovels are made using heavy-duty, heat-treated carbon steel and are coated for rust resistance.



#410.00

#410.01

### 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 3/4in x 11in. The overall length of the shovel is 54in.



## 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	Price
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.	\$





## Plastic, Stainless Steel, Brass & Aluminum Liners

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

### Plastic Liners

Part#	Diameter	Length	Weight	Price
425.07	3/4in	12in	0.1 lb.	\$
425.09	3/4in	24in	0.1 lb.	\$
425.02	1in	12in	0.1 lb.	\$
425.04	1in	24in	0.2 lb.	\$
406.56	1 3/8in	6in	0.1 lb.	\$
406.57	1 3/8in	12in	0.2 lb.	\$
405.08	1 1/2in	6in	0.1 lb.	\$
406.53	1 1/2in	12in	0.1 lb.	\$
404.17	2in	1in	0.1 lb.	\$
404.18	2in	2in	0.1 lb.	\$
404.19	2in	3in	0.1 lb.	\$
404.20	2in	4in	0.1 lb.	\$
404.21	2in	6in	0.2 lb.	\$
422.03	2in	8in	0.2 lb.	\$
422.04	2in	10in	0.2 lb.	\$
405.10	2in	12in	0.2 lb.	\$
425.20	2in	24in	0.3 lb.	\$
406.72	2in	36in	0.4 lb.	\$
406.73	2in	48in	0.5 lb.	\$
406.55	2 1/2in	6in	0.2 lb.	\$
406.74	2 1/2in	12in	0.3 lb.	\$
405.09	3in	6in	0.2 lb.	\$
422.01	3in	10in	0.3 lb.	\$
422.02	3in	12in	0.4 lb.	\$

\*No returns are accepted for Plastic Liners.

### Brass Liners

Part#	Diameter	Length	Weight	Price
405.11	1 1/2in	6in	0.3 lb.	\$
405.99	1 1/2in	12in	0.6 lb.	\$
404.22	2in	1in	0.1 lb.	\$
404.23	2in	2in	1.2 lb.	\$
404.24	2in	3in	0.2 lb.	\$
404.25	2in	4in	0.3 lb.	\$
404.26	2in	6in	0.4 lb.	\$
406.25	2in	8in	0.5 lb.	\$
406.26	2in	10in	0.6 lb.	\$
405.12	2in	12in	0.8 lb.	\$
405.33	2 1/2in	3in	0.3 lb.	\$
405.16	2 1/2in	6in	0.5 lb.	\$
405.17	3in	6in	0.9 lb.	\$

### Stainless Steel Liners

Part#	Diameter	Length	Weight	Price
425.15	3/4in	12in	0.3 lb.	\$
425.16	3/4in	18in	0.3 lb.	\$
425.17	3/4in	24in	0.5 lb.	\$
425.11	1in	12in	0.4 lb.	\$
425.13	1in	24in	0.8 lb.	\$
403.87	1 3/8in	6in	0.3 lb.	\$
405.13	1 1/2in	6in	0.5 lb.	\$
405.81	1 1/2in	12in	1.0 lb.	\$
404.27	2in	1in	0.1 lb.	\$
404.28	2in	2in	0.2 lb.	\$
404.29	2in	3in	0.4 lb.	\$
404.30	2in	4in	0.5 lb.	\$
404.31	2in	6in	0.7 lb.	\$
422.07	2in	8in	0.7 lb.	\$
422.08	2in	10in	1.1 lb.	\$
405.14	2in	12in	1.3 lb.	\$
405.20	2 1/2in	6in	0.8 lb.	\$
405.88	2 1/2in	12in	1.6 lb.	\$
405.21	3in	6in	1.0 lb.	\$
422.05	3in	10in	1.7 lb.	\$
422.06	3in	12in	2.0 lb.	\$

### Aluminum Liners

Part#	Diameter	Length	Weight	Price
405.04	1 1/2in	6in	0.2 lb.	\$
405.57	1 1/2in	12in	0.3 lb.	\$
404.11	2in	1in	0.1 lb.	\$
404.12	2in	2in	0.1 lb.	\$
404.13	2in	3in	0.1 lb.	\$
404.15	2in	4in	0.2 lb.	\$
404.16	2in	6in	0.2 lb.	\$
405.45	2in	8in	0.3 lb.	\$
405.46	2in	10in	0.3 lb.	\$
405.07	2in	12in	0.4 lb.	\$
405.15	2 1/2in	6in	0.3 lb.	\$
405.64	2 1/2in	12in	0.5 lb.	\$
405.06	3in	6in	0.3 lb.	\$
405.71	3in	10in	0.5 lb.	\$
405.72	3in	12in	0.6 lb.	\$
405.67	3in	3in	0.2 lb.	\$

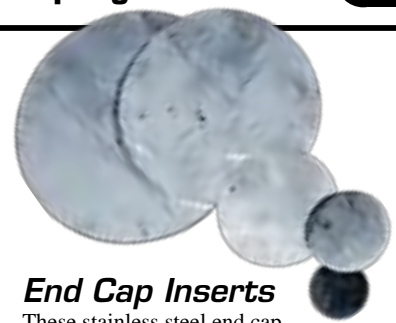


### Liner End Caps

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	Price
425.22	3/4in	0.1 lb.	\$
425.18	1in	0.1 lb.	\$
418.11	1 3/8in	0.1 lb.	\$
418.08	1 1/2in	0.1 lb.	\$
418.10	2in	0.1 lb.	\$
404.85	2 1/2in	0.1 lb.	\$
418.09	3in	0.1 lb.	\$

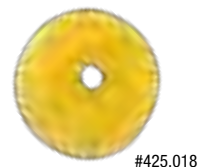
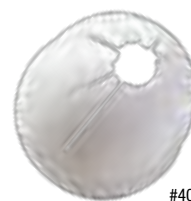


### End Cap Inserts

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	Price
422.15	3/4in	SST	0.1 lb.	\$
422.16	1in	SST	0.1 lb.	\$
422.14	1 1/2in	SST	0.1 lb.	\$
422.13	2in	SST	0.1 lb.	\$
422.12	2 1/2in	SST	0.1 lb.	\$
422.11	3in	SST	0.1 lb.	\$



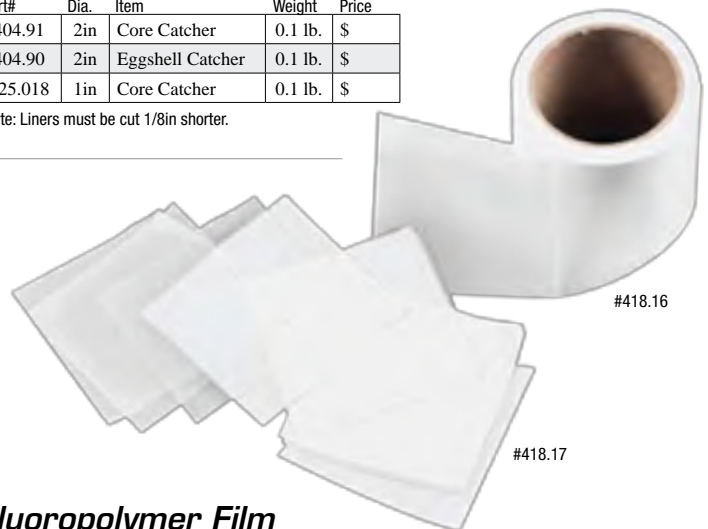
### Core Catchers

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 2in core catchers are used with core, split-core, and sludge & sediment samplers. The 1in core catcher is used with the sand & sediment probe.

### Core Catcher

Part#	Dia.	Item	Weight	Price
404.91	2in	Core Catcher	0.1 lb.	\$
404.90	2in	Eggshell Catcher	0.1 lb.	\$
425.018	1in	Core Catcher	0.1 lb.	\$

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



### 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 4in x 4in swatches.

### Fluoropolymer Film

Part#	Thickness	Width	Item	Weight	Price
418.16	.003in	4in	100ft Roll of Perforated Fluoropolymer Film	1.3 lb.	\$
418.17	.003in	4in	Fluoropolymer Film Swatches (50)	1.6 lb.	\$

## 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 1/2in chuck. 410 models use an EA-410 adapter.



	#213.81 EDR-210 (rev.)	#213.86 EDR-260 (rev.)	#213.83 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:	1/2in	n/a	n/a
Max. Torque at Engine:	n/a	n/a	1.49 ft. lbs.
Max. Torque at Auger:	n/a	n/a	44.9 ft. lbs.
Dry Weight:	13.0 lb.	13.3 lb.	21.4 lb.
Price:	\$	\$	\$

## Gas Drill Accessories

The support bracket and side handle replacement are used with the Echo EDR-210 and the EDR-260 gas drills.

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

## Rotary Hammer Drills

These drills offer a lot of power for heavy-duty applications. Rotary hammer drills can be used to penetrate asphalt and concrete and have both rotary and hammering capabilities.



	#213.92 DeWALT D25600K	#213.88 Bosch 11245	#213.89 Bosch 11264EVS
AMPS 120V:	11.5	14	13
Max Watts Out:	1,000 w	n/a	n/a
No Load Speed:	140-280 rpm	120-250 rpm	170-340 rpm
Weight:	34.0 lb.	37.0 lb.	14.3 lb.
Price:	\$	\$	\$

## Drill Adapters



Part#	Item	Weight	Price
260.46	Heavy-Duty Splined Adapter (260.40, 260.32 and 260.33 only)	3.4 lb.	\$
260.48	Heavy-Duty SDS-Max Adapter (260.42, 260.32 and 260.33 only)	3.1 lb.	\$
213.50	5/8in NC Male to 1/2in Gas Drill Adapter	0.4 lb.	\$
214.20	5/8in NC Male to SDS-Max Drill Adapter	0.8 lb.	\$
214.50	5/8in NC Male to SDS-Plus Drill Adapter	0.8 lb.	\$
405.27	5/8in NC Male to Splined Drill Adapter	0.6 lb.	\$
213.46	5/8in NC Male to EA-410 Drill Adapter	0.7 lb.	\$
213.48	5/8in NC Male to EA-410 Spring Adapter	3.9 lb.	\$
213.44	5/8in NC Female to 5/8in Male Gas Drill Spring Adapter	3.9 lb.	\$

## 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.

### Rocky Soil Screw Augers

Part#	Item	Adapter	Price
214.28	2in Carbide Bit	Splined	\$
214.30	2in Carbide Bit	SDS-Max	\$

### Concrete Bits

Part#	Item	Adapter	Price
214.22	1 1/2in Concrete Bit	SDS-Max	\$
214.26	2 1/2in Wild Bore Bit	SDS-Max	\$
214.014	2 1/2in Wild Bore Bit	Splined	\$

### Concrete Coring Bits

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

### Concrete Coring Bits Replacement Parts & Accessories

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





## 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.



## GVP Tubing Options

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

## Syringe & Cap

Syringes are ideal for soil gas sampling. Both luer-slip 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 device 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	Weight	Price
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		\$

## 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	Weight	Price
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)		\$



## 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 15ft cord and plug. It is portable, and the pump will collect soil gas and groundwater samples into containers.

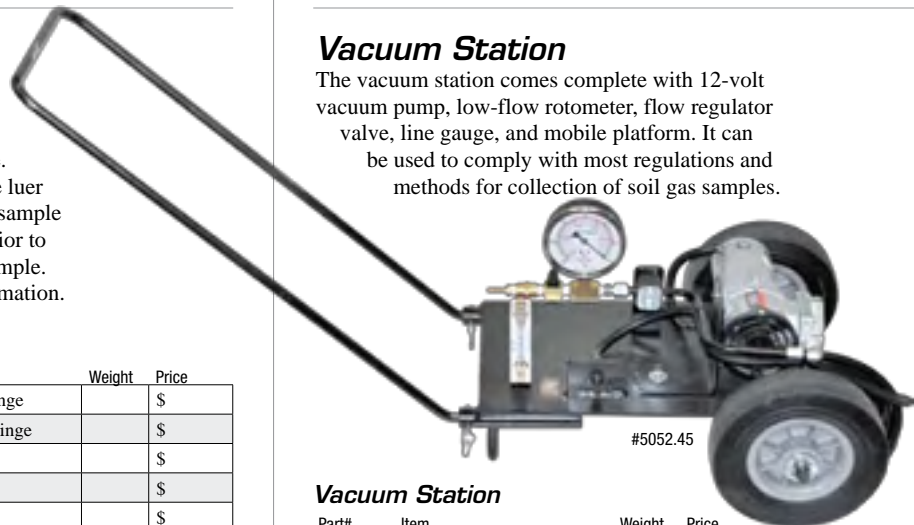


## Vacuum Pumps

Part#	Item	Weight	Price
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.



## Vacuum Station

Part#	Item	Weight	Price
5052.45	Vacuum Station (12 Volt)	35 lb.	\$

## 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

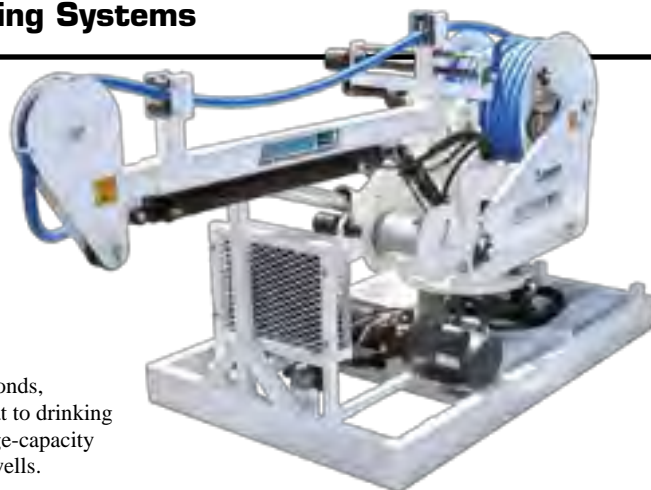
Part#	Item	Weight	Price
211.05	Removal Jack	30 lb.	\$
211.06	Tee Jack Adapter	1.1 lb.	\$
18253	Big Foot Removal Jack	35 lb.	\$



## 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 43), bailers (page 49), and direct push groundwater sampling and monitoring systems (page 90) 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-spoon 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-3500 groundwater well sampling and monitoring systems increase well-monitoring efficiency, and save time, money and labor.**



**The automated, hydraulic-driven boom will handle sampling jobs up to 300ft deep.**

### 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 300ft. 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 pressure 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, 16in 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, see page 90, or contact AMS customer service.

#### Port-A-Reels

Part#	Item	Weight	Price
2602.15	150ft Manual Port-A-Reel with Redi-Flo 2in Pump	177 lb.	\$
2602.30	300ft Manual Port-A-Reel with Redi-Flo 2in Pump	229 lb.	\$
2603.15	150ft Hydraulic Port-A-Reel with Redi-Flo 2in Pump	323 lb.	\$
2603.30	300ft Hydraulic Port-A-Reel with Redi-Flo 2in Pump	365 lb.	\$



**This environmental model uses a polyethylene tube with a fluoropolymer lining to deliver water to the surface.**



## 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 3.5in 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™ (pages 64-74). See page 96 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 ft-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.

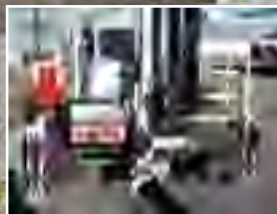
"We use the AMS PowerCore coring system for pavement evaluations on asphalt and concrete highways. Since the PowerCore design does not require a dedicated vehicle, it has given us greater versatility in the use of our equipment and manpower. This combined with its ease of operation, has proven to be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

— Idaho Transportation Department Personnel



**PowerCore 9500**

**AMS PowerCore asphalt & concrete coring systems provide a convenient, cost-effective method for retrieving a soil sample covered by pavement.**





## Sonic Drilling Technology

Sonic is a fast, clean, low-impact drilling technology that uses sonic vibration to fluidize porous materials. The technology offers high production in drilling footage, enhanced safety for you and your drill crew, clean work areas, low site impact, low noise, and high quality core samples.

The sonic head brings drill casings and rods to a vibration frequency of 100-200 Hz. The vibrations cause the casing to stretch and thin, and to shorten and thicken 100-200 times per second. A very thin layer of soil around the drill rods becomes fluidized, which dramatically reduces the friction between the drill rod and the surrounding soil, and allows for very rapid penetration. The same friction reduction applies to the inner surface of the tooling, and it enables the collection of very long soil core samples (up to 12ft).

The AMS Compact Roto-Sonic 17-C, (CRS-17-C) and Compact Sonic 10-C (CS-10-C) can drill and sample clay, silt, sand, and gravel. They can also cut through concrete and asphalt. Additionally, sandstone, limestone, siltstone, and other coarse, competent deposits can be drilled with the CRS-17-C using water, mud, or air.

The sonic head contains two synchronized eccentric weights that are driven by high-speed hydraulic motors, (6-12,000 rpm). The sonic head is mounted in oversized isolation blocks to concentrate energy on the drill string. The movement of the weights brings the casing into a purely vertical vibration.

## Sonic Advantages

- High-quality, high-value core samples
- Fantastic production in drilling footage
- No Spinning Augers
- No cuttings or waste to dispose
- Small package for difficult access
- Small Foot Print
- Lower cost per data point or core sample
- Safe and easy rod handling
- Hands Free (No Pipe Wrenches)
- Relatively simple and quiet operation
- Diverse uses for many applications
- One year manufacture warranty



**CRS-17-C**

**AMS sonic rigs can collect samples in clay, silt, sand, and gravel. The CRS-17-C can drill through sandstone, limestone, siltstone, and other coarse, competent deposits using water, mud, or air.**



**Get a small foot print, no spinning augers, and no cuttings or waste.**



**Sonic has diverse uses with many applications and market areas.**



**Get high-quality core samples and fantastic production in drilling footage.**



## Sonic Applications

- Environmental
- Geotechnical
- Geo-Construction
- Seismic, Shot-Hole
- Geothermal/Heat Loop
- Mineral Exploration
- De-Watering
- Formation Stabilization
- Water Well Drilling
- Archeological

Ground source heat loops can be installed with 2.5in, 3.5in, 4.0in, and 5.0in casing depending on the loop diameters and the depth requirements for each borehole. Unlike many other drilling techniques, sonic can drill while casing the borehole to eliminate collapse of the borehole, and it does not require high volume air or mud. Borehole-wall compaction aids in conductivity as the formation is typically displaced into the borehole walls. Drop off tips, expendable cones, and knock off bits allow the casing to reach the targete depth. The loop is installed inside the casing, grout is added, and the casing vibrated out.

Environmental sampling and monitoring wells can be installed with dual-tube sampling systems, in 2in x 4in, 3in x 5in, and 4in x 6in core barrel-diameter and outer casing tooling sizes. Smaller inner rods, typically 2.5in or 3in OD, are used to attach to the 2in, 3in, or 4in core barrel, with a flush or minor upset casing washed or vibrated over the core barrel casing the borehole. The core barrels are extracted using the drill head or a wire-line winch. The casing remains in the formation until the targeted depth is reached, and a well is set or the hole grouted.

Seismic shot-hole drilling is fast and efficient with sonic, even in collapsing conditions. High production is accomplished by drilling with small-diameter casing and a drop off tip. Casing diameters include 2.5in (63mm), 3.5in (88mm), or 4in (100mm), with expendable tips available for all casing sizes. A variety of bits for rock and gravel include finger, drag, chevron, open face, and full face.

Geo-construction with AMS sonic rigs improves overall on-site production by maximizing the footage drilled per day. Micro-piles, tie-backs, soil nails, or injection grouting with sonic technology is faster in unconsolidated formations than other techniques. Hollow bar installations can be completed with a sonic drill and grout system, using star bits or lost cones in most formations. Tooling sizes range from 2.5in injection rods to 8in OD casing for micro-piles.

Mineral sampling and exploration can be accomplished with sonic drill machines in softer rock or tailings piles. Specialty samplers, including the AquaLock™ or dual-tube sampler, are ideal for core recovery and sampling. Core barrels range from 2in to 6in and can be selected based on site geology.

Core sampling using the AquaLock™ piston sampler collects high-quality cores in a variety of conditions – even loose sand and saturated sediments that are typically difficult to collect with standard techniques. The AquaLock™ is available in 2in and 3in core barrels. The barrels are made of stainless steel and are comprised of a valve-operated drive head, internal floating piston and a choice of cutting shoes for differing lithologic conditions. Cores can be extruded into PVC liners, polyethylene bags or core boxes. The AquaLock™ is the tool of choice in unconsolidated formations where recovery is critical. It is deal for mine tailings, site investigations, marine sediments, leach ponds and more.

## Compact Sonic 10-C

The AMS Compact Sonic 10-C (CS-10-C) puts out 20,000 lb. of force, and the operator can select sonic vibration or rotation. This is a great package where access is limited and increased drilling production is paramount. It is ideal for continuous cores, groundwater sampling, prepacked well installations, injection grouting and remediation work.

It produces high-quality samples in alluvial deposits and soft overburden. Typical boring depths are between 50ft and 100ft for 2in and 4in tooling, respectively. Combined with the AquaLock™ sampler, the CS-10-C can reach depths of 300ft in saturated, un-consolidated conditions. Options include auger attachments for installing larger traditional groundwater monitoring wells, wireline winch systems, stabilization jacks, water pumps, and more.



## Compact Roto-Sonic 17-C

With output forces similar to the CS-10-C, and the capability of both rotation and vibration simultaneously, the Compact Roto-Sonic 17-C (CRS-17-C) is designed to drill deeper, faster and bigger boreholes. The combination of rotation and sonic vibration provides much higher down-hole cutting action, facilitating drilling in more competent semi-consolidated geologic formations. Where soil conditions are unknown or generally difficult, the CRS-17-C is the best choice. Customers have drilled to depths of 200ft and 100ft with 3in and 8in casings, respectively. In the right lithology it can drill to 300ft.

### Technical Specifications:

- Vibration: 20,000 - 28,000 lbs. at 150 hertz
- Rotation: 1,475 ft.-lbs. at 205 rpm
- Feed System: 12ft and 8ft stroke
- Pull Back: 13,000 lbs.
- Power: John Deere 173 HP diesel
- Ground Pressure: 4.6 psi
- Weight: 17,000 lbs.
- Length: 99in
- Width: 84in



**CRS-17-C**

**Sonic drill rigs can drive and retrieve casing with relatively low pull-down or pull-up force.**



## PowerProbe™ Direct Push Drilling Technology

AMS PowerProbe™ direct push drill rigs use the static weight of the rig, hydraulic down pressure, and rapid hydraulic hammering to advance a wide variety of direct push tooling and instrumentation into the subsurface lithology. PowerProbes™ are effective to depths ranging beyond 100ft below ground surface, as well as in tight silt, swelling clay, heaving sand, and gravel. Direct push systems work with a variety of sampling options, contaminant sensors, geotechnical devices, and site investigation options. PowerProbes™ are mounted on trucks, trailers, tracks, tractors, and skid steers, as well as portable or floating platforms. The variety platforms offers the ability to sample limited access areas, off road sites, and areas with low over-head clearance. Some platforms are even small enough to fit through standard doorways.

## PowerProbe™ Cost Savings

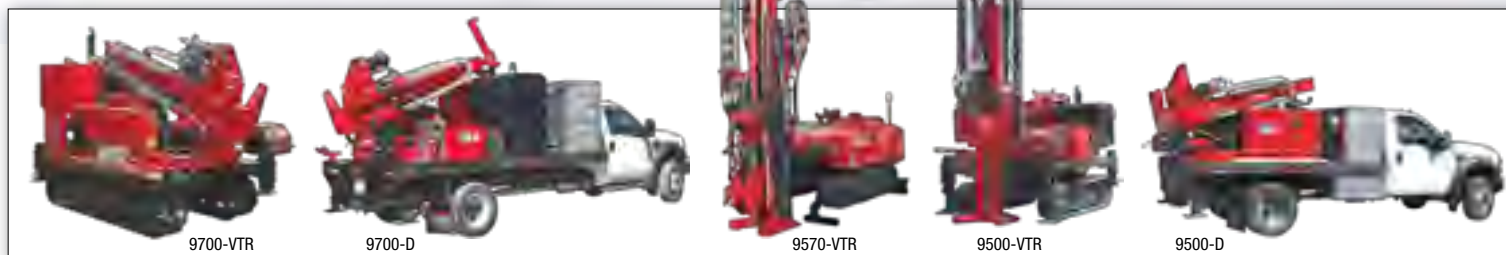
Direct push drilling generates significantly less drill cuttings than conventional drilling, which results in fewer drums or roll-off boxes and reduces disposal costs. Compared to conventional drilling, direct push technology is quicker to set up, easier to decontaminate, and simpler to maintain. The mobility and directional drilling capabilities of direct push rigs also allows for quicker sampling and data collection, which increases the number of sample points that can be collected during a subsurface investigation. Regular remedial injection activities can save on the initial labor capital expense of conventional remedial systems that require constant operation and maintenance. The total costs associated with the installation of prepacked monitoring wells are significantly less than the costs of installing a conventional monitoring well with a conventional drill rig.

## PowerProbe™ Applications

AMS PowerProbes™ can perform a variety of environmental drilling activities, including, but not limited to: soil, groundwater, and soil gas sampling; remedial activities; and geotechnical testing. Direct push rigs have become the primary method for installation of small-diameter prepacked screen groundwater monitoring wells. Some PowerProbe™ models offer hollowstem augering capabilities, and auger motors are available for most models. They also allow for the quick collection of confirmation borings for site closure; the creation of small diameter boreholes, minimizing surface and subsurface disturbance; and are capable of angle direct push borings.



9700-VTR



9700-VTR

9700-D

9570-VTR

9500-VTR

9500-D



Introducing the **NEW**



# PowerProbe™ 9570-VTR

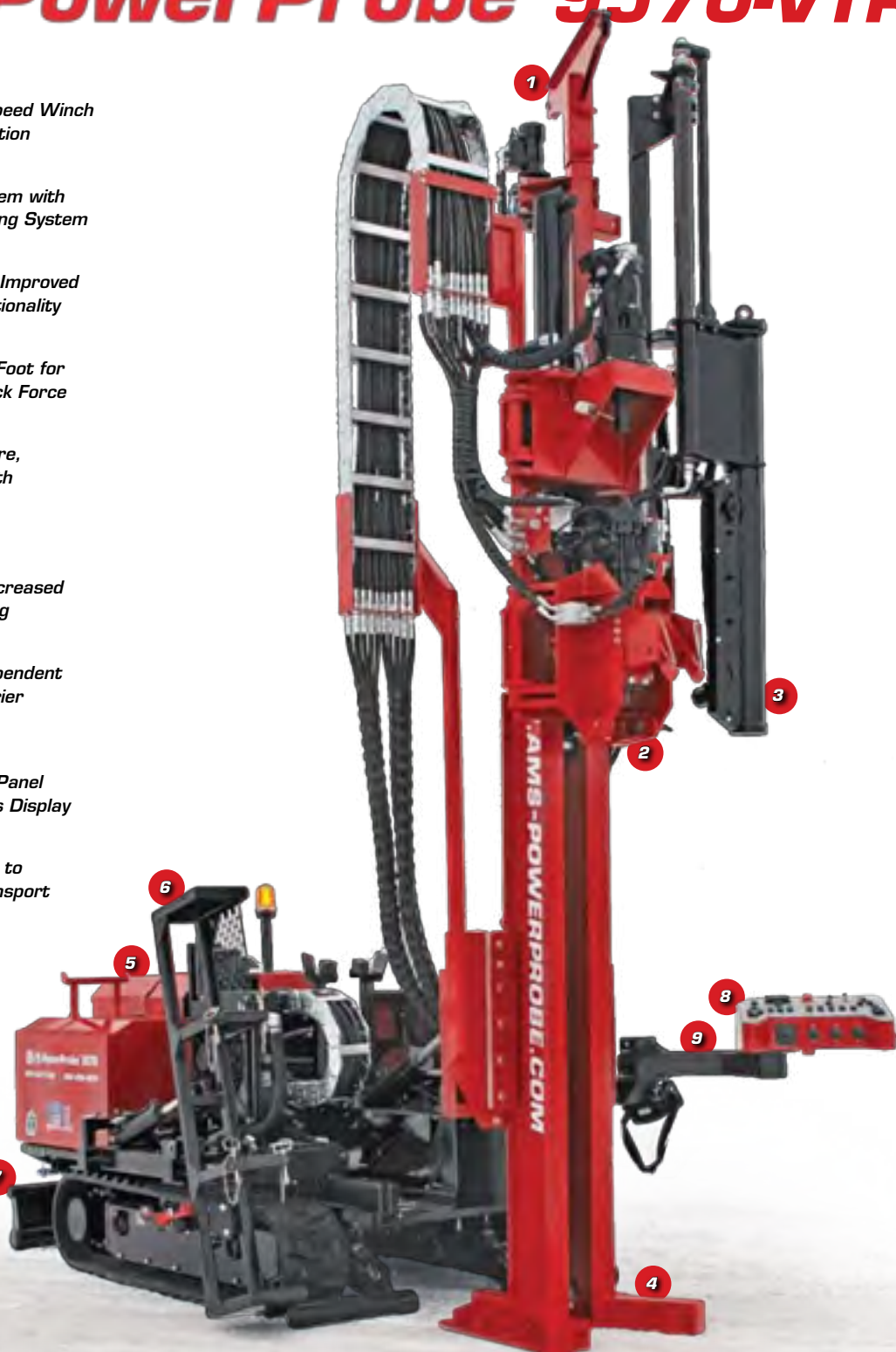
- 1 New 3,000 lb. Hydraulic Hi-Speed Winch Requires Less Operator Attention
- 2 New Auger and Hammer System with Hydraulic Swing-Out and Locking System
- 3 New Auto-Drop Hammer with Improved Hammering Capability & Functionality
- 4 Stronger Mast with a Larger Foot for Increased Stability and Pullback Force
- 5 NEW Tier 4, 60 HP John Deere, Liquid-Cooled Diesel Engine with Increased Diesel Fuel Storage (30 Gallons)
- 6 Hydraulic Tooling Rack with Increased Capacity for 4ft and 5ft Tooling
- 7 Dozer blade functions as independent outriggers and accessory carrier
- 8 Run Everything from a Newly Designed, Ergonomic Control Panel with Digital Engine Diagnostics Display
- 9 Stow-Away Control Panel Arm to Store Panel Inside During Transport

The hammer, auger motor, winch, and auto-drop can all be positioned over the same borehole without realigning or repositioning the rig

More Compact Height and Width

Fully Equipped Weight Under 12,000 lbs. with a Lower Center of Gravity

See pages 68-69 for details and technical information



## AMS PowerProbe™ 9700 Series

The track-mounted 9700-VTR and the truck or trailer-mounted 9700-D (diesel) model PowerProbes™ are powered by liquid-cooled, 100 HP diesel engines. The rigs come standard with a powerful 550 ft-lb. hydraulic hammer that allows you to drive 1 5/8in, 2 3/8in, and 3 1/2in direct push tooling as deep as 100ft depending on the lithology. The 80in probe stroke with 34,000 lb. downforce and 48,000 lb. pullback allows the operator to use 4ft or 5ft tooling. Both rigs also feature 24 ton pulling capacity, and are available with an optional 3,000 lb. hydraulic hi-speed winch. When lithologies are not conducive to direct push, you can use the 5,000 ft-lb., two-speed, hydraulic auger drive head for hollowstem augering. This feature enhances the direct push capabilities of the machines by allowing for telescopic drilling and sampling techniques. It also makes it easy to install conventional groundwater monitoring wells. Contact AMS customer service for more information.

### 9700 Series Standard Features

- 100 HP John Deere diesel engine with block heater (120v plug-in)
- 80in mast stroke with 34,000 lb. downforce and 48,000 lb. pullback
- 550 ft-lb. S-22 hydraulic hammer with 1800 BPM
- 5,000 ft-lb. hydraulic 2-speed auger motor
- Hydraulic system with 3000 PSI at 36 GPM
- Adjustable mast for angled probing & drilling
- Durable powder-coated finish, rubberized deck coating, and aluminum power track
- Enhanced operator control panel
- Auxiliary hydraulic quick-connect ports
- Spring-loaded pull yoke assembly
- Built-in tooling storage
- Hydraulic outriggers with removable pads
- Adjustable tooling chain vise
- Wireless remote with pendant cord backup and storage compartment for the VTR's track drives
- Emergency stop - shut off - system
- Electro-hydraulic valves with OEM joystick & detent controls
- Hydraulic oil pressure and temperature gauges
- 12-volt accessory outlet
- Hour meter
- Rapid rail mounting system for 9700-D
- Hand auger to pre-clear soil boring locations
- One year manufacture warranty

### 9700 Series Options & Accessories

- 3,000 lb. hydraulic variable hi-speed winch
- Quick pull system
- Receiver mount under-deck auger rack
- Customized sample preparation and decon station
- Customized equipment storage & tooling boxes

### 9700 Series Geotechnical Options

- Mast-mounted automatic drop hammer (SPT)
- CPT $\mu$  and Seismic CPT $\mu$
- Single & dual-point anchoring systems (CPT $\mu$ )



Dimensions shown for standard model.  
\*Optional accessories

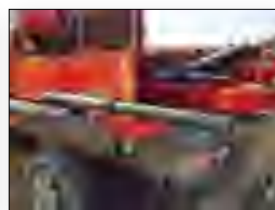
### AMS 9700-D PowerProbe™

The 9700-D (diesel) is a self-contained direct push rig that can be mounted to any flatbed, pickup bed, or trailer that meets the minimum size and weight requirements. The probe unit is mounted to the carrier vehicle using the AMS rail mounting system. The mounting system is the fastest, easiest way to guide your PowerProbe™ on and off of its carrier vehicle, or to transfer the probe from one vehicle to another. The 9700-D allows for hydraulic movement of the mast along three axes so you can easily align the probe with your tool string. With the addition of optional outriggers, it is easy to align the mast with the tooling to maximize your ability to reach your target depth.



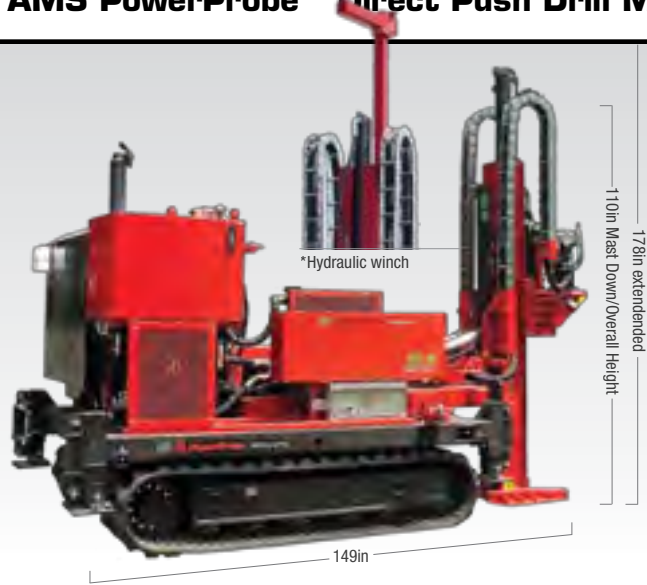
9500-D

**Every rig is custom-built to fit your needs! You can add tooling boxes, equipment storage, auger racks, sample preparation and decontamination stations, and more.**





Dimensions shown  
for standard model.  
\*Optional accessories



## AMS 9700-VTR PowerProbe™

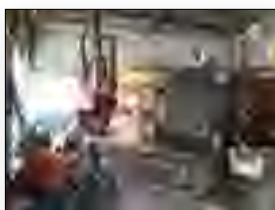
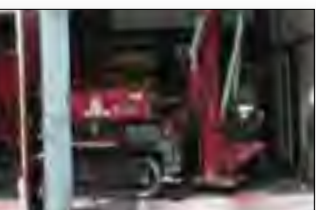
The 9700-VTR has a durable, heavy-duty undercarriage with a wide-base platform and 18in wide tracks – allowing it to carry more weight, increase torque, and reduce ground pressure. Hydraulic movement in three axes allows easy probe alignment with the tool string. The rig conforms with all essential health and safety requirements set out in European Directives using the appropriate conformity assessment procedures.



**Sample preparation stations, tooling decontamination stations, water tanks, hydraulic washers, and storage options are available. See pages 75-77 or call for details.**

### Tech Specs

	9700-VTR	9700-D
Horsepower	100 hp (liquid cooled)	
Engine RPM Setting	2,200 rpm	2,200 rpm
Power Source	Diesel Engine	Diesel Engine
Track High Speed	3.7 mph	-
Track Low Speed	2.5 mph	-
DIMENSIONS		
Weight	13,400 lb.	7,550 lb.
Overall Length	149in	137in
Overall Width	81in	74in
Overall Height (folded)	110in (104in)	110in (66in)
Deck Height	32in	-
Individual Track Width	18in	-
Mast Extended Height	178in	178in
Probe Stroke	80in	80in
HYDRAULICS		
Double Pump	small pump - 2,400 psi - 12 gpm	
Hydraulic Oil Pressure	large pump - 3,000 psi	
Hydraulic Flow Rate	36 gpm	36 gpm
Hydraulic Oil Cooler	31,000 BTU (double)	
Hydraulic Oil Capacity	80 gal	80 gal
Fuel Tank Capacity	30 gal	30 gal
HYDRAULIC OPERATION		
Down Force	33,000 lb.	33,000 lb.
Pull-Up Force	48,000 lb.	48,000 lb.
Head Travel Rate Up	10-14 sec	10-14 sec
Head Travel Rate Down	8-10 sec	8-10 sec
In/Out Travel	20in	20in
Horizontal Traverse	68.5in	68.5in
Foot Vertical Stroke	52in	52in
Probe Angles	30° to 102°	30° to 100°
Hydraulic Hammer	S-22 - 550 ft-lb. 1,800 bpm (adjustable)	
5,000 ft-lb. Auger Drive Head with 2-speeds:	Hi - 150 rpm, Low - 55 rpm	Hi - 150 rpm, Low - 65 rpm





## AMS PowerProbe™ 9500 Series

9500 series PowerProbes™ combine high-powered direct push and auger capabilities with operator-friendly engineering. While maintaining many of the same standard features of our larger 9700 series rigs, the 9500 models have smaller carriers that allow for access into tighter areas and have smaller footprints. All 9500 PowerProbes™ feature an S-21 201 ft-lb. hydraulic hammer with an adjustable 2200 BPM.

The new 9570-VTR PowerProbe™ is powered by a tier 4, 60 HP John Deere liquid-cooled diesel engine with increased fuel storage. It also has a new winch, auto-drop hammer, control panel, and more.

The track-mounted 9500-VTR all-terrain model can easily gain access to on or off-road sites, and with a surface load of only 4.9 psi, the rig can position on softer surfaces with relative ease.

The 9500-D (diesel) has standalone power sources and can be mounted on trucks or trailers. It offers a wide array of tooling and equipment storage options that allow you to keep your operation mobile without support vehicles.

### 9500 Series Standard Features

- Adjustable mast for angled probing and drilling
- Spring-loaded pull yoke
- Enhanced control panel
- Durable powder-coated finish and power track
- S-21 201 ft-lb. hydraulic hammer
- Hydraulic oil pressure and temperature gauges
- Emergency stop system
- Wireless remote with pendant backup
- Hand auger to pre-clear soil boring locations
- 12-volt accessory outlet
- Hour meter
- Regen system
- Tooling chain vise
- Tooling storage
- One year warranty

### NEW 9570-VTR Standard Features

- Tier 4, 60 HP John Deere liquid-cooled diesel engine accessible via engine access hood
- Hydraulic outriggers and multi-purpose dozer blade
- 80in standard probe stroke
- 4,000 ft-lbs. auger torque
- New automatic drop hammer
- More water-tight and ergonomic control panel with more controls and a pivot-put-away option
- Wireless remote with pendant backup
- Storage compartment for tools and remote
- Lockable tooling box with multiple compartments
- Electro-hydraulic valves with manual backups
- Increased hydraulic capability (3,000 psi at 32 gpm)
- 40 gallon hydraulic oil storage
- 30 gallon diesel tank
- Hammer, auger motor, winch, and auto-drop can all be positioned over the borehole without realigning or repositioning the rig
- More user-friendly and failsafe 3,000 lb. hydraulic variable hi-speed winch
- Hydraulic-actuated upright rod rack

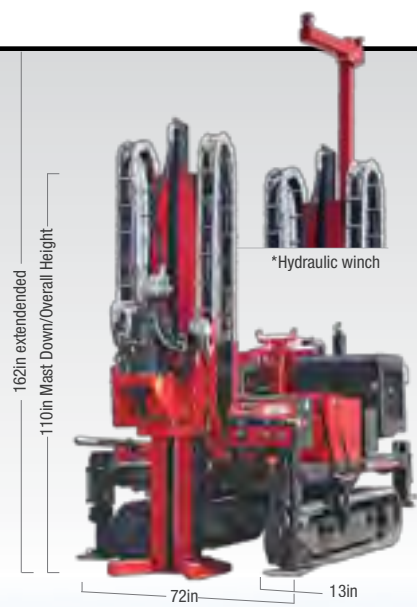
### 9500 Series Options & Accessories

- 2,400 ft-lb. or 3,400 ft-lb. auger drive head
- 3,000 lb. hydraulic variable hi-speed winch
- Customized sample preparation and decon station
- Customized equipment storage and tooling boxes

### 9500 Series Geotechnical Options

- Mast-mounted auto drop hammer (SPT)
- CPT<sub>μ</sub> and Seismic CPT<sub>μ</sub>
- Single & dual-point anchoring systems (CPT<sub>μ</sub>)

Dimensions shown for standard model.  
\*Optional accessories



### AMS 9500-VTR PowerProbe™

The 9500-VTR is powered by a liquid-cooled 52 HP diesel engine and includes a 201 ft-lb. hydraulic hammer and a standard 72in probe stroke. An optional 80in probe stroke is available to allow for the use of 5ft tooling. The regen system allows for faster upward travel, and the rig has built-in storage for your direct push tooling and other equipment. You can add either a 3,400 ft-lb. or 2,400 ft-lb. auger drive head to combine the rig's direct push functionality with powerful hollowstem augering capability. The addition of an auger drive head allows the user to perform direct push activities through their hollowstem augers. See pages 94-95 for more information.



**9500-VTR**

**The track-mounted 9500-VTR and 9570-VTR all-terrain model PowerProbes™ can gain access to on and off-road sampling points.**



Dimensions shown  
for standard model.  
\*Optional accessories



## NEW PowerProbe™ 9570-VTR

The new 9570-VTR PowerProbe™ is powered by a tier 4, 60 HP John Deere liquid-cooled diesel engine with increased fuel storage (30 gallons). The new 4,000 ft-lb. auger and 201 ft-lb. hammer have hydraulic pivot and locking systems, and the hammer, auger motor, winch, and auto-drop can all be positioned over the same borehole without realigning or repositioning the machine. A standard 80in probe stroke allows for the use of 4ft or 5ft tooling. The new auto-drop hammer has improved hammering capability and functionality, and the new 3,000 lb. hydraulic hi-speed winch requires less operator attention. The rig also features a stronger mast with a larger foot for increased stability, and it has a more compact height and width – as well as a fully equipped weight under 12,000 lbs. with a lower center of gravity. We have added a new hydraulic tooling rack with increased rod carrying capacity, a multi-functioning dozer blade, and a new control panel that allows you to run everything from a single position.

## AMS 9500-D PowerProbe™

The 9500-D (diesel) PowerProbe™ runs on a 32 HP liquid-cooled diesel engine. It comes standard with a 201 ft-lb. hydraulic hammer for direct push penetration, and it can also utilize hollowstem augers with your choice of two available auger drive heads. This model comes standard with the AMS rail mounting system that allows you to easily transfer the probe to another carrier vehicle and a 72in probe stroke that will allow for the use of 4ft tooling. An 80in probe stroke is also available to allow the use of 5ft tooling.



## Tech Specs

	9570-VTR	9500-VTR	9500-D
Horsepower	60 hp (liquid cooled)	52 hp (liquid cooled)	32 hp (liquid cooled)
Engine RPM Setting	2,400 rpm	2,400 rpm	3,000 rpm
Power Source	Tier 4 John Deere Diesel Engine	Diesel Engine	Diesel Engine
Track Speed	0 to 2.8 mph	2.4 mph, 1.5 mph	-
DIMENSIONS			
Weight	Under 12,000 lb.	8,400 lb.	4,800 lb.
Overall Length	175in	126in	124in
Overall Width	64in	72in	62in
Overall Height (folded)	110in (98in)	110in (92in)	110in (65in)
Deck Height	-	29in	-
Individual Track Width	13in	13in	-
Mast Extended Height	198in	162in	162in
Extended Winch Height	202in	-	-
Probe Stroke	80in	72in (Optional 80in)	72in (Optional 80in)
HYDRAULICS			
Hydraulic Oil Pressure	3,000 psi	2,400 psi (2x pump)	2,600 psi
Hydraulic Flow Rate	32 gpm	26 gpm	17 gpm
Hydraulic Oil Cooler	90,000 BTU (Single)	18,000 BTU (Single)	18,000 BTU (Single)
Hydraulic Oil Capacity	40 gal	44 gal	20 gal
Fuel Tank Capacity	30 gal	16 gal	-
HYDRAULIC OPERATION			
Down Force	41,000 lb.	35,300 lb.	29,000 lb.
Pull-Up Force	55,000 lb.	47,500 lb.	42,000 lb.
In/Out Travel	10in	20in	20in
Horizontal Traverse	10in	68.5in	47in
Foot Vertical Stroke	20in	52in	52in
Probe Angles	30° to 102°	30° to 102°	30° to 100°
Hydraulic Hammer	S-21 - 201 ft-lb. - 2,200 bpm (adjustable)		
Auger Drive Head	4,000 ft-lb. 150 - Hi rpm 55 - Low rpm	*Optional 3,400 ft-lb. or 2,400 ft-lb. (See page 75 for more information).	



## AMS PowerProbe™ 9300 Series

The 9300 series PowerProbes™ utilize smaller carrier vehicles than the 9700 and 9500 models, but they still feature the same 201 ft-lb. hydraulic hammer and 72in probe stroke (optional 80in stroke). The probe unit can be mounted to a variety of skids and tractors that offer a wide range of other uses.

The 9300-SK can be detached from its skid steer loader so you can use the skid and its attachments separately. You can use the optional bucket to clear brush and gain access to your sampling points. You can also move your materials using the optional pallet forks.

The 9300-TR can be attached to the rear of tractors that meet the size and power requirements of the probe and included options. While the probe cannot be detached from the tractor, you can use the tractor's front bucket option to move materials, clear paths, and haul materials to your sampling points.

### 9300 Series Standard Features

- Adjustable mast
- S-21 201 ft-lb. hydraulic hammer
- Durable powder-coated finish
- Aluminum power track
- Electro-hydraulic valves – in-out, side-side, and tilt
- Spring-loaded pull yoke
- Enhanced control panel
- Emergency stop system
- Tooling storage
- Tooling chain vise
- Quick disconnect kit
- Auxiliary hydraulic hook-up kit (carrier only)
- Skid quick mount plate
- Hydraulic oil pressure gauges
- 12-volt accessory outlet
- Hour meter
- Hand auger to pre-clear soil boring locations
- One year manufacture warranty

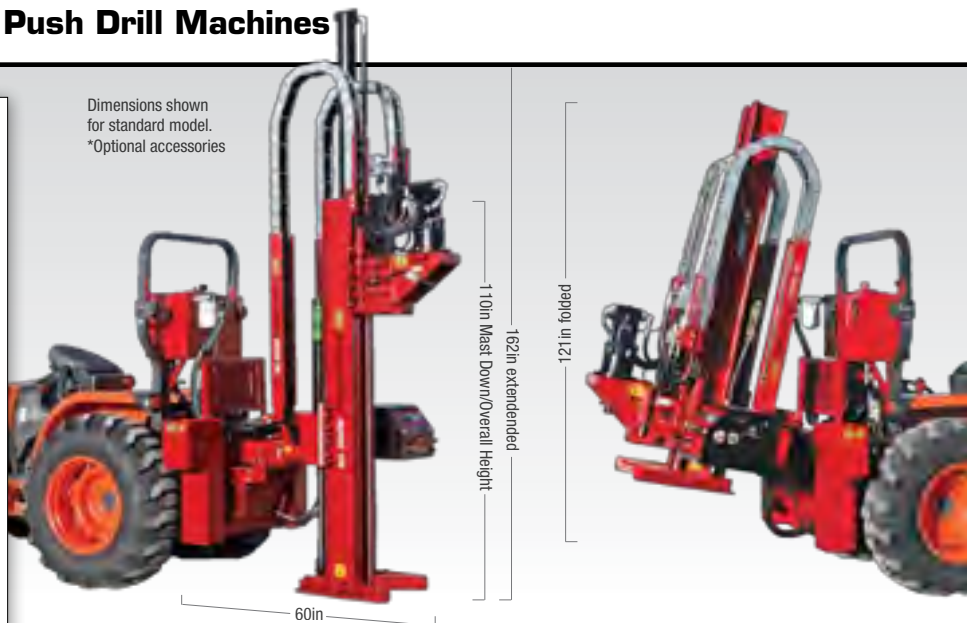
### 9300 Series Options & Accessories

- 2,400 ft-lb. or 3,400 ft-lb. auger drive head
- 3,000 lb. Hydraulic Variable Hi-Speed Winch
- Auxiliary Hydraulic Quick Connects
- Regen System

### 9300 Series Geotechnical Options

- CPT<sub>μ</sub> and seismic CPT<sub>μ</sub>
- Single & dual-point anchoring systems (CPT<sub>μ</sub>)

Dimensions shown  
for standard model.  
\*Optional accessories



### AMS 9300-TR PowerProbe™

The 9300-TR comes standard with the 201 ft-lb. hydraulic hammer, and it has a 72in stroke to allow for the use of 4ft tooling. This small, compact probe was designed for shallow, high-volume direct push sampling activities, such as pipeline and refinery cleanup sites. Its rubber tires and four-wheel drive capabilities provide easy access to sites, as well as quick movement about the site. Additionally, some models provide the ability to carry materials and clear paths with the tractor's front bucket. For situations where you need to install conventional groundwater monitoring wells, you can add your choice of two auger drive heads. A 3,400 ft-lb. and a 2,400 ft-lb. drive head are also available.

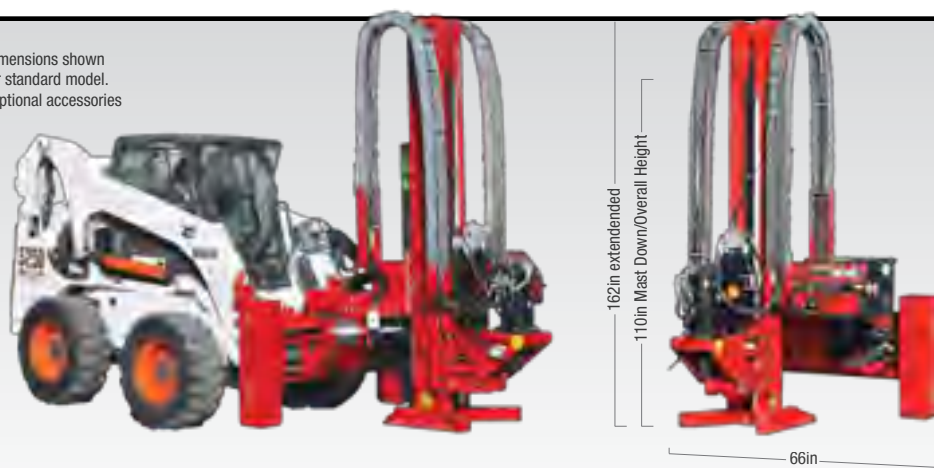
The standard 9300-TR can be mounted to the Kubota LA854, and other tractor models with similar size and capabilities. Carrier vehicle requirements depend on the options chosen. A 40 HP tractor (minimum) is required. Contact AMS for more information.



*The compact 9300-TR is used for shallow, high-volume direct push sampling, including pipeline and refinery cleanup sites.*



Dimensions shown  
for standard model.  
\*Optional accessories



## AMS 9300-SK PowerProbe™

The 9300-SK uses a compact, skid-steer loader as the carrier vehicle – giving it the ruggedness and maneuverability to reach sites even when access is limited by obstacles or rough terrain. The probe also utilizes the hydraulic power from skid's power components.

This versatile utility unit is heavy enough for tough probing and features complete hydraulic movement of the probe – including extension in and out from the carrier unit, vertical and lateral movement, as well as 25 degree tilt for angle probing capabilities.

The rod boxes help to stabilize the probe when pushing or drilling, and they will support the unit when it is detached from the skid-steer carrier. The simple mounting and removal of the probe allows you to use the skid for other tasks, or to easily ship it to another location separately. You can use the optional bucket to clear brush and gain access to sampling points. You can also move materials using the optional pallet forks.

The 9300-SK comes standard with the 201 ft.-lb. hydraulic hammer, and it has a 72in stroke to allow use of 4ft tooling, while also providing the necessary space for attaching and removing tools. A Bobcat S-250 or a model of similar size and capabilities is recommended.



### Tech Specs

	9300-TR	9300-SK
Horsepower (Min. Required)	40 hp	40 hp
Required Lifting Capacity	-	+2,500 lbs.
DIMENSIONS		
Weight	2,700 lb	2,500 lb
Overall Length	74in	69in – 73in
Overall Width	60in	66in
Overall Height (folded)	110in (121in)	110in (124in)
Mast Extended Height	162in	162in
Probe Stroke	72in (Optional 80in)	72in (Optional 80in)
HYDRAULICS		
Hydraulic Oil Pressure	2,400 psi	2,400 psi
Hydraulic Flow Rate	20 gpm	16 gpm (required)
Hydraulic Oil Cooler	18,000 BTU (Single)	-
Hydraulic Oil Capacity	30 gal	vehicle dependent
HYDRAULIC OPERATION		
Down Force	29,000 lb	29,000 lb
Pull-Up Force	41,000 lb	41,000 lb
Head Travel Rate Up	17 sec	16 sec
Head Travel Rate Down	10 sec	13 sec
In/Out Travel	12in	12in
Horizontal Traverse	26.5in	26.5in
Foot Vertical Stroke	36in	36in
Probe Angles	80° to 100°	80° to 100°
Hydraulic Hammer	S-21 - 201 ft.-lb. - 2,200 bpm	
*Optional Auger Drive Heads	*3,400 ft.-lb. or 2,400 ft.-lb. (See page 75 for details).	



Choose between 2,400 ft.-lb.  
and 3,400 ft.-lb. auger motors.



9300 series control panels  
include an emergency shut off.



Gain access to remote sampling  
points with minimal disturbance  
by using rubber tracks or tires.  
Contact AMS for more details.



## AMS PowerProbe™ 9100 Series

The small footprint of the 9100-VTR-D (diesel) and 9100-VTR-P (propane) are ideal for residential areas, tanks, farms, and gated areas. They can also be air-lifted into remote locations and run by remote control.

The 9100-SK uses a portable and maneuverable track system so the probe can be easily removed to allow the use of the accessories on the carrier vehicle such as the bucket, pallet forks, and backfill blade.

The 9300-TR has rubber tires that provide easy access to sites. Tractor models with front buckets also provide the ability to carry materials and clear paths.

The 9100-P is perfect for use in confined spaces or inside buildings where vehicle-mounted probes cannot fit. It can be powered by another PowerProbe™ using the included auxiliary hydraulic hook-up kit, or it can be powered by the optional, portable hydraulic power unit.

The 9100-ATV and 9100-AG allow you to use 4x4 or 6x6 UTVs to get into remote jobsites to perform shallow direct push applications.

### 9100 Series Standard Features

- Durable powder-coated finish
- Anodized metal power track
- Spring-loaded pull yoke
- Enhanced control panel
- 50 ft-lb. hydraulic hammer
- Hydraulic oil pressure gauge
- Hand auger to pre-clear soil boring locations
- One year manufacture warranty

### 9100 Series Options & Accessories

- 90 ft-lb. or 201 ft-lb. hydraulic hammer
- 1,000 ft-lb. auger drive head
- Regen System



### AMS 9100-P PowerProbe™

The AMS PowerProbe™ 9100-P is a portable direct push rig designed to access remote, narrow, and other hard to reach sampling locations. It is perfect for use in confined spaces or buildings. The probe is powered using either a portable hydraulic power unit (sold separately), or by connecting it to another PowerProbe™ using the included auxiliary hydraulic hook-up kit. The 9100-P comes with a 50 ft-lb. hydraulic hammer, or it can have an optional 90 ft-lb. hammer. Additionally, the hammer can be substituted with a 1,000 ft-lb. auger drive head to allow for small-diameter hollowstem augering.



### AMS 9100-SK PowerProbe™

The 9100-SK is the most portable and maneuverable AMS track-mounted probe available. It has a 36in clearance width, and the rugged rubber tracks keep the unit moving when soil conditions get soft, wet, or muddy with minimal disturbance to the work site. The probe can easily be removed to allow the use of the carrier vehicle and its accessories such as the bucket, pallet forks, and backfill blade. It also features side-to-side probe movement.



### AMS 9100-TR PowerProbe™

The 9100-TR offers many of the same benefits of the 9300-TR. It was designed for the John Deere 3120 tractor with quick disconnect capabilities. The probe features an adjustable mast with up-down, side-to-side, and tilt movement. It has a variety of tooling storage options, and it can be mounted to tractors that meet the size and power requirements of the unit and the chosen options. A 29 HP tractor (minimum) is required.



**The 9300-SK features rubber tracks that help minimize ground disturbance, and a 36in clearance width for accessing tight areas.**







130in extended  
83in Mast Down/Overall Height



\*Propane model available

Dimensions shown  
for standard model.  
\*Optional accessories

## AMS 9100-VTR-D & 9100-VTR-P PowerProbes™

The 9100-VTR-D (diesel) and 9100-VTR-P (propane) are rugged, compact probing units that feature a 50 ft.-lb. hydraulic hammer on an adjustable mast that allows for angled probing. They are able to maneuver through rough terrain, and easily gain access to tight, confined, and enclosed spaces. Both rigs can navigate through standard, 36in doorways, and gated openings, as well as into areas with low overhead clearance. They also feature rubber tracks that help minimize ground disturbance. Utilizing their included transport hooks, these machines can also be air-lifted into remote job locations.

The small footprint of these rigs make them perfect for small residential areas, tanks, farms, and gated areas. Additionally, propane's clean burning properties help to maintain air quality and increases safety with a minimal flammability range.



9100 Series  
control panel



Manual track  
drive levers



Teathered  
remote  
pendant



Engine start &  
control panel

### Tech Specs

Horsepower	26 hp	31 hp	29 hp (Min)	carrier dependent	20 hp (Min)
Engine rpm Setting	2,200 rpm	2,200 rpm	2,200 rpm	2,100 rpm	
Power Source *Optional Power Source	Vanguard 3LC-950D	Vanguard 3LC950P	carrier dependent	carrier dependent	*Hydraulic Power Unit.
Fuel Capacity	10 gal	Two 20 lb. Tanks (Liquid Propane)	carrier dependent	carrier dependent	5 gal
Track Speed	2.8 mph	2.8 mph	-	carrier dependent	-
DIMENSIONS					
Weight	3,100 lb.	3,100 lb.	900 lb. (w/o carrier)	900 lb. (w/o carrier)	900 lb.
Overall Length	84in	84in	193in w/ tractor	26in	30in
Overall Width	34in	34in	73in w/ tractor	44in	30in
Overall Height (folded)	83in (66in)	83in (66in)	83in	83in	73in
Mast Extended Height	130in	130in	130in	130in	122in
Probe Stroke	60in	60in	56in	56in	52in
HYDRAULICS					
Hydraulic Oil Pressure	2,100 psi	2,100 psi	2,500 psi	2,000 psi	2,000 psi
Hydraulic Flow Rate	10 gpm	10 gpm	16 gpm	13 gpm	10 gpm
Hydraulic Oil Cooler	18,000 BTU (single)			carrier dependent	18,000 BTU (single)
Hydraulic Oil Capacity	15 gal	15 gal	25 gal	carrier dependent	12 gal
HYDRAULIC OPERATION					
Down Force	19,950 lb.	19,950 lb.	16,800 lb.	19,000 lb.	19,000 lb.
Pull-Up Force	26,250 lb.	26,250 lb.	25,000 lb.	25,200 lb.	24,000 lb.
Head Travel Rate Up	15 sec	15 sec	6 sec	21 sec	15.5 sec
Head Travel Rate Down	12 sec	12 sec	9 sec	16 sec	12 sec - system pressure 2,000 psi
In/Out Travel	14in	14in	-	-	-
Side-to-Side Movement	10in	10in	10in	10.5in	-
Foot Vertical Stroke	32in	32in	32in	-	-
Hydraulic Hammers *Optional Hammers	SK-58 - 50 ft.-lb. - 1,200 bpm *BR 87 - 90 ft.-lb. - 1,100 bpm *S-21 201 ft.-lb. - 2,200 bpm				
*Optional Auger Drive Heads	*Optional 1,000 ft.-lb. (See page 75 for details).				

**Gain access to indoor sampling sites through standard 36in doorways.**

# AMS PowerProbe™ Direct Push Drill Machines



## AMS 9100-ATV PowerProbe™

The 9100-ATV PowerProbe™ allows you to use a UTV-style 4x4 or 6x6 to get into remote jobsites for shallow direct push applications with 4ft direct push extensions. This model comes standard with our 50 ft-lb. hydraulic hammer and is capable of sampling in almost any type of soil condition. An optional 90 ft-lb. or 201 ft-lb. hydraulic hammer can be fitted to ATVs that meet the minimum size and capability requirements. The probe can be set up to quickly detach from the UTV using a sliderail system. This makes it easy for you to store the unit or transport it into remote locations. It also allows you to use your ATV for other tasks without the weight of the probe on the machine.

### Standard Features

- Durable powder-coated finish
- Aluminum power track
- Spring-loaded pull yoke
- Enhanced control panel
- 50 ft-lb. hydraulic hammer
- Hydraulic oil pressure gauge
- Tooling storage & chain vise
- Adjustable mast for angled probing
- One year manufacture warranty

## AMS 9100-AG PowerProbe™

The 9100-AG is the newest model in the AMS PowerProbe™ line up. It is used for agricultural and environmental sampling. This model can be mounted on most standard UTV units that meet the size requirements. It may also be mounted on small flat-deck trailers and towed by your UTV or pickup. The 9100-AG is powered by a self-contained 13 HP Briggs and Stratton gas engine with electric start. This model was designed with a collapsible mast that provides a transport height of 80in – which allows the probe to fit inside most enclosed trailers.



*The quick-mount sliderail system for easy storage allows you to use your ATV for other tasks.*



*The narrow width allows you to reach almost any location and to access low overhead locations.*



*Its small frame allows the user to reach new job locations.*



*ATV rigs can angle bore in tight locations.*

### Tech Specs

### 9100-ATV 9100-AG

Horsepower (Min. Required)	22 hp	22 hp
DIMENSIONS		
Weight	1,200 lbs.	1,200 lbs.
Overall Length	43in	42in
Overall Width	46.5in	46in
Mast Extended Height	72.5	135in
Probe Stroke	60in	60in
HYDRAULICS		
Hydraulic Oil Pressure	2,000 psi	2,000 psi
Hydraulic Flow Rate	12 gpm	8 gpm
Hydraulic Oil Capacity	10 gal	20 gal
HYDRAULIC OPERATION		
Down Force	19,000 lbs.	9,800 lbs.
Pull-Up Force:	24,000 lbs.	7,400 lbs.
Head Travel Rate Up	10 sec	10 sec
Head Travel Rate Down	12 sec	12 sec
Probe Angles	30°	30°
Hydraulic Hammers	SK 58 – 50 ft-lb 1,200 bpm	





## Hydraulic Hammers

AMS PowerProbes™ use a hydraulic hammer to advance direct push tooling into the ground. Six different hydraulic hammers are available. AMS 9700, 9500, and 9300 models feature an S-21 201 ft-lb. hydraulic hammer. The optional S-22 hammer is available for use with 9700-series models. The standard 9100 models use the SK-58, or they can be equipped with the optional BR-87.

\*Note: Hydraulic hammer figures are expressed as impact class, not "CIMA" rated actual energy.

### Direct Push Hammer Anvils

50484	S-21 Hammer Anvil	\$ 240.00
50485	S-22 Hammer Anvil	\$ 260.00
5004.15	SK-58 Hammer Anvil	\$ 95.00
5004.16	BR-87 Hammer Anvil	\$ 165.00
5004.12	OKB-300 Hammer Anvil	\$ 225.00
5004.18	MB-156 Hammer Anvil	\$ 160.00
5004.20	MB-356 Hammer Anvil	\$ 260.00
5004.21	AR-48 Hammer Anvil	\$ 219.00
5004.22	AR62 Hammer Anvil	\$ 219.00



Hydraulic Hammer	SK-58 50 ft-lb.	BR-87 90 ft-lb.	S-21 201 ft-lb.	S-22 500 ft-lb.
Impact Energy	50 ft-lb. (68 j)	90 ft-lb. (122 j)	201 ft-lb. (272 j)	550 ft-lb. (746 j)
Percussion Rate	1,200 bpm	1,100 bpm	2,200 bpm	1,800 bpm
Torque	45 ft-lb.	n/a	n/a	n/a
Hydraulic Pressure	1,500-2,000 psi (103-138 bar)	1,500-2,000 psi (103-138 bar)	1,800-2,100 psi (124-145 bar)	1,800-2,100 psi (124-145 bar)
Hydraulic Flow Rate	7 - 9 gpm (26.5-34 lpm)	7 - 9 gpm (26.5-34 lpm)	11 - 13 gpm (42-49 lpm)	16 - 18 gpm (60-68 lpm)
Weight	67 lb. (30.36kg)	75 lb. (33.9kg)	175 lb. (79.4kg)	210 lb. (95.3kg)

	SK-58	BR-87	S-21	S-22
9700-VTR	-	-	-	standard
9700-D	-	-	-	standard
9570-VTR	-	-	standard	-
9500-VTR	-	-	standard	-
9500-D	-	-	standard	-
9300-SK	-	-	standard	-
9300-TR	-	-	standard	-
9100-VTR-D	standard	option	option	-
9100-VTR-P	standard	option	option	-
9100-SK	standard	option	option	-
9100-TR	standard	option	option	-
9100-P	standard	option	-	-
9100-ATV	standard	option	option	-
9100-Ag	standard	option	-	-

## Hydraulic Hi-Pressure Washer

Bolted right to your PowerProbe™, this washer is easily accessible for decontamination purposes, and it is excellent for use in the field. It includes a retractable hose reel, 50 ft. steam hose, wand, assortment of nozzles, and pressure and flow control.



## Hydraulic Auger Drive Heads

AMS offers four different auger drive heads, all of which are permanently plumbed, and feature forward and reverse rotations. The hydraulic mast provides lateral and horizontal movement for easy alignment of hollowstem augers. The 2,400, 3,400, and 5,000 ft-lb. auger drive heads are 2-speed and offer low auger torque at high speed and high auger torque at low speed. The auger drive head gives the PowerProbe™ more versatility with hollow and solid stem augering capabilities for easier subsurface penetration.

Auger Drive Head	1,000 ft-lb.	2,400 ft-lb.	3,400 ft-lb.	5,000 ft-lb.
Rotational Torque High Speed	1,000 ft-lb. (1,355 nm) at 110 rpm	1,200 ft-lb. (1,356 nm) at 150 rpm	1,200 ft-lb. (1,356 nm) at 150 rpm	2,500 ft-lb. (3,390 nm) at 150 rpm
Rotational Torque Low Speed	-	2,400 ft-lb. (3,254 nm) at 55 rpm	3,400 ft-lb. (3,254 nm) at 35 rpm	5,000 ft-lb. (6,779 nm) at 55 rpm

	1,000 ft-lb.	2,400 ft-lb.	3,400 ft-lb.	5,000 ft-lb.
9700-VTR	-	-	-	standard
9700-D	-	-	-	standard
9570-VTR	-	option	standard	-
9500-VTR	-	option	option	-
9500-D	-	option	option	-
9300-SK	-	option	option	-
9300-TR	-	option	option	-
9100-VTR-D	option	-	-	-
9100-VTR-P	option	-	-	-
9100-SK	option	-	-	-
9100-TR	option	-	-	-
9100-P	option	-	-	-
9100-ATV	option	-	-	-
9100-Ag	-	-	-	-

## Retractable Hose Reels

Retractable hose reels provide convenient hose storage for your high or low-pressure wash systems. They are coiled on a spring-loaded reel making it easier to extend and retract. See page 76 for optional water tanks.





## Geotechnical Auto-Drop Hammer

AMS mast-mounted or deck-mounted auto-drop hammers can be added to your 9700 or 9500 series PowerProbe™, or to most drill rigs with an open, flat platform. They can be used to meet ASTM Method D 1586, a standard test method for penetration and split-barrel sampling of soils, commonly known as SPT. The hydraulic in-and-out adjustment and leveling feature makes it easier to comply with the ASTM method. It is operated from an electric pendant control box, making it a safe and user friendly add-on that allows the operator to safely monitor the advancement of the sampler while remaining away from the impact of the hammer. The auto-drop can be placed in the sampling position without moving the carrier vehicle after the drilling has been completed.

## Hi-Speed Winch & Regen System

The 3,000 lbs. hydraulic hi-speed winch allows for quick removal and lowering of tooling. You can adjust its speed for more efficiency and to provide a safer work site. It is available on 9300, 9500, and 9700 series PowerProbes™.

The regen system almost doubles the speed of the upstroke retraction on the PowerProbe™ drill head – which helps increase speed and production for your crew. The regen is available on most PowerProbe™ models. Contact AMS for more information.



## Geotechnical Cathead System

The AMS cathead system is the perfect solution for companies who need to do geotechnical testing on a tight budget. An operator can set it up and have it operating in a matter of minutes. The AMS cathead system assembly includes a hydraulic operated spool and a 140 lb. geotechnical hammer. It allows the user to perform geotechnical testing such as SPT. The AMS cathead system is available for use with AMS 9700 and 9500 series PowerProbes™ as well as the 9300-SK.

## Water Tanks

For fresh and gray water storage, choose up to a 300 gallon storage tank for your custom support system. Water storage tanks are ideal for decontamination and clean up. Hydraulic hi-pressure washers and retractable hose reels are also available (page 75). Contact AMS customer service for details.



## Tool Box & Tooling Storage

Locking tool boxes will keep all of your tooling and other equipment safe and secure. They can be mounted on top of truck beds or under the body of flatbed trucks. The light-weight, aluminum construction requires little maintenance. AMS offers three standard tool boxes as well as custom sizes to fit your specific needs. All tool boxes can be configured with dividers for convenient storage of direct push tooling and other equipment.



## Auger Storage Racks

AMS auger racks provide convenient storage locations that allow easy access to your augers. The racks are custom-mounted to fit your pickup and flatbed. AMS also offers roll-in mounts that make augers more accessible.



## Folding Stands for Direct Push Tooling

The AMS foldable tooling stand allows you to organize your direct push tooling and position it within easy reach. A flat platform on the tool stand is an additional time-saver that provides a place for setting the small items that are needed as you work. It is powder-coated and folds up for easy storage and mobility.

### Foldable Tooling Stand

Part#	Item	Weight	Price
5052.30	Folding Tooling Stand	40.0 lb	\$

## Tool Carrier

The tooling carrier will keep your small tooling items clean from dirt, mud, or snow, and it allows you to store your tools closer to your work site. It is powder-coated to reduce rusting and withstand heavy-duty use. The handle can be folded for trouble-free storage. A removable liner ensures efficient, easy cleaning. It includes the tool carrier, and four cleaning brushes.



### Foldable Tooling Stand

Part#	Item	Weight	Price
5052.35	Tool Carrier & Brushes	18.0 lb	\$



## Customized Preparation & Decontamination Stations

Efficient field work is the mark of a professional and sample preparation and decontamination can't be overlooked. But not every professional works the same way or needs the same thing. That is why AMS has designed several options for your sample preparation and decontamination needs. With options ranging from portable to mounted, we're confident that we have a station that will make your field work more efficient. Contact AMS for more information on sample preparation and decontamination stations, as well as for other options and accessories.



## Portable Sample Preparation Station

The AMS portable sample preparation station was designed to make field work easier. Similar to the truck-mounted station (right), the portable sample preparation and decontamination station can handle 1 1/2in x 4ft liners. Pulling the accompanying dual-blade liner splitter (below) along the liner exposes the sample. The exposed sample may then be tested with a portable sniffer-type PID or FID. Cut the other side of the liner and place the remaining liner with the sample in a v-tray for physical examination and collection. Up to five samples can be stored temporarily on the sample preparation station. The station includes transport handle, aluminum frame, folding legs, and dual-blade liner splitter.

### Portable Sample Prep Stations

Part#	Item	Weight	Price
5052.20	Portable Sample Preparation Station	38.0 lb	\$

## Dual-Blade Liner Splitter

Made to accompany the AMS preparation stations, the dual-blade liner splitter makes cutting of plastic liners quick and easy. Simply pull the splitter along a liner to expose the sample for testing or physical examination. The dual-blade liner splitter includes complete aluminum body, dual-blade, and a splitter with 10 blades. Extra hook blades are available.

### Dual-Blade Liner Splitter

Part#	Item	Price
52364	Dual-Blade Liner Splitter (1 1/2in Liners Only)	\$
18302	Liner Splitter Hook Blades (package of 100)	\$



*The lightweight, aluminum construction offers smooth movement of the station.*

## Truck-Mounted Sample Prep & Decon Station

The AMS truck-mounted pull-out station is both a sample preparation and decontamination station. Located under a flatbed vehicle or trailer, it is supported by two slide channels with rollers and can easily be locked into position for safe transport to and from work sites.

The sample preparation area was designed for quick and easy cutting of plastic liners. It can handle liners used with today's larger direct push tooling (up to 3in x 4ft liners). Pulling the accompanying dual-blade liner splitter along the liner exposes the sample. The sample may then be tested with a portable sniffer-type PID or FID. Cut the other side of the liner and place the remaining liner with the sample in a v-tray for physical examination and collection. Up to five samples can be stored in the sample preparation station.

The decontamination area allows you to easily wash tooling as you retrieve it from the ground. Each tray has a separate ball valve that allows contaminated water to be discharged separately. The basic station includes the preparation table, dual-blade liner splitter and decontamination station. The complete wash station includes two 14-gallon tanks and a low-pressure wand. The complete station includes the preparation table, dual-blade liner splitter, decontamination station, two 14 gallon poly tanks, low pressure pumps, 10ft hose per tank, and low pressure hose wands.



## Truck-Mounted Sample Preparation & Decon Station

Part#	Item	Price
5053.05	Basic Truck-Mounted Sample Preparation with Decon Station	\$
5053.00	Complete Truck-Mounted Sample Preparation with Decon Station	\$



## Deck-Mounted Single-Tray Sample Preparation Station

The simple, deck-mounted single tray sample preparation station can handle liners up to 3in x 4ft. The dual-blade liner splitter offers a quick, easy way to expose your samples for physical examination or subsequent testing. The complete station includes a single liner tray, dual-blade liner splitter. The basic station includes the single liner tray only.

### Deck-Mounted Sample Prep Station

Part#	Item	Price
5606.10	Deck-Mounted Basic Single-Tray Sample Prep Station	\$
5606.25	Deck-Mounted Complete Single-Tray Sample Prep Station	\$

## Soil Sampling with Direct Push

Direct push tooling is highly effective in most unconsolidated lithologies, including sand, soft clay, tight silt, swelling clay, heaving sand, and gravel. AMS soil sampling systems include dual-tube sampling systems, piston sampling systems, and single-tube sampling systems.

## Dual-Tube Sampling Systems:

AMS dual-tube sampling systems are used to collect undisturbed, continuous and depth-specific samples through a cased borehole. The external direct push extensions case the borehole to minimize the chance of cross contamination while displacing soils during the penetration. The internal direct push extensions are attached to a PVC liner which is inserted into the external direct push extension. Both are simultaneously driven into the soil to fill the liner. The internal extensions are then removed to recover the sample. These systems are used to install small diameter monitoring wells through the same tool string. A variety of outer drive tips are available.

Dual-tube systems are available in 3 1/2in, 2 3/4in, 2 3/8in, and 2 1/8in. The 2 3/8in system features Generation 3 (G3) and G3 Advanced (G3A) tooling. The 3 1/2in system is compatible with 3 1/2in geotechnical options. Tooling kits provide the necessary tooling to reach depths of 20ft or 40ft, depending on the selected kit.

## Dual-Tube Sampling Application:

AMS dual-tube systems are used to collect soil samples continuously from the surface or from a desired discrete depth below the surface.

- 1) Push the internal and external extensions and drive tips to the sampling depth using the drive head and thread protector pull cap.
- 2) Remove the external drive head, and pull out the internal extension(s) and internal drive tip using the thread protector pull cap.
- 3) Add liner, liner grabber, thread-protector pull cap, internal and external extensions, and drive head.
- 4) Push the sampler to the same length as the liner.
- 5) Remove the internal extension and the liner containing the soil sample.

For continuous sampling, repeat steps 3 through 5 to the desired depth using the external drive tip with liner. Use the liner grabber to hold the liner while attaching to the internal extension.

### Dual-Tube External Extensions

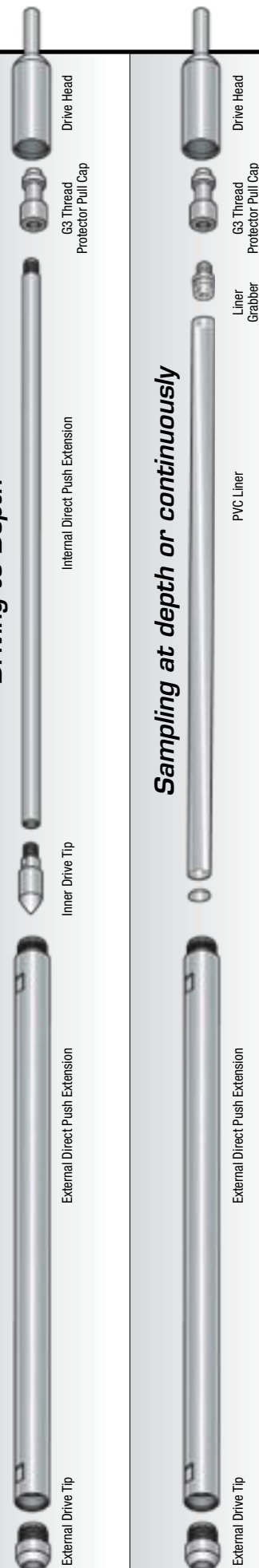
Outer Diameter (OD) — Inner Diameter (ID)

Extensions	OD	ID
G3 2 3/8in Extensions	2 3/8in	1 5/8in
2 1/8in Extensions	2 1/8in	1 5/8in
2 3/4in Extensions	2 3/4in	2 1/4in
3 1/2in Extensions	3 1/2in	3in

Driving to Depth

Sampling at depth or continuously

AMS dual-tube sampling systems are used to collect undisturbed, continuous and depth-specific samples through a cased borehole. They are available in 3 1/2in, 2 3/4in, 2 3/8in, and 2 1/8in. The 2 3/8in system features G3 and G3A tooling. The 3 1/2in dual-tube system is compatible with the 3 1/2in geotechnical options.





## G3 2 3/8in Dual-Tube System

The Generation three (G3) dual-tube system is based upon a thick-walled design and provides the durability and reliability recommended for AMS PowerProbes™ with maximum hammering and pulling capability. The G3 tooling can endure more push and pull back power than standard dual-tube systems. The G3 tooling is the best option for the collection of discrete or continuous samples at greater depth and in difficult soils.

The design helps to ensure reliable liner sampling and minimizes the chance of liner failure or collapse. The weight of the G3 internal direct push extensions is supported by the G3 external direct push extension to keep the weight off of the liner. This allows them to be effective and reliable at even greater depths.

G3 tooling is also the best option for the installation of 3/4in prepack monitoring wells, and it provides an effective conduit for soil gas and groundwater sampling. They use 1 1/2in OD liners. See pages 84-85 for more information on soil gas sampling with direct push, and see pages 86-91 for information on groundwater samplers and prepacked monitoring wells.

### G3 Advanced (G3A) features:

G3A systems use a reusable metal retainer sleeve slips easily onto the bottom end of the sample liner, which holds a modified core catcher, and provides a variety of additional advantages for the user. It acts as a heat-shield, and it keeps the bottom of the liner from folding or tearing due to swelling or jagged material entering the liner. Both G3 and G3A use 1 1/2in OD liners.



### G3 Advanced (G3A) Dual-Tube Tooling Options

Part#	Item	Price
<b>EXTERNAL DRIVE TIPS (EDT)</b>		
52648	G3A EDT - Silt/Sand	\$
52444	G3A EDT - Expanding Clay	\$
52445	G3A EDT - Super Expanding Clay	\$
52753	G3A EDT - Sand/Clay Combination	\$
52754	G3A EDT - Sand/Super Expanding Clay	\$
<b>MISC. EXTERNAL COMPONENTS</b>		
52446	G3A Expendable Drive Tip Holder	\$
<b>INTERNAL DRIVE TIPS (IDT)</b>		
5618.178	G3A IDT - Expanding Clay	\$
52513	G3A IDT - Super Expanding Clay	\$
5618.179	G3 and G3A IDT - Regular/Core Catcher and Silt/Sand	\$
5618.173	G3A Expanding Clay Expendable Sampling DT	\$
52265	G3A Super Expanding Clay Expendable Sampling DT	\$
<b>MISC. INTERNAL COMPONENTS</b>		
52168	G3A Core Catcher White, Soft	\$
52169	G3A Core Catcher Red, Hard	\$
54577	1 1/2in Metal Core Catcher	\$
54579	1 1/2in SST Core Catcher	\$
52125	G3A Core Catcher Loading Tool	\$
52649	G3A Sampler Retainer Set	\$
52126	G3A Core Catcher Retainer Sleeve	\$
52127	G3A Retainer Sleeve Loading Tool	\$
55439	G3A Retainer Sleeve Removal Tool	\$
52647	G3A Liner Unloading Tool	\$
52565	G3A Liner Loading Platform	\$

\*Note: All 2 3/8in DP extensions come with O-Ring grooves.

## G3 2 3/8in Dual-Tube Systems

Part#	Item	Price
5008.44	2 3/8in x 40ft Dual-Tube Sampling System w/ 4ft Extensions	\$
5008.46	2 3/8in x 20ft Dual-Tube Sampling System w/ 4ft Extensions	\$
5008.45	2 3/8in x 40ft Dual-Tube Sampling System w/ 5ft Extensions	\$
5008.47	2 3/8in x 20ft Dual-Tube Sampling System w/ 5ft Extensions	\$

### G3 2 3/8in Dual-Tube System Components

Part#	Item	Price	5008.44	5008.46	5008.45	5008.47
<b>EXTERNAL COMPONENTS</b>						
5618.194	G3 2 3/8in x 1ft Extension	\$	-	-	-	-
5618.195	G3 2 3/8in x 2ft Extension	\$	2	2	1	1
5618.196	G3 2 3/8in x 3ft Extension	\$	-	-	-	-
5618.193	G3 2 3/8in x 4ft Extension	\$	9	4	-	-
5618.197	G3 2 3/8in x 5ft Extension	\$	-	-	8	4
5618.241	G3 2 3/8in x 2ft Slotted Well Extension	\$	-	-	-	-
5618.188	G3 2 3/8in Dive Tip - No Liner	\$	-	-	-	-
5618.181	G3 2 3/8in Dive Tip - Standard	\$	1	1	1	1
5618.182	G3 2 3/8in Dive Tip - Core Catcher	\$	1	1	1	1
5618.171	G3 2 3/8in Dive Tip - O'size, No Liner	\$	-	-	-	-
5618.183	G3 2 3/8in Dive Tip - Clay	\$	1	1	1	1
5618.172	G3 2 3/8in Dive Tip - O'size, Clay	\$	-	-	-	-
5618.174	G3 2 3/8in Dive Tip - O'size Core Catcher	\$	-	-	-	-
5618.175	G3 2 3/8in Dive Tip - O'size, Standard	\$	-	-	-	-
5618.198	G3 2 3/8in Dive Tip - Expanding Clay	\$	-	-	-	-
52264	G3 2 3/8in Dive Tip - Super Expanding Clay	\$	-	-	-	-
52751	G3 Sand / Clay Combo Dive Tip	\$	-	-	-	-
52752	G3 Sand / Super Clay Combo Dive Tip	\$	-	-	-	-
5618.185	G3 2 3/8in Expendable Sampling Tip - Standard	\$	-	-	-	-
5618.173	G3 Regular Expanding Clay Dive Tip	\$	-	-	-	-
52265	G3 Super Expanding Clay Expendable Insert	\$	-	-	-	-
5618.187	G3 2 3/8in Solid Expendable Drive Tip	\$	-	-	-	-
5618.211	G3 2 3/8in Solid Screw-On Tip	\$	-	-	-	-
5618.184	G3 2 3/8in Expendable Drive Tip Holder	\$	-	-	-	-
5618.186	G3 2 3/8in Pull Cap	\$	2	2	2	2
5618.180	G3 2 3/8in Drive Head	\$	2	2	2	2
<b>INTERNAL COMPONENTS</b>						
5005.71	1 1/4in x 1ft Extension	\$	-	-	-	-
5005.72	1 1/4in x 2ft Extension	\$	2	2	2	2
5005.73	1 1/4in x 3ft Extension	\$	-	-	-	-
5005.74	1 1/4in x 4ft Extension	\$	9	4	-	-
5005.75	1 1/4in x 5ft Extension	\$	-	-	8	4
5618.189	G3 Internal Dive Tip - No Liner	\$	-	-	-	-
5618.178	G3 Internal Dive Tip - Clay	\$	1	1	1	1
5618.179	G3 Internal Dive Tip - Standard with Core Catcher	\$	1	1	1	1
5618.190	G3 1 1/2in Liner Grabber	\$	2	2	2	2
5618.191	G3 1 1/4in Thread Protector Pull Cap	\$	2	2	2	2
5005.861	G3 1 1/4in Internal Thread Protector	\$	2	2	2	2
5618.192	G3 Adapter 2 3/8in to 1 1/4in Thread	\$	-	-	-	-
<b>EXPENDABLE ITEMS &amp; ACCESSORIES (Bulk prices on page 96)</b>						
5006.423	1 1/2in x 2ft PVC Liner	\$	-	-	-	-
5006.425	1 1/2in x 4ft PVC Liner	\$	48	48	-	-
5006.427	1 1/2in x 5ft PVC Liner	\$	-	-	48	48
418.085	1 1/2in Core Catcher Cap	\$	25	25	25	25
418.08	1 1/2in Plastic End Cap	\$	100	100	100	100
5008.02	1 1/4in O-Ring Kit (qty 25)	\$	1	1	1	1
5008.061	2 3/8in O-Ring Kit (qty 25)	\$	1	1	1	1
5014.06	2 3/8in DP Extension Holder	\$	1	1	1	1
5014.03	1 1/4in DP Extension Holder	\$	1	1	1	1
5006.84	Steel T Handle, 3/8in Thread	\$	1	1	1	1
5009.20	3/8in x 4ft Cleaner Rod	\$	1	1	1	1
5009.05	Brush for 1 1/8in and 1 1/4in DP Extensions	\$	1	1	1	1
5009.10	Brush for 2 3/8in DP Extensions	\$	1	1	1	1

## G3 and G3A 2 3/8in Dual-Tube System

G3 tooling provides the durability and reliability recommended for AMS PowerProbes™ with maximum hammering and pulling capability. It can endure more push and pull back power than standard dual-tube systems. G3 and G3A tooling is the best option for the collection of discrete or continuous samples at greater depth and in difficult soils. See page 79 for more information on G3 systems.

## 2 1/8in Dual-Tube System

The 2 1/8in dual-tube sampling system is best used for shallow depths. It works well for placement of 3/4in prepack monitoring wells, and is a cost-effective means of collecting discrete or continuous samples. It also provides an effective conduit to allow for soil gas and groundwater sampling to be conducted telescopically. This system is the lightest AMS dual-tube system available. It can be used with AMS piston samplers, and it uses 1 1/2in OD liners.

## 2 3/4in Dual-Tube System

The 2 3/4in dual-tube sampling system is ideal for placement of 1in prepack monitoring wells. It provides increased versatility with a 1 5/8in heavy-duty internal extension option. It allows for efficient collection of discrete or continuous samples, and provides an effective conduit to allow for soil gas and groundwater sampling to be conducted telescopically. This system uses 2in OD liners.

## 3 1/2in Dual-Tube System

The 3 1/2in dual-tube sampling system is ideal for placement of a 1in or a 2in prepack monitoring wells, through the external DP extension. It provides increased versatility with a 1 5/8in heavy-duty internal extension option. It allows for efficient collection of discrete or continuous samples, and it provides an effective conduit to allow for soil gas and groundwater sampling to be conducted telescopically. AMS 3 1/2in dual-tube tooling can also be used to conduct SPT and other geotechnical sampling and testing. It uses 2in or 2 3/4in OD liners

## 2 1/8in Dual-Tube Sampling Kits

Part#	Item	Price
5008.40	2 1/8in x 40ft Dual-Tube Sampling Kit	\$
5008.41	2 1/8in x 20ft Dual-Tube Sampling Kit	\$

### 2 1/8in Dual-Tube Components

Part#	Item	Price	5008.40	5008.41
EXTERNAL EXTENSIONS				
5006.01	2 1/8in x 1ft	\$	-	-
5006.02	2 1/8in x 2ft	\$	2	2
5006.03	2 1/8in x 3ft	\$	-	-
5006.04	2 1/8in x 4ft	\$	9	4
5006.045	2 1/8in x 5ft	\$	-	-
5006.025	2 1/8in x 2ft Slotted Well	\$	-	-
EXTERNAL DRIVE TIPS (EDT)				
5006.06	2 1/8in EDT - No Liner	\$	-	-
5006.07	2 1/8in EDT - Standard	\$	1	1
5006.17	2 1/8in EDT- Clay	\$	1	1
5006.08	2 1/8in EDT - Core Catcher	\$	1	1
5006.077	2 1/8in EDT- Solid	\$	-	-
5007.23	2 1/8in EDT - Solid Expendable	\$	-	-
5006.12	2 1/8in EDT - No Liner - O'size	\$	-	-
5006.13	2 1/8in EDT - Standard - O'size	\$	-	-
5006.18	2 1/8in EDT - Clay - O'size	\$	-	-
5006.165	2 1/8in Expendable EDT with Liner	\$	-	-
MISC. EXTERNAL COMPONENTS				
5007.19	2 1/8in Solid Expendable Drive Tip Holder	\$	-	-
5006.16	2 1/8in Expendable Sample Drive Tip Holder	\$	-	-
5006.15	2 1/8in Pull Cap	\$	2	2
5006.50	2 1/8in Drive Head	\$	2	2
INTERNAL EXTENSIONS				
5005.71	1 1/4in x 1ft	\$	-	-
5005.72	1 1/4in x 2ft	\$	2	2
5005.73	1 1/4in x 3ft	\$	-	-
5005.74	1 1/4in x 4ft	\$	9	4
5005.75	1 1/4in x 5ft	\$	-	-
INTERNAL DRIVE TIPS (IDT)				
5006.105	2 1/8in IDT- No Liner	\$	-	-
5006.115	2 1/8in IDT - Standard, Core Catcher	\$	1	1
5006.225	2 1/8in IDT - Clay	\$	1	1
MISC. INTERNAL COMPONENTS				
5005.80	1 1/4in Pull Cap	\$	1	1
5006.56	1 1/4in Thread Protector Cap	\$	2	2
5005.86	1 1/4in Drive Head	\$	1	1
5006.21	2 1/8in to 1 1/4in Adapter	\$	-	-
5006.53	1 1/2in Liner Grabber	\$	2	2
EXPENDABLE ITEMS (Bulk prices on page 96)				
5006.423	1 1/2in x 2ft PVC Liner	\$		
5006.425	1 1/2in x 4ft PVC Liner	\$	48	48
5006.427	1 1/2in x 5ft PVC Liner	\$		
418.085	1 1/2in Core Catcher Cap	\$	25	25
418.08	1 1/2in Plastic End Cap	\$	100	100
5008.02	1 1/4in O-Ring Kit (qty 25)	\$	1	1
5014.03	1 1/4in DP Extension Holder	\$	1	1
5014.01	2 1/8in DP Extension Holder	\$	1	1
5009.20	3/8in x 4ft Cleaner Rod	\$	1	1
5006.84	Steel T Handle, 3/8in Thread	\$	1	1
5009.05	Brush (1 1/8in and 1 1/4in Extensions)	\$	1	1
5009.09	Brush (2 1/8in Extensions)	\$	1	1

Contact AMS for more information on PowerProbes™ and direct push tooling.

## 2 3/4in Dual-Tube Sampling Kits

Part#	Item	Price
5010.07	2 3/4in x 40ft Dual-Tube Sampling Kit	\$
5010.08	2 3/4in x 20ft Dual -Tube Sampling Kit	\$

### 2 3/4in Dual-Tube Components

Part#	Item	Price	5010.07	5010.08
EXTERNAL EXTENSIONS				
5010.01	2 3/4in x 1ft	\$	-	-
5010.02	2 3/4in x 2ft	\$	2	2
5010.03	2 3/4in x 3ft	\$	-	-
5010.04	2 3/4in x 4ft	\$	9	4
5010.05	2 3/4in x 5ft	\$	-	-
5010.09	2 3/4in x 2ft Slotted Well DPE	\$	-	-
EXTERNAL DRIVE TIPS (EDT)				
5010.10	2 3/4in EDT - No Liner	\$	-	-
5010.11	2 3/4in EDT - Standard	\$	1	1
5010.12	2 3/4in EDT - Clay	\$	1	1
5010.13	2 3/4in EDT - Core Catcher	\$	1	1
5010.177	2 3/4in EDT - Solid	\$	-	-
5010.26	2 3/4in EDT - Solid Expendable	\$	-	-
5010.15	2 3/4in EDT - No Liner - O'size	\$	-	-
5010.16	2 3/4in EDT - Standard - O'size	\$	-	-
5010.17	2 3/4in EDT - Clay - O'size	\$	-	-
MISC. EXTERNAL COMPONENTS				
5010.27	2 3/4in Expendable Drive Tip Holder	\$	-	-
5010.35	2 3/4in Pull Cap	\$	2	2
5010.30	2 3/4in Drive Head	\$	2	2
INTERNAL EXTENSIONS				
5005.71	1 1/4in x 1ft	\$	-	-
5005.72	1 1/4in x 2ft	\$	2	2
5005.73	1 1/4in x 3ft	\$	-	-
5005.74	1 1/4in x 4ft	\$	9	4
5005.75	1 1/4in x 5ft	\$	-	-
INTERNAL DRIVE TIPS (IDT)				
5010.21	2 3/4in IDT - No Liner	\$	-	-
5010.23	2 3/4in IDT - Standard Core Catcher	\$	1	1
5010.25	2 3/4in IDT - Clay	\$	1	1
MISC. INTERNAL COMPONENTS				
5005.80	1 1/4in Pull Cap	\$	1	1
5006.56	1 1/4in Thread Protector Cap	\$	2	2
5005.86	1 1/4in Drive Head	\$	1	1
5010.41	2 3/4in to 1 1/4in Adapter	\$	-	-
5010.51	2in Liner Grabber	\$	2	2
EXPENDABLE ITEMS (Bulk prices on page 96)				
5010.46	2in x 2ft PVC Liner	\$	-	-
5010.48	2in x 4ft PVC Liner	\$	48	48
5010.44	2in x 5ft PVC Liner	\$	-	-
418.105	2in Core Catcher Cap	\$	25	25
418.10	2in Plastic End Cap	\$	100	100
5008.02	1 1/4in O-Ring Kit (qty 25)	\$	1	1
5014.03	1 1/4in DP Extension Holder	\$	1	1
5014.00	2 3/4in DP Extension Holder	\$	1	1

## Dual-Tube Tooling Accessories

Part#	Item	Price
5052.35	Tool Carrier & Brushes	\$
5052.30	Folding Tooling Stand	\$
5052.20	Portable Sample Preparation Station	\$
52581	3 1/2in x 22in Concrete & Asphalt Punch (See page 96)	\$
418.16	0.003in x 4in x 100ft Perforated Roll Fluoropolymer Film	\$



### 3 1/2in Dual-Tube Sampling Kits

Part#	Item	Price
75447	3 1/2in x 40ft Dual-Tube Sampling Kit	\$
5008.43	3 1/2in x 20ft Dual-Tube Sampling Kit	\$

### 3 1/2in Dual-Tube Components

Part#	Item	Price	75447	5008.43
<b>EXTERNAL EXTENSIONS</b>				
5618.035	3 1/2in x 1ft	\$	-	-
5618.03	3 1/2in x 2ft	\$	-	-
5618.04	3 1/2in x 4ft	\$	10	5
5618.05	3 1/2in x 5ft	\$	-	-
5618.01	3 1/2in x 2ft Slotted Well	\$	-	-
<b>EXTERNAL DRIVE TIPS (EDT)</b>				
5618.93	3 1/2in EDT - No Liner	\$	-	-
5618.92	3 1/2in EDT - Standard	\$	1	1
5618.159	3 1/2in EDT - Clay (new style)	\$	1	1
54581	3 1/2in EDT - Core Catcher	\$	1	1
5618.95	3 1/2in EDT - Standard Expendable	\$	-	-
5618.157	3 1/2in EDT - Solid Expendable	\$	-	-
<b>MISC. EXTERNAL COMPONENTS</b>				
5618.156	3 1/2in Expendable Drive Tip Holder	\$	-	-
5618.90	3 1/2in Pull Cap	\$	1	1
5618.91	3 1/2in Drive Head	\$	2	2
<b>INTERNAL EXTENSIONS</b>				
5005.71	1 1/4in x 1ft	\$	-	-
5005.72	1 1/4in x 2ft	\$	-	-
5005.73	1 1/4in x 3ft	\$	-	-
5005.74	1 1/4in x 4ft	\$	10	5
5005.75	1 1/4in x 5ft	\$	-	-
<b>INTERNAL DRIVE TIPS (IDT)</b>				
5618.98	3 1/2in IDT - No Liner	\$	-	-
5618.97	3 1/2in IDT - Standard	\$	1	1
5618.158	3 1/2in IDT - Clay (new style)	\$	1	1
<b>MISC. INTERNAL COMPONENTS</b>				
5005.80	1 1/4in Pull Cap	\$	1	1
5006.56	1 1/4in Thread Protector Cap	\$	2	2
5005.86	1 1/4in Drive Head	\$	1	1
5618.96	2 3/4in Liner Grabber	\$	2	2
<b>EXPENDABLE ITEMS (Bulk prices on page 96)</b>				
5618.06	2 3/4in x 4ft PVC Liner	\$	25	25
5618.07	2 3/4in x 5ft PVC Liner	\$	-	-
418.205	2 3/4in Core Catcher Cap	\$	-	-
418.20	2 3/4in Plastic End Cap	\$	50	50
5008.02	1 1/4in O-Ring Kit (qty 25)	\$	-	-
5008.98	3 1/2in O-Ring Kit (qty 25)	\$	-	-



See page 76 for storage options.

### Geotechnical Direct Push Systems

Geotechnical direct push systems simplify field work by allowing SPT and other geotechnical tests to be conducted, telescopically, through direct push tooling rather than through hollowstem augers.

See page 93 for more geotechnical sampling and testing equipment, and page 76 for geotechnical PowerProbe™ options and accessories.

### Geotechnical Direct Push Systems

Part#	Item	Price
55077	3 1/2in Geotechnical Assembly with 1 1/4in Internal DP Extensions	\$
55076	3 1/2in Geotechnical Assembly with 1 5/8in Internal DP Extensions	\$

### 3 1/2in Geotechnical Assembly with 1 1/4in Replacement Parts

Part#	Item	Price
5618.04	3 1/2in x 4ft DP Extension	\$
5005.74	1 1/4in x 4ft DP Extension	\$
5618.92	3 1/2in External DT - Standard	\$
5618.91	3 1/2in Drive Head	\$
5006.56	1 1/4in Thread Protector Cap	\$
54554	3 1/2in PS Liner Retainer Coupler	\$
54555	3 1/2in to 1 1/4in Inner Stop Coupler	\$
5618.163	3 1/2in Retainer Internal DT with 1 1/4in Thread	\$

### 3 1/2in Geotechnical Assembly with 1 5/8in Replacement Parts

Part#	Item	Price
5618.04	3 1/2in x 4ft DP Extension	\$
5006.94	1 5/8in x 4ft DP Extension	\$
5618.92	3 1/2in External DT - Standard	\$
5618.91	3 1/2in Drive Head	\$
5008.29	1 5/8in Thread Protector Cap	\$
54554	3 1/2in PS Liner Retainer Coupler	\$
54556	3 1/2in to 1 5/8in Inner Stop Coupler	\$
54573	3 1/2in Retainer Internal Drive Tip with 1 5/8in Thread	\$

### SPT Sampling with Direct Push Systems

AMS 3 1/2in direct push tooling allows you to conduct SPT sampling to comply with ASTM Method 1586 D. Besides the fact that direct push tooling is lighter than augers and much easier to decontaminate, the main benefit is that no lithologic cuttings are generated while advancing to the target depth. However, it is not recommended to use direct push tooling for SPT purposes in lithologies that require sampling to be conducted to get to the target depth.

### External Drive Tips:

- 1) Clays can present problems as they are depressurized when entering the sampler. Clay tips cut a smaller sample to allow for some expansion;
- 2) For sticky clays, oversize drive tips are used in tight formations to allow the tool string to make a larger diameter hole, enhancing penetration rate by reducing friction; and
- 3) Dry, sandy, or saturated soils can be kept within the sample liner with the use of a core catcher, allowing soil to enter the liner, but minimizing the chance of losing the sample.



9500-VTR

Direct push tooling is highly effective in most unconsolidated lithologies, including sand, soft clay, tight silt, swelling clay, heaving sand, and gravel.

## Piston Sampling Systems

Piston samplers eliminate pre-probing and are primarily used to sample flowing or heaving sands, swelling clays, and soils below groundwater. They allow the user to recover samples consistently in difficult and saturated conditions, and they are available in a variety of sizes. Piston samplers are available in 2 3/8in and 2 1/8in-diameters, and they come in 2ft, 4ft, and 5ft kits. 3 1/2in and 2 3/4in piston samplers are also available by special request, but they are not stocked items.

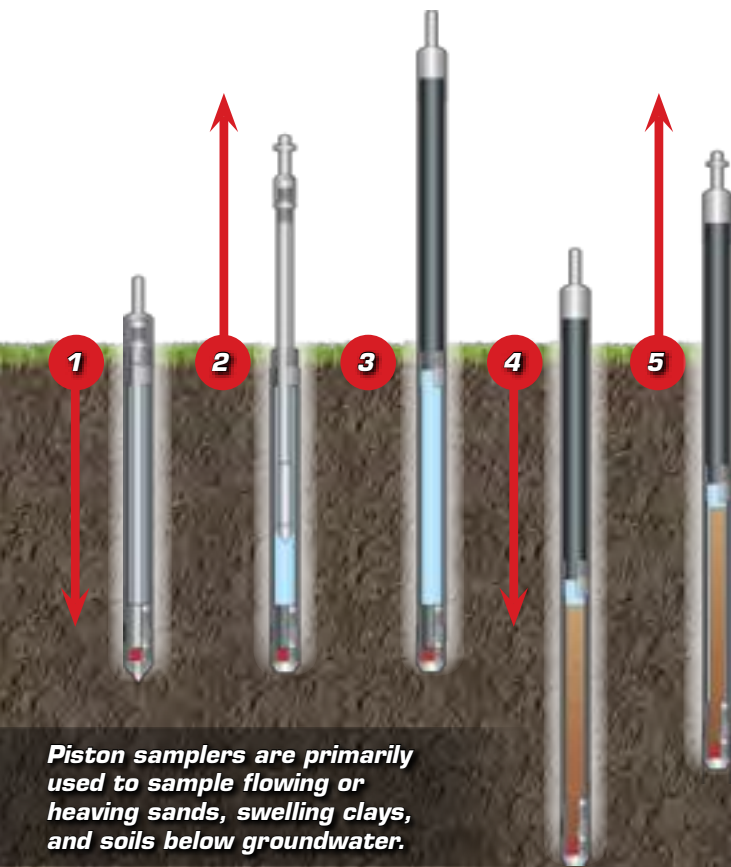
AMS G3 piston samplers feature a thicker design that can endure more push, hammer, and pull back. They also help minimize the chance of liner failure.

The center rod and tip displace caving soils and the internal drive tip prevents caving soils from entering the sampler. This helps prevent premature sample collection and minimizes the chance for cross-contamination. Piston samplers also use a basket retainer in the drive tip to prevent sample loss in fine or sandy soils.

### Piston Sampler Application:

- 1) The piston sampler is pushed or hammered to the desired depth where sampling is to begin.
- 2) Upon reaching the desired sampling depth, the internal direct push extension that is attached to the inner drive tip is removed.
- 3) Add an external direct push extension that is the same length of the piston sampler.
- 4) Pushed the system the length of your sampler.
- 5) Remove the piston sampler from the boring and retrieve the sample.

Additional sampling intervals at greater depths can be retrieved using the same boring. There is no chance of losing the center rod, and caving will not fill the liner. Material that prematurely enters the sampler and liner when removing the internal components is pushed up above the liner when the liner is filled from the desired sample interval.



**Piston samplers are primarily used to sample flowing or heaving sands, swelling clays, and soils below groundwater.**

## Piston Sampling Systems

Part#	Item	Price
5684.08	2 3/8in G3 Piston Sampler, 2ft x 1 1/2in Kit	\$
5684.10	2 3/8in G3 Piston Sampler, 4ft x 1 1/2in Kit	\$
5684.09	2 3/8in G3 Piston Sampler, 5ft x 1 1/2in Kit	\$
5020.00	2 1/8in Piston Sampler, 4ft x 1 1/2in Kit	\$

## Piston Sampling System Components

Part#	Item	Price	5684.08	5684.10	5684.09	5020.00
<b>EXTENSIONS</b>						
5618.195	G3 2 3/8in x 2ft Extension	\$	1	-	-	-
5618.193	G3 2 3/8in x 4ft Extension	\$	-	1	-	-
5618.197	G3 2 3/8in x 5ft Extension	\$	-	-	1	-
5006.02	2 1/8in x 2ft Extension	\$	-	-	-	-
5006.04	2 1/8in x 4ft Extension	\$	-	-	-	1
5006.045	2 1/8in x 5ft Extension	\$	-	-	-	-
5005.72	1 1/4in x 2ft Extension	\$	1	-	-	-
5005.74	1 1/4in x 4ft Extension	\$	-	1	-	1
5005.75	1 1/4in x 5ft Extension	\$	-	-	1	-
<b>EXTERNAL DRIVE TIPS (EDT)</b>						
5684.12	G3 2 3/8in Piston Sampler EDT	\$	1	1	1	-
5020.10	2 1/8in Piston Sampler EDT	\$	-	-	-	1
<b>INTERNAL DRIVE TIPS (IDT)</b>						
5684.11	G3 Piston Sampler IDT	\$	1	1	1	-
5020.24	2 1/8in Piston Sampler IDT	\$	-	-	-	1
53376	G3 2 3/8in Sectional	\$	1	1	1	-
5020.17	2 1/8in Sectional	\$	-	-	-	1
<b>MISCELLANEOUS COMPONENTS</b>						
5618.191	G3 1 1/4in Thread Protector Pull Cap	\$	1	1	1	-
5006.56	1 1/4in Thread Protector Pull Cap	\$	-	-	-	1
5684.13	G3 2 3/8in Liner Retainer Coupler	\$	1	1	1	-
5006.09	2 1/8in Liner Retainer Coupler	\$	-	-	-	1
5020.20	PS Internal Drive Stop Coupler, 1 1/4in Thread	\$	1	1	1	1
50433	2 3/8in Lowering Tool	\$	1	1	1	-
50841	2 1/8in Lowering Tool	\$	-	-	-	1
<b>EXPENDABLE ITEMS (Bulk prices on page 96)</b>						
18014	1 1/2in Plastic Core Catcher Red (Hard)	\$	-	-	-	-
52168	G3A 1 1/2in Core Catcher White (Soft)	\$	-	-	-	1
18013	1 1/2in Plastic Core Catcher White (Soft)	\$	1	1	1	-
52169	G3A 1 1/2in Plastic Core Catcher Red (Hard)	\$	-	-	-	-
54577	1 1/2in Metal Core Catcher	\$	-	-	-	-
18012	1 1/2in Metal Core Catcher	\$	-	-	-	-
54579	1 1/2in SST Core Catcher	\$	-	-	-	-
54578	1 1/2in SST Core Catcher	\$	-	-	-	-
418.08	1 1/2in Plastic End Cap	\$	-	-	-	-
5006.423	1 1/2in x 2ft PVC Liner	\$	1	-	-	-
5006.425	1 1/2in x 4ft PVC Liner	\$	-	1	-	1
5006.427	1 1/2in x 5ft PVC Liner	\$	-	-	1	-
5008.02	1 1/4in O-Rings (qty 25)	\$	-	-	-	-
5008.061	2 3/8in O-Rings (qty 25)	\$	-	-	-	-
5008.065	Drive Tip O-Rings (qty 25)	\$	-	-	-	-
<b>SAMPLE PREPARATION</b>						
418.16	0.003in x 4in x 100ft Perforated Roll Fluoropolymer Film	\$	-	-	-	-

## AMS G3 Piston Sampling System





## Single-Tube Soil Sampling

AMS single-tube tooling is used to quickly collect soil samples in non-heaving, non-caving lithology. When sampling shallow depths, this is the fastest, most cost-effective method available. Single-tube tooling is ideal for telescopic sampling techniques through larger systems, such as dual-tube tooling, or hollowstem augers. They are able to handle higher pressure than conventional split-soon methods. Single-tube soil samplers are available in 2 3/4in, 2 3/8in, 2 1/8in and 1 5/8in-diameter systems. For details contact AMS customer service.

Sampling begins at the surface and continues through the same hole for subsequent continuous and interval-specific samples, providing caving or swelling does not occur and there are no concerns of cross contamination.

Single-tube samplers may also be used through larger direct push systems or through the ID of a hollowstem auger. They may also be used in prebored holes prepared with hand augers. Our heavy-duty tooling is helpful in tighter lithologies and for obtaining greater depths.

A variety of sampler sizes and options are available to best fit most soil situations and job site requirements. Increase your sample recovery chances and eliminate unnecessary time for repeated driving and retrieving when collecting soil samples. A core catcher tip is also available.

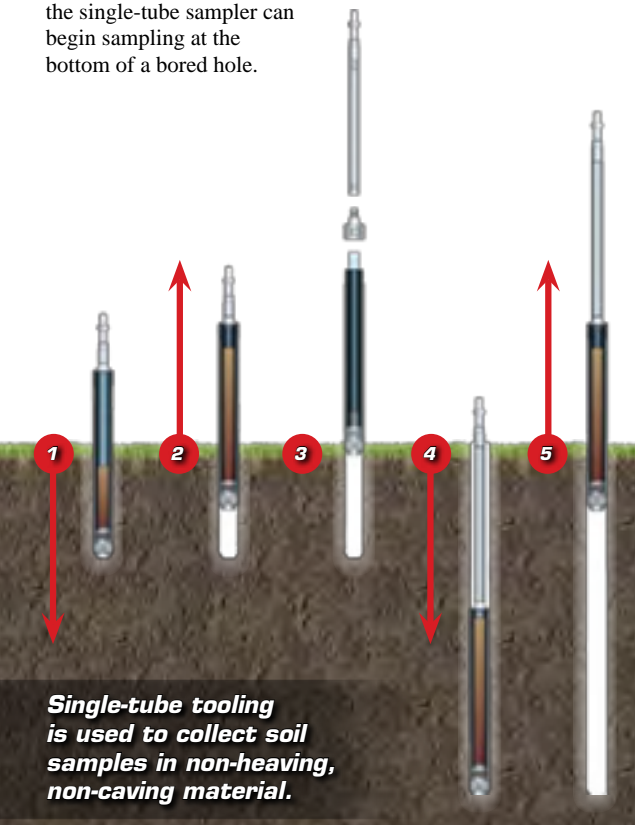
Pushing with extension(s) of the same diameter will eliminate the void that creates wear and tear on tooling, decrease tooling loss during borehole collapse/cave-in, and reduce loss of energy due to flex or bowing of rod.

### Single-Tube Soil Sampling Application:

- 1) Push the sampler using the drive head adapter.
- 2) Remove the sampler with the pull cap to retrieve the sample.
- 3) Put another sampler with a new liner into the borehole.
- 4) Add inner extension and push to the next sampling interval.
- 5) Remove the sampler and retrieve the sample.

Steps 3 thru 5 can be repeated to the depth desired as long as the borehole stays open (i.e. no caving or extreme swelling).

If pre-boring is necessary, the single-tube sampler can begin sampling at the bottom of a bored hole.



**Single-tube tooling is used to collect soil samples in non-heaving, non-caving material.**

## Single-Tube Systems

Single-tube samplers are available in 2 3/4in, 2 3/8in, 2 1/8in and 1 5/8in-diameter systems. For details contact AMS customer service.

### 2 3/8in Single-Tube Components

Part#	Item	Price
5618.192	2 3/8in to 1 1/4in Adapter	\$
5006.93	2 3/8in to 1 5/8in Adapter	\$
5618.10	2 3/8in Drive Head	\$
5618.186	2 3/8in Pull Cap	\$
5618.197	2 3/8in x 5ft DP Extension	\$
5618.193	2 3/8in x 4ft DP Extension	\$
5618.196	2 3/8in x 3ft DP Extension	\$
5618.195	2 3/8in x 2ft DP Extension	\$
5618.194	2 3/8in x 1ft DP Extension	\$
5014.06	2 3/8in DP Extension Holder	\$
EXTERNAL DRIVE TIPS (EDT)		
5618.181	2 3/8in Standard EDT	\$
5618.183	2 3/8in Clay EDT	\$
5618.182	2 3/8in Core Catcher EDT	\$
53376	2 3/8in G3 PS Sectional	\$
5684.12	2 3/8in G3 PS EDT	\$
EXPENDABLE ITEMS (Bulk prices on page 96)		
18012	1 1/2in Metal Core Catcher	\$
54578	1 1/2in SST Core Catcher	\$
18013	1 1/2in Plastic Core Catcher (white for soft lithology)	\$
18014	1 1/2in Plastic Core Catcher (red for hard lithology)	\$
5006.061	2 3/8in O-Rings	\$

### 2 1/8in Single-Tube Components

Part#	Item	Price
5006.21	2 1/8in to 1 1/4in Adapter	\$
5006.91	2 1/8in to 1 5/8in Adapter	\$
5006.50	2 1/8in Drive Head	\$
5006.15	2 1/8in Pull Cap	\$
5006.045	2 1/8in x 5ft DP Extension	\$
5006.04	2 1/8in x 4ft DP Extension	\$
5006.03	2 1/8in x 3ft DP Extension	\$
5006.02	2 1/8in x 2ft DP Extension	\$
5006.01	2 1/8in x 1ft DP Extension	\$
5014.01	2 1/8in DP Extension Holder	\$
EXTERNAL DRIVE TIPS (EDT)		
5006.07	2 1/8in Standard EDT	\$
5006.17	2 1/8in Clay EDT	\$
5006.08	2 1/8in Core Catcher EDT	\$
5020.17	2 1/8in G3 PS Sectional	\$
5020.10	2 1/8in G3 PS EDT	\$
EXPENDABLE ITEMS (Bulk prices on page 96)		
54577	1 1/2in Metal Core Catcher	\$
54579	1 1/2in SST Core Catcher	\$
52168	1 1/2in Plastic Core Catcher (white for soft lithology)	\$
52169	1 1/2in Plastic Core Catcher (red for hard lithology)	\$

### Single-Tube Components for use with Only 2 3/8in & 2 1/8in Systems

Part#	Item	Price
EXPENDABLE ITEMS (Bulk prices on page 96)		
5006.427	1 1/2in x 5ft Liner	\$
5006.425	1 1/2in x 4ft Liner	\$
5006.423	1 1/2in x 2ft Liner	\$
418.08	1 1/2in End Cap	\$
418.085	1 1/2in Core Catcher Cap	\$

### 2 3/4in Single-Tube Components

Part#	Item	Price
5010.41	2 3/4in to 1 1/4in Adapter	\$
57091	2 3/4in to 1 5/8in Adapter	\$
5010.30	2 3/4in Drive Head	\$
5010.35	2 3/4in Pull Cap	\$
5010.05	2 3/4in x 5ft DP Extension	\$
5010.04	2 3/4in x 4ft DP Extension	\$
5010.03	2 3/4in x 3ft DP Extension	\$
5010.02	2 3/4in x 2ft DP Extension	\$
5010.01	2 3/4in x 1ft DP Extension	\$
5014.01	2 3/4in DP Extension Holder	\$
EXTERNAL DRIVE TIPS (EDT)		
5010.11	2 3/4in Standard EDT	\$
5010.12	2 3/4in Clay EDT	\$
5010.13	2 3/4in Core Catcher EDT	\$
EXPENDABLE ITEMS (Bulk prices on page 96)		
5010.44	2in x 5ft Liner	\$
5010.48	2in x 4ft Liner	\$
5010.46	2in x 2ft Liner	\$
418.10	2in End Cap	\$
418.105	2in Core Catcher Cap	\$

### 3 1/2in Single-Tube Components

Part#	Item	Price
57862	3 1/2in to 1 1/4in Adapter	\$
57861	3 1/2in to 1 5/8in Adapter	\$
5618.91	3 1/2in Drive Head	\$
5618.90	3 1/2in Pull Cap	\$
5678.05	3 1/2in x 5ft DP Extension	\$
5678.04	3 1/2in x 4ft DP Extension	\$
5678.03	3 1/2in x 3ft DP Extension	\$
5678.035	3 1/2in x 2ft DP Extension	\$
5014.05	3 1/2in DP Extension Holder	\$
EXTERNAL DRIVE TIPS (EDT)		
5618.92	3 1/2in Standard EDT	\$
5618.159	3 1/2in Clay EDT	\$
54581	3 1/2in Core Catcher EDT	\$
EXPENDABLE ITEMS (Bulk prices on page 96)		
5618.07	2 3/4in x 5ft Liner	\$
5618.06	2 3/4in x 4ft Liner	\$
418.20	2 3/4in End Cap	\$
54582	2 3/4in Core Catcher Cap	\$

### Single-Tube Components for use with All Single-Tube Systems

Part#	Item	Price
5005.86	1 1/4in Drive Head	\$
5005.80	1 1/4in Pull Cap	\$
5006.85	1 5/8in Drive Head	\$
5006.86	1 5/8in Pull Cap	\$
5005.75	1 1/4in x 5ft DP Extension	\$
5005.74	1 1/4in x 4ft DP Extension	\$
5005.73	1 1/4in x 3ft DP Extension	\$
5005.72	1 1/4in x 2ft DP Extension	\$
5005.71	1 1/4in x 1ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.94	1 5/8in x 4ft DP Extension	\$
5006.93	1 5/8in x 3ft DP Extension	\$
5006.92	1 5/8in x 2ft DP Extension	\$
52306	1 5/8in x 1ft DP Extension	\$
5014.03	1 1/4in DP Extension Holder	\$
5014.07	1 5/8in DP Extension Holder	\$
EXPENDABLE ITEMS (Bulk prices on page 96)		
5008.02	1 1/4in O-Rings	\$
5006.99	1 5/8in O-Rings	\$

## Soil Gas Sampling & Monitoring with Direct Push

Direct push soil gas sampling and monitoring methods are commonly used during soil gas surveys and/or active soil gas investigations to discover information about soil and groundwater contamination, primarily volatile organic contaminant (VOC) levels. The ability to detect elevated VOC levels in soil gasses allows investigators to pinpoint locations for future soil and groundwater sampling. AMS tooling systems are relatively easy-to-use and allow for the collection of soil gas samples. These systems also adapt to existing tooling for use in a wide variety of methods. AMS offers soil gas sampling systems with several options to allow sampling for a wide variety of regulatory and standard procedures.

AMS soil gas direct push tooling may also be used to install soil gas monitoring systems around underground storage tanks, other subsurface areas of concern, or as part of an ongoing remediation efforts. They can be installed in a variety of subsurface lithologies to depths up to 100ft below ground surface. Soil gas monitoring systems are used for long-term soil gas monitoring and repeated sampling of volatile contaminants in the vadose zone.

### Single-Tube Procedure

AMS samplers can be pushed single-tube without pre-boring to collect a point source soil gas sample. Once you have reached the desired sampling depth, retract the direct push extensions a few inches to expend the tip thus opening the inlet/intake to the soil. A soil gas or vapor sample is collected using a vacuum pump and tubing. To sample deeper, withdraw the probe and attach another expendable tip and direct push to the desired sampling interval.

#### Recommendation:

Use 1 1/4in or the 1 5/8in expendable-tip soil gas samplers for single-tube installs.

- Ability to penetrate at an efficient rate
- Seal the top, and expend the tip
- Connect tubing to a twist-to-lock connector either connect to the expendable-tip holder or a pull cap when each connection is sealed with an O-ring and/or teflon
- Purge the ambient air at low flow from the tubing or tooling
- Finish by extracting the sample using a low flow vacuum

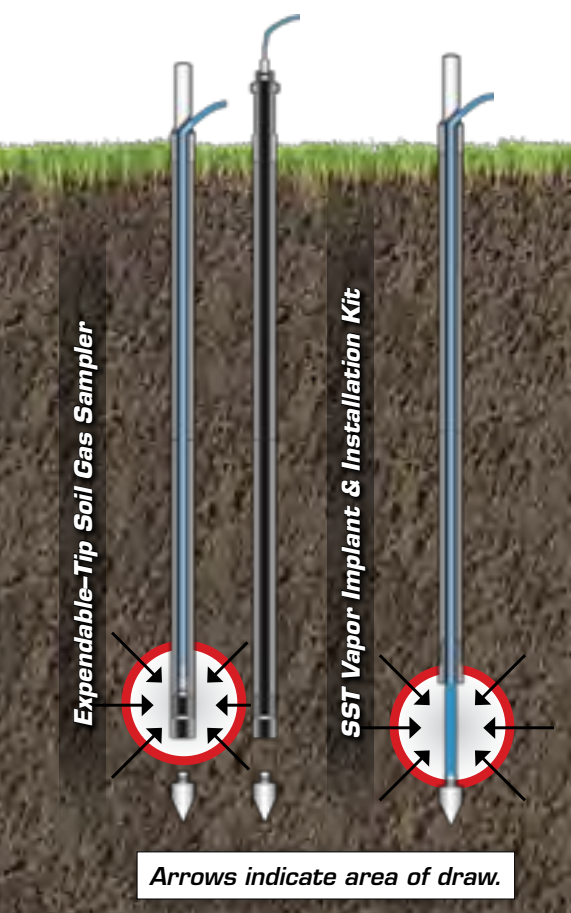
### Dual-Tube Procedure

While soil gas collection is easily done through an open borehole, the collection of soil gas using a cased, dual-tube system or hollowstem auger will allow for the sampling inlet to be isolated at a specific depth and minimize the chance of short circuiting to the borehole or surface.

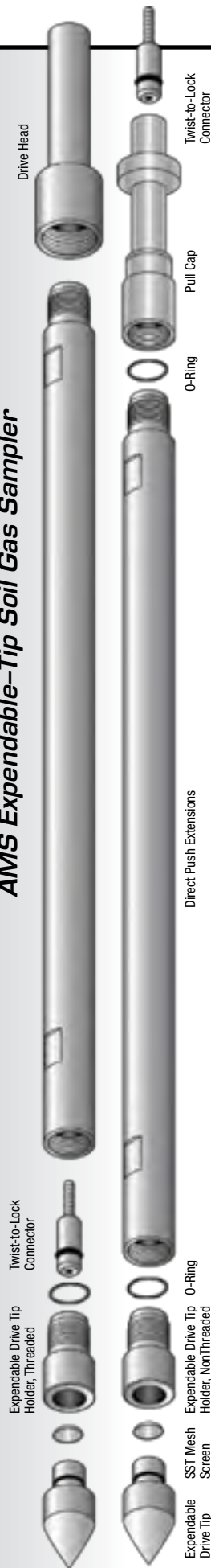
#### Recommendation:

Use 1 1/4in or the 1 5/8in expendable-tip soil gas samplers for dual-tube installs.

- Drive down with dual-tube system
- Pull out internal dual-tube components
- Pull back the external extensions 3in or 4in
- Drop bentonite, and hydrate with water
- Push the external extensions into the hydrated bentonite
- Lower the tooling through the external direct push extensions
- Push the tooling through bentonite, generating a seal, and into the lithology
- Pull back the tooling, expending the tip.
- Do not pull into or through the bentonite
- Purge the ambient air at a low flow
- Finish by extracting the sample using a low flow vacuum



## AMS Expendable-Tip Soil Gas Sampler





## Expendable-Tip Soil Gas Samplers

These samplers allow you to collect valuable data on the distribution and concentration of VOCs in soil and groundwater. They can be used to collect samples at specific depths to beyond 50ft. They can be used telescopically through AMS hollowstem augers and dual-tube sampling systems. They are inexpensive, easy to use, and adapt to your existing tooling. Simply drive the sampler into the subsurface.

At the desired depth, pull back the direct push tooling to detach the drive point and expose an inlet section with a screen. Begin purging and sampling using a vacuum pump, AMS vacuum station, or other instrumentation.

### 1 1/4in Expendable Tip Soil Gas Sampler

Part#	Item	Price
5005.74	1 1/4in x 4ft DP Extension	\$
5005.75	1 1/4in x 5ft DP Extension	\$
5004.56	1 1/4in Expendable Drive Tip	\$
5004.55	1 1/4in Expendable Drive Tip Holder, Threaded	\$
5004.49	1 1/4in Expendable Drive Tip Holder, Non-Threaded	\$
5005.86	1 1/4in Drive Head Adapter	\$
5005.80	1 1/4in Pull Cap	\$
5004.45	3/16in Twist-to-lock Connector	\$
5004.43	1/4in Twist-to-lock Connector	\$

### 1 5/8in Heavy-Duty Expendable-Tip Soil Gas Sampler

Part#	Item	Price
5006.94	1 5/8in x 4ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.89	1 5/8in Expendable Drive Tip	\$
5006.88	1 5/8in Expendable Drive Tip Holder, Threaded	\$
55498	1 5/8in Expendable Drive Tip Holder, Non-Threaded	\$
5006.85	1 5/8in Drive Head Adapter	\$
5006.86	1 5/8in Pull Cap	\$
5004.45	3/16in Twist-to-Lock Connector	\$
5004.43	1/4in Twist-to-Lock Connector	\$

### Expendable-Tip Soil Gas Samplers Expendables

Part#	Item	Price
5004.56	1 1/4in Expendable Drive Tip	\$
5006.89	1 5/8in Expendable Drive Tip	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$
5004.46	Twist-to-lock O-Ring (ea)	\$
5004.60	SST #120 Mesh Screen for Expendable DT Holders	\$
5004.59	SST #100 Mesh Screen for Expendable DT Holders	\$
5004.58	SST #50 Mesh Screen for Expendable DT Holders	\$

Bulk prices on page 96

## SST Vapor Implants

Stainless steel (SST) implants are miniature soil gas or vapor monitoring wells. They are used for long-term soil gas monitoring and can be installed using single-tube or dual-tube tooling. To install an implant and isolate it the at a chosen depth, push the tooling to the target depth, place the implant through the tooling, and retract the tooling. The borehole annular space is sealed to prevent ambient air breakthrough. Implants are used for long-term soil gas monitoring, UST monitoring, groundwater sampling, air sparging, vapor extraction monitoring, and as pressure measurement points in vacuum testing. Contact AMS customer service for more details.

### Advantages include:

- Placed through bore after rods have been driven to depth
- Can be set at any depth attainable by a direct push or other drill rig
- Convenient and inexpensive for both long-term soil gas monitoring, air sparging, and groundwater sampling
- 0.0057 (0.15mm) pore screen size
- For use with 1 1/4in and 1 5/8in kits
- SST universal barbed fitting accepts 3/16in, 1/4in, and 1/2in ID tubing
- Solid end allows for anchor point and open-hole placement
- Implants are constructed of double woven stainless steel wire screen
- All end fittings are stainless steel.
- Custom lengths are available!

### Stainless Steel Vapor Implants

Part#	Item	Price
21010	6in Implant with universal barbed fitting	\$
21011	12in Implant with universal barbed fitting	\$
21012	21in Implant with universal barbed fitting	\$
21013	6in Swagelock Implant	\$
21014	12in Swagelock Implant	\$

### 1 1/4in Vapor Implant Installation Kit

Part#	Item	Price
5005.74	1 1/4in x 4ft DP Extension	\$
5005.75	1 1/4in x 5ft DP Extension	\$
55446	1 1/4in Expendable Gas Sampling Tip	\$
5004.49	1 1/4in Expendable DT Holder	\$
5005.86	1 1/4in Drive Head Adapter	\$
5005.80	1 1/4in Pull Cap	\$
55446	1 1/4in Expendable Drive Tip	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$

### 1 5/8in Heavy-Duty Vapor Implant Installation Kit

Part#	Item	Price
5006.94	1 5/8in x 4ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
55447	1 5/8in Expendable Gas Sampling Tip	\$
55498	1 5/8in Expendable DT Holder	\$
5006.85	1 5/8in Drive Head Adapter	\$
5006.86	1 5/8in Pull Cap	\$
55447	1 5/8in Expendable Drive Tip	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$

## Tubing Options

Silicone tubing is often used as bridge tubing between the sampler and either Fluoropolymer and Polyethylene tubing. If the correct bridge tubing is used, it will create great seals on the tubing and fittings. #215.00

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. It can be used with AMS vacuum stations and pumps for collection of soil gas samples. Contact AMS customer service for details.

### GVP Tubing Options

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

## Sample Collection Options

The vacuum station comes with a line gauge and in-line low rotometer that can be used for measurement of the vacuum applied and volume extracted. This is a portable 12-volt system and can be used for soil gas sampling.

An electric vacuum pump, hand vacuum pump, tedlar bags, and syringe & syringe caps are also available. For more information, see page 59. Also see page 39 for manual sampling options.

### GVP Sample Collection Options

Part#	Item	Weight	Price
2105.93	Sterile and Greuseless Luer Slip, 50 ml Syringe (3 qty)		\$
2105.94	Sterile and Greuseless Luer Lock, 50 ml Syringe (3 qty)		\$
2105.95	Black Syringe Caps (1,000 qty)		\$
2105.96	White Syringe Caps (100 qty)		\$
2105.97	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	35.0 lb.	\$

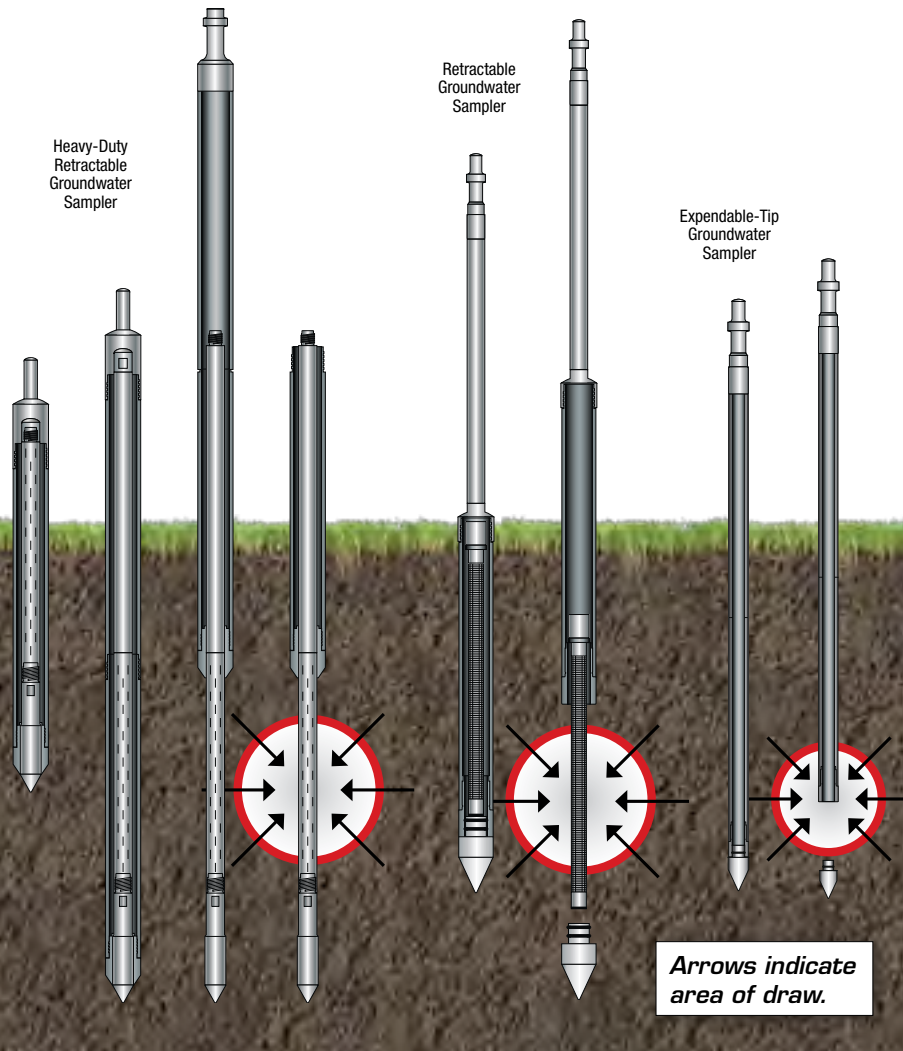
## Groundwater Sampling & Monitoring with Direct Push

AMS direct push groundwater sampling systems allow you to collect groundwater for analysis and characterization, sample at the groundwater surface or for vertical delineation of sinking contaminants, and to determine the necessity of monitoring well placement. They can be used with existing direct push tooling, and there are a variety of samplers to accommodate different conditions and sampling purposes.

AMS offers a variety of small diameter, prepacked screen groundwater monitoring wells that are an improved option over conventionally constructed monitoring wells. Direct push wells are modular products designed for direct push installation. Technically accurate and regulatory accepted direct push wells offer a cost-effective and labor-saving alternative to conventional wells. They allow you to efficiently acquire parameters about groundwater, and their use for environmental groundwater monitoring applications are gaining acceptance, as indicated and referenced by many professional organizations and governmental agencies, such as ASTM, USEPA, DoD, DOE, SERDP, and ESTCP.

### Advantages of Direct Push Wells Include:

- The most cost-effective method for installing long term monitoring wells.
- PVC and high-quality stainless steel screens assure representative samples.
- Assures accurate placement of filter media across desired interval.
- Quick Seal and Bentonite sleeves protect the sampling environment.
- The cased borehole, provides high integrity well construction and sample quality.
- Meets or exceeds requirements for ASTM Standard D6725 for Direct Push Installation of Prepacked Screen Monitoring Wells, and basic EPA and RCRA construction.
- DOD and EPA studies reveal no statistically significant difference between water quality samples collected from paired prepacks and conventionally drilled wells.
- Available in a variety of sizes for various conditions and sampling purposes.



### Expendable-Tip Groundwater Samplers



### Retractable Groundwater Samplers



### Heavy-Duty Retractable Groundwater Samplers





## Heavy-Duty Retractable Groundwater Samplers

The heavy-duty retractable groundwater sampler is ideal for use in heaving or caving lithologies that do not allow conventional extractable groundwater samplers to expose their screens properly. Heaving or caving material can prevent the internal screen of conventional retractable samplers from being exposed, but the weight and durability of the AMS heavy-duty retractable groundwater sampler allows it to overcome heaving conditions. In addition, even if the heaving conditions lift the internal screens and direct push extensions, the internal components can be pushed or hammered on to force a proper retraction while the internal sampling components are left in place. The sampler uses a slotted 1 1/4in direct push extension as the screen (ID 0.5in with 0.010in/.020in slots). Preboring is not necessary when using this sampler.

### G3 2 3/8in Heavy-Duty Retractable Groundwater Sampler

Part#	Item	Price
5618.193	G3 2 3/8in x 4ft DP Extension	\$
5011.55	1 1/4in x 4ft Slotted Drive Tip Extension	\$
5618.179	G3 2 3/8in Internal Drive Tip w/Liner	\$
5618.181	G3 2 3/8in External Drive Tip - No Liner	\$
5618.180	G3 2 3/8in Drive Head Adapter	\$
5618.191	G3 1 1/4in Thread Protector Pull Cap	\$
EXPENDABLES (Bulk prices on page 96)		
5008.061	2 3/8in O-Ring Kit (qty 25)	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$

### 2 1/8in Heavy-Duty Retractable Groundwater Sampler

Part#	Item	Price
5006.04	2 1/8in x 4ft DP Extension	\$
5011.55	1 1/4in x 4ft Slotted Drive Tip Extension	\$
5006.105	2 1/8in Solid Drive Tip	\$
5006.06	2 1/8in External Drive Tip - No Liner	\$
5006.50	2 1/8in Drive Head Adapter	\$
5006.56	1 1/4in Thread Protector Cap	\$
EXPENDABLES (Bulk prices on page 96)		
5008.02	1 1/4in O-Ring Kit (qty 25)	\$



Heavy-duty retractable groundwater samplers are used in heaving or caving lithologies.

## NEW Retractable Groundwater Samplers

The retractable groundwater sampler allows placement of a screen into saturated soils. The mesh screen has an ID of 1/2in. It can be pushed single-tube without pre boring. These samplers can have a stainless steel internal screen or a conventional monitoring well PVC screen. Standard PVC screens can be cut to fit and used with the appropriate adapters. SST screens can be used when contaminants can dissolve or negatively affect PVC screens. New PVC screens can be used in the same way as disposable bailers to eliminate the need for decontamination. In addition, PVC screens are ideal for grouting the borehole from bottom to top after collecting a sample, and it prevents contaminated material from falling into the groundwater while the tooling is retracted.

### 1 3/4in Retractable Groundwater Sampler Complete

Part#	Item	Price
5011.01	1 3/4in x 4ft Screen Point Sampler Complete 1 3/4in Top Cap, 1 1/4in Thread	\$
5011.04	1 3/4in x 2ft Screen Point Sampler Complete 1 3/4in Top Cap, 1 1/4in Thread	\$
5058.04	1 3/4in x 4ft Screen Point Sampler Complete, with 1 3/4in Top Cap, 1 5/8in Thread	\$
5058.02	1 3/4in x 2ft Screen Point Sampler Complete, with 1 3/4in Top Cap, 1 5/8in Thread	\$
5058.05	1 3/4in x 5ft Groundwater Sampler Body, with 1 3/4in Top Cap, 1 5/8in Thread (No Screen) For use with schedule 40, 3/4in flush thread monitoring well screens.	\$

### 1 3/4in Retractable Groundwater Sampler

Part#	Item	Price
5005.02	1 3/4in x 2ft DP Extension	\$
5005.00	1 3/4in x 4ft DP Extension	\$
5005.012	1 3/4in x 5ft DP Extension	\$
57732	1 3/4in Expendable-Tip Holder	\$
57733	1 3/4in to 1 5/8in Adapter	\$
5005.156	1 3/4in to 1 1/4in Adapter	\$
5011.32	3/4in x 2ft SST Screen	\$
5011.33	3/4in x 4ft SST Screen	\$
57107	3/4in Plastic Top Retainer Plug	\$
57864	3/4in Plastic Top Retainer Cap	\$
EXPENDABLES (Bulk prices on page 96)		
5011.30	*3/4in x 2ft PVC Screen (0.006in x 0.02in)	\$
5007.82	*3/4in x 5ft PVC Screen (0.006in x 0.02in)	\$
57106	3/4in Plastic Bottom Grout Plug	\$
5011.20	1 3/4in Expendable Points	\$
5008.07	1 3/4in O-Ring Kit (qty 25)	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$

\*Special order items available by request.

### Groundwater Sampler Accessories

BAILERS – See page 49.
BLADDER PUMPS – See page 91.

## Expendable-Tip Groundwater Samplers

The extendable tip groundwater sampler is a single-tube sampler that can be used at specific depths below the surface of groundwater. It is especially useful when sampling for sinking contaminants. The expendable-tip samplers are also ideal for discrete sampling for vertical delineation of sinking contaminants. To collect a sample, push the direct push extension to the desired sampling depth below the groundwater table, and then retract the extension. At this point, the purging and sampling may begin using a mini bailer, peristaltic pump, bladder pump, or other groundwater sampling instrument. For more information on these and other groundwater sampling instruments, see pages 90-91.

### 1 1/4in Expendable-Tip Groundwater Sampler

Part#	Item	Price
5005.74	1 1/4in x 4ft DP Extension	\$
5005.75	1 1/4in x 5ft DP Extension	\$
5004.56	1 1/4in Expendable DT	\$
5004.55	1 1/4in Expendable DT Holder, Threaded	\$
5005.86	1 1/4in Drive Head Adapter	\$
5005.80	1 1/4in Pull Cap	\$
5004.45	3/16in Twist-to-lock Connector	\$
5004.43	1/4in Twist-to-lock Connector	\$
EXPENDABLES (Bulk prices on page 96)		
5004.56	1 1/4in Expendable DT	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$
5004.46	Twist-to-lock O-Ring (each)	\$
5004.58	SST #50 Mesh Screen for Expendable DT Holders	\$
5004.59	SST #100 Mesh Screen for Expendable DT Holders	\$
5004.60	SST #120 Mesh Screen for Expendable DT Holders	\$

### 1 5/8in Expendable-Tip Groundwater Sampler Components

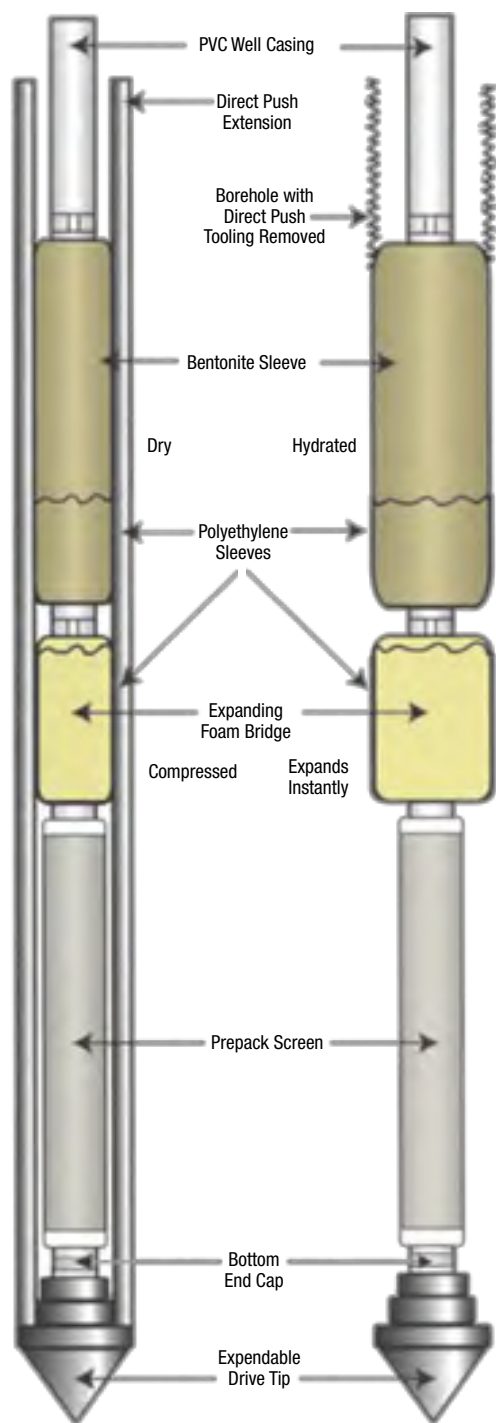
Part#	Item	Price
5006.94	1 5/8in x 4ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.89	1 5/8in Expendable Drive Tip	\$
5006.88	1 5/8in Expendable Drive Tip Holder, Threaded	\$
5006.85	1 5/8in Drive Head Adapter	\$
5006.86	1 5/8in Pull Cap	\$
5004.45	3/16in Twist-to-Lock Connector	\$
5004.43	1/4in Twist-to-Lock Connector	\$
EXPENDABLES (Bulk prices on page 96)		
5006.89	1 5/8in Expendable DT	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$
5004.46	Twist-to-lock O-Ring (each)	\$
5004.60	SST #120 Mesh Screen for Expendable Drive Tip Holders	\$
5004.59	SST #100 Mesh Screen for Expendable Drive Tip Holders	\$
5004.58	SST #50 Mesh Screen for Expendable Drive Tip Holders	\$

## Groundwater Monitoring Wells

AMS direct push installation kits provide everything necessary for quick and successful installation. The 4in ID conventional monitoring well (6in and 8in for remedial) used to be the standard and most popular well size, but 2in monitoring wells and 3/4in prepack wells have gained popularity and acceptance. Today, nearly all new monitoring wells, pumps, sensors and measuring devices work in 3/4in prepack wells.

AMS 2 3/4in tooling is necessary to install a 3/4in prepack well. AMS 2 3/8in (G3 and G3A) tooling and 2 3/4in tooling are used to install 1in temporary conventional wells, and 1in temporary injection/sparge (SCHUMASOIL®) wells. You may also install a 1in permanent conventional well if the borehole stays open after you remove the tooling, install the PVC, sand, Bentonite, and/or slurry, and if the regulatory agency allows this method. (Note: This is not always possible and does not ensure long-term monitoring well.) AMS 3 1/2in tooling can be used to install 2in or 1in prepack wells.

If it is necessary to collect soil samples prior to well installation, it is recommended to sample with G3 and G3A tooling and use 3 1/2in tooling for prepack installation only. Expendables are more expensive for 3 1/2in dual-tube systems than for 2 3/8in G3 and G3A tooling. However, for certain regulatory requirements and lithologies, it is necessary to use 3 1/2in tooling with either 2in or 2 3/4in PVC liners. It is recommended in this situation to install the 2in prepack well through the same boring using an expendable tip.



## Prepacked Screen Wells 3/4in Prepack Well Components

Part#	Item	Price
5007.80	3/4in x 5ft Prepack Well Screen	\$
5007.82	3/4in x 5ft Schedule 40 Slotted Screen	\$
5007.84	3/4in x 5ft Schedule 40 Casing	\$
5007.88	3/4in x 10ft Schedule 40 Casing	\$
5007.87	3/4in Schedule 40 Male Plug	\$
5007.86	3/4in Schedule 40 Female Cap	\$
5013.50	3/4in Foam Bridge	\$
5013.55	3/4in Bentonite Sleeve	\$
5013.70	3/4in Bentonite Sleeve & Foam Bridge	\$

## 1in Prepack Well Components

Part#	Item	Price
5007.91	1in x 5ft Prepack Well Screen	\$
5007.92	1in x 5ft Schedule 40 Slotted Screen	\$
5007.94	1in x 5ft Schedule 40 Casing	\$
5007.78	1in x 10ft Schedule 40 Casing	\$
5007.97	1in Schedule 40 Male Plug	\$
5007.96	1in Schedule 40 Female Cap	\$
5013.73	1in Foam Bridge	\$
5013.71	1in Bentonite Sleeve	\$
5013.74	1in Bentonite Sleeve & Foam Bridge	\$

## 2in Prepack Well Components

Part#	Item	Price
5007.99	2in x 5ft Prepack Well Screen	\$
5007.90	2in x 5ft Schedule 40 Slotted Screen	\$
5007.981	2in x 5ft Schedule 40 Casing	\$
5007.81	2in x 10ft Schedule 40 Casing	\$
5007.75	2in Schedule 40 Male Plug	\$
5007.73	2in Schedule 40 Female Cap	\$
5007.98	2in Foam Bridge	\$
5013.77	2in Bentonite Sleeve	\$
5013.79	2in Bentonite Sleeve & Foam Bridge	\$

## SST Environmental Surge Blocks

Part#	Item	Price
54262	For 1/2in ID Prepacked Wells	\$
54261	For 3/4in ID Prepacked Wells	\$
54260	For 1in ID Prepacked Wells	\$
54259	For 2in ID Prepacked Wells	\$

Contact AMS for more information on PowerProbes™ and direct push tooling.

## Prepacked Sizing Guides

Use 2 3/8in G3/G3A and 2 1/8in prepack add-on kits to install 3/4in prepacked screen groundwater monitoring wells. Use 2 3/4in add-on kits to install 1in wells. Use 3 1/2in add-on kits to install 1in and 2in prepacked screen groundwater monitoring wells. For more information see page 89 or contact AMS.

## Prepack Screen

PVC Casing / Screen	Length (feet)	Nominal Diameter (inches) ID/OD	Direct Push Tooling (inches OD)
0.50in	2.5, 5	0.625 / 1.4	2 1/8 - 2 3/8
0.75in	2.5, 5	0.81 / 1.4	2 1/8 - 2 3/8
1.00in	2.5, 5	1.03 / 1.7	2 3/4 - 3 1/2
2.00in	2.5, 5	2.05 / 2.8	3 1/2

## Bentonite Sleeve

Expansion times (example: 3/4in model seals 2in borehole in roughly 6-12 hours).

PVC Casing	Length (feet)	Original Diameter (inches)	Fill Hole Diameter (inches)
0.75in	2.5	1.4	> 2.5
1.00in	2.5	2.4	> 3.5
2.00in	2.5	2.8	> 4.0

## Expanding Foam Bridge

PVC Casing	Length (feet)	Original Diameter (inches)	Fill Hole Diameter (inches)
0.75in	0.5	1.4	> 2.5
1.00in	0.5	2.4	> 3.5
2.00in	0.5	2.8	> 4.0

## Expanding Foam Bridge with Bentonite Sleeve

PVC Casing	Length (feet)	Original Diameter (inches)	Fill Hole Diameter (inches)
0.75in	2.5	1.4	> 2.5
1.00in	2.5	2.4	> 3.5
2.00in	2.5	2.8	> 4.0





## Direct Push Prepacked Well Installation Kits

Direct push prepacked well installation kits are the most cost-effective and ideal option for installing the technically accurate, small diameter, prepack monitoring wells. The add-on kits are designed to work with your existing dual-tube tooling.

Use the 2 3/8in G3/G3A and 2 1/8in prepack well installation kits, or use the G3A 2 3/8in add-on kit with your existing tooling, to install 3/4in prepacked screen groundwater monitoring wells. The 2 3/4in prepacked well installation kit and add-on kits are used to install 1in wells. Use 3 1/2in prepacked well installation kits or add-on kits to install 1in and 2in prepacked screen groundwater monitoring wells. Contact AMS for details.

## 2 1/8in, 2 3/8in G3, & 2 3/8in G3A Prepacked Well Installation Add-on Kits

Part#	Item	Price
73557	2 1/8in Add-on Well Installation Kit	\$
73560	G3 2 3/8in Add-on Well Installation Kit	\$
73563	G3A 2 3/8in Add-on Well Installation Kit	\$

## 2 1/8in, 2 3/8in G3, & 2 3/8in G3A Add-on Kits Components

Part#	Item	73557	73560	73563
5006.025	2 1/8in x 2ft DP Slotted Well DP Extension	2		
5007.19	2 1/8in Expendable Drive Tip Holder	2		
5007.23	2 1/8in Solid Expendable Drive Tip	6		
5618.241	G3 2 3/8ft x 2ft DP Slotted Well Extension		2	2
5618.184	G3 2 3/8in Expendable Drive Tip Holder		2	-
52446	G3A 2 3/8in Expendable Drive Tip Holder		-	2
5618.187	G3 2 3/8in Solid Expendable Drive Tip		6	6
5006.65	2 1/8in Well Injection Coupler	1		
5006.66	G3 & G3A Well Injection Coupler		1	1

## 2 3/4in Prepacked Well Installation Kits

Part#	Item	Price
73565	2 3/4in x 20ft Well Installation Kit	\$
73566	2 3/4in x 40ft Well Installation Kit	\$
73567	2 3/4in Add-on Well Installation Kit	\$

## 2 3/4in Prepacked Well Installation Kits Components

Part#	Item	73565	73566	73567
5010.04	2 3/4in x 4ft DP Extension	5	10	
73575	2 3/4in x 2ft DP Slotted Well DP Extension	2	2	2
5010.30	2 3/4in Drive Head	2	2	
5010.35	2 3/4in Pull Cap	1	1	
5010.27	2 3/4in Expendable Drive Tip Holder	2	2	2
5010.26	2 3/4in Solid Expendable Drive Tip	6	6	6
5014.00	2 3/4in DP Extension Holder	1	1	
5009.20	3/8in x 4ft Cleaner Rod	1	1	
5006.84	Steel T-Handle, 3/8in Thread	1	1	
5009.11	Brush for 2 3/4in DP Extensions	1	1	

Please call to order the proper 2 3/4in Injection Coupler.

## 3 1/2in Prepacked Well Installation Kits

Part#	Item	Price
5008.42	3 1/2in x 20ft Well Installation Kit	\$
73569	3 1/2in x 40ft Well Installation Kit	\$
73570	3 1/2in Add-on Well Installation Kit	\$

## 3 1/2in Prepacked Well Installation Kits Components

Part#	Item	5008.42	73569	73570
5618.04	3 1/2in x 4ft DP Extension	5	10	
5618.01	3 1/2in x 2ft DP Slotted Well DP Extension	2	2	2
5618.91	3 1/2in Drive Head	2	2	
5618.90	3 1/2in Pull Cap	1	1	
5618.156	3 1/2in Expendable Drive Tip Holder	2	2	2
5618.157	3 1/2in Solid Expendable Aluminum Drive Tip	6	6	6
5014.05	3 1/2in DP Extension Holder	1	1	
5009.20	3/8in x 4ft Cleaner Rod	1	1	
5006.84	Steel T-Handle, 3/8in Thread	1	1	
5009.12	Brush for 3 1/2in DP Extensions	1	1	
5006.67	3 1/2in Well Injection Coupler	1	1	1

## Prepacked Well Installation Kit Accessories

J-PLUGS		
207.28	3/4in Schedule 40 Orange J-Plug	\$
207.29	1in Schedule 40/80 Orange J-Plug	\$
207.32	2in Schedule 40 Orange J-Plug	\$
LOCKS		
207.44	Padlock, Masterlock #3, Brass	\$
207.45	Padlock, Masterlock #4, Brass	\$
73201	Padlock, Dolphin-Style 35mm, Brass	\$
PROTECTIVE COVERS (Stick Up) (more sizes available. Call for details.)		
207.42	4in OD x 5ft Painted Steel	\$
207.43	6in OD x 5ft Painted Steel	\$
FLUSH MOUNTED MONITORING VAULTS (more sizes available)		
73001	8in OD x 12in Cast Iron w/ Metal Skirt	\$
207.40	8in OD x 8in Cast Iron w/ Metal Skirt	\$
207.41	5in OD x 7in Cast Iron w/ Metal Skirt	\$
73009	5in OD x 7in Cast Iron w/ Plastic Skirt	\$

12in skirts are available by special order.

**Direct push prepacked well installation kits are the most cost-effect option for installing small diameter, prepack monitoring wells.**



## Port-A-Reels

AMS Port-A-Reels are convenient for purging and sampling wells with an electric submersible pump. All needed components are built-in to the system including the pump, motor cable and hose. The rugged powder-coated frame has large, 16in pneumatic tires with extendable swivel castors on the front. The boom is extendable to accommodate different well casing heights. It is also fitted with a footage counter. The standard model has a hand crank and reel brake. The hydraulic model includes a 1 HP 110 volt electric driven hydraulic pump motor with a pendant control.

Designed for use with the Grundfos Redi-Flo 2in pump, the motor lead is enclosed within the hose along with a -motor support cable. The standard hose is a 1 1/8in diameter Kevlar dual longitudinal stranded and reinforced ethyl vinyl acetate hose with a natural LLDPE plastomer liner. A larger 1 3/8in diameter hose is optional. The unit is supplied with a 15ft motor lead extension and a 10ft water discharge hose that attaches to the reel hub. A Grundfos Redi-Flo converter is required to run, sold separately. See page 60 for more groundwater well sampling & monitoring systems, or contact AMS customer service for more information.

## Port-A-Reels

Part#	Item	Weight	Price
2602.15	150ft Manual Port-A-Reel with Redi-Flo 2in Pump	177.0 lb	\$
2602.30	300ft Manual Port-A-Reel with Redi-Flo 2in Pump	229.0 lb	\$
2603.15	150ft Hydraulic Port-A-Reel with Redi-Flo 2in Pump	323.0 lb	\$
2603.30	300ft Hydraulic Port-A-Reel with Redi-Flo 2in Pump	365.0 lb	\$
CONVERTER			
2500.01	115v or 230v Redi-Flo Converter	25.0 lb	\$

Note: An environmental model is also available with stainless steel or fluoropolymer water and hose contacting parts. These models use a polyethylene tube with a fluoropolymer lining for delivery of the water to the surface. Contact AMS directly for price and availability information.

## Inertia Lift Samplers

Inertia lift or check ball samplers are simple and inexpensive for purging and sampling through wells and direct push tooling. They are essentially a foot valve attached to tubing and the lower end placed in the well. Alternately raising and lowering the tube at the surface will cause water to flow up the tube. Each of the three models is sized by the ID of the required tubing.

## Inertia Lift Samplers

Part#	Item	Weight	Price
2102.00	3/16in Inertia Lift Sampler	0.1 lb	\$
2102.05	1/4in Inertia Lift Sampler	0.1 lb	\$
2102.10	3/8in Inertia Lift Sampler	0.1 lb	\$
TUBING			
215.12	3/16in ID x 1/4in OD x 500ft Polyethylene Tubing		\$
215.11	1/4in ID x 3/8in OD x 100ft Polyethylene Tubing		\$
215.15	3/8in ID x 1/2in OD x 100ft Polyethylene Tubing		\$



## Water Level Meters & Product/Water Interface Meters

AMS water level meters and product/water interface meters use lightweight, all aluminium reel construction. There are no plastic faceplates or plastic hubs to break. Water level measurement is an essential part of sampling events and is measured continuously during low flow sampling to ensure maintenance of the water level as close to the static level as possible.

AMS meters use a folding, ergonomic 4in crank handle that makes sampling deep wells a breeze. Both meters have precision-sealed double ball bearings that allow for easy and smooth winding. The aluminium reel will operate smoothly for years, where as plastic reels are essentially guaranteed to wear out. Reels can average 1 million revolutions in a typical year. Make sure you have a strong, aluminium reel that can handle the use.

The 5/8in water level meter has a Total Well Depth Indicator. With the same meter you can get a water level reading and a total depth reading. Lower the probe once – get two readings with one instrument. Two functions – no need to buy a tag line separately. With zero displacement readings, the 7/16in water level meter probe does not affect the static water level by more than 0.005in.

See page 50 or contact AMS customer service for more information.

## Water Level Meters & Product/Water Interface Meters

Part#	Item	Probe Dia	Tape Length	Weight	Price
3012.90	Water Level Meter	7/16in	100ft (30m)	8.0 lb.	\$
3012.95	Water Level Meter	7/16in	200ft (50m)	8.0 lb.	\$
3012.68	Water Level Meter	5/8in	100ft (30m)	8.0 lb.	\$
3012.69	Water Level Meter	5/8in	200ft (50m)	8.0 lb.	\$
3012.92	Product/Water Interface Meter	7/16in	100ft (30m)	8.0 lb.	\$
3012.97	Product/Water Interface Meter	7/16in	200ft (50m)	8.0 lb.	\$
3012.78	Product/Water Interface Meter	5/8in	100ft (30m)	8.0 lb.	\$
3012.79	Product/Water Interface Meter	5/8in	200ft (50m)	8.0 lb.	\$
ACCESSORIES					
3012.83	Padded Carrying Case			1.0 lb.	\$



**AMS water level meter reels are made using lightweight aluminium. There are no plastic faceplates or hubs to break.**





## Mini-Pneumatic Bladder Pump Systems

Miniature Bladder Pumps (MBPs) are used for sampling groundwater from wells or direct push tooling. They operate on the squeeze principle whereby water is drawn into the pump by hydrostatic pressure and contained within a fluoropolymer bladder. Air under pressure compresses the bladder to displace/lift the contained water out of the pump and through tubing that connects it to the surface. They are designed for low flow groundwater sampling. Select from five stainless steel and two plastic bodied models. All models have a thin wall TFE fluoropolymer bladder. Plastic models are available for use in situations where stainless steel may not be the material of choice. Using MBPs, you can Monitor low-flow purging of groundwater prior to collecting the sample, compliant with ASTM D6771, with groundwater quality instrumentation. MBPs are protected by US Patents 6,382,923 and 6,619,931.

## MBP Pneumatic Bladder Pump Systems Specifications

Part #	Model	Size	Body	Stroke Vol	Max Rate	Fittings	Minimum Well Size	Price
2100.61	MBP 1000	1in x 18in	SST	95 ml	1.8 L/min	1/4in Barb	1in Sch 40	\$
2100.62	MBP 875	7/8in x 18in	SST	85 ml	1.65 L/min	1/4in Barb	1in Sch 80	\$
2100.63	MBP 750	3/4in x 18in	SST	51 ml	1.5 L/min	1/4in Barb	3/4in Sch 40	\$
2100.64	MBP 500	1/2in x 18in	SST	20 ml	0.5 L/min	3/16in + 3/8in Barb	1/2in Sch 40	\$
2100.65	MBP 438	7/16in x 16in	SST	15 ml	0.4 L/min	3/16in + 3/8in Barb	1/2in Sch 80	\$
2100.66	MBP 1660	1.66in x 2ft	PVC	425 ml	3.7 L/min	1/4in + 3/8in Push Fit	2in Sch 80	\$
2100.67	MBP 1320	1.32in x 14in	PVC	35 ml	1.3 L/min	1/4in + 1/4in Push Fit	1 1/4in Sch 40	\$

Note: Tubing sizes used for fittings refer to the OD in the table above.



Fixtures: top left, 1in well head sampling fixture for 1in schedule 40/80 plastic pipe; top right, 1 1/4in direct push well head sampling fixture for manifold; bottom, manifold for 3/4in concentric tubing lines.



## Dual Range Controllers

The dual range controller provides the air pressure necessary to run a pneumatic bladder pump (above). It features precise controls to allow easy setting of the pump rate to comply with the requirements of low flow purging and sampling as well as conventional sampling. Air pressure is controlled in two switchable ranges, 2-50 psi and 5-100 psi. Cycle times are independently adjustable from 0.1 to 10 seconds. The controller is provided with an internal 5 micron self draining filter and 12 volt lead acid type gel cell battery. A 110 volt charger and external power cord are also included.

The dual range compressor controller also has a built-in air compressor and two receivers. A pressure switch maintains the system pressure at 95-105 psi. It eliminates the need for an external compressor and generator or compressed air supply at the sampling site. It is Protected by US Patents 6,382,923 and 6,619,931.



## Manifolds and Well Head Fixtures

These fixtures are designed to facilitate sampling using permanently installed bladder pumps. They allow the pump to be positioned at a precise and repeatable position in the well and allow the pump to be safely stored within the well between sampling events. It comprises a wafer with push fit connectors and fitting to attach the pump tubing and suspension cable. The wafer is attached with a short cable to a lockable well cap. When sampling, the wafer is placed inside a removable well head sampling fixture which precisely positions the wafer at the top of the well casing – usually the well datum point. After sampling, the fixture is removed and the wafer lowered into the well and the locking cap is secured. The MBP 438 and MBP 500 pumps use concentric tubes to connect them to the surface. A special manifold is required to terminate the tubes at the surface. A well head sampling fixture for this manifold is also available.

## MPB Manifolds and Well Head Fixtures

Part#	Item	Price
2100.71	2in Locking Cap Assembly with 2 x 1/4in Bulkhead Fittings	\$
2100.72	2in Locking Cap Assembly with 1/4in and 3/8in Bulkhead Fittings	\$
2100.73	2in Well Head Sampling Fixture	\$
2100.74	4in Well Head Sampling Fixture	\$
2100.68	Manifold for 3/8in and 3/16in Concentric Tubing	\$
2100.75	1in Well Head Sampling Fixture for Manifold	\$
2100.76	3/4in Well Head Sampling Fixture for Manifold	\$
2100.77	1 1/4in DP Well Head Fixture for Manifold	\$
2100.78	1 5/8in DP Well Head Fixture for Manifold	\$

## Expendables for Bladder Pumps (MBP)

Part#	Item	Price
TUBING		
215.14	7/16in Mini Bladder Pump Dual Tubing (per ft)	\$
214.98	3/16in ID x 1/4in OD x 50ft Fluoropolymer Tubing	\$
214.99	3/16in ID x 1/4in OD x 100ft Fluoropolymer Tubing	\$
215.00	3/16in ID x 1/4in OD x 250ft Fluoropolymer Tubing	\$
215.03	1/4in ID x 3/8in OD x 50ft Fluoropolymer Tubing	\$
215.04	1/4in ID x 3/8in OD x 100ft Fluoropolymer Tubing	\$
215.10	1/8in ID x 3/16in x 1ft OD Fluoropolymer Tubing*	\$
215.09	1/4in ID x 3/8in OD x 1ft Polyethylene with 1/8in ID x 3/16in OD x 1ft Coaxial Fluoropolymer Tubing*	\$
215.11	1/4in ID x 3/8in x 1ft Polyethylene Tubing*	\$
215.15	3/8in ID x 1/2in OD x 100ft Polyethylene Tubing*	\$
215.12	3/16in ID x 1/4in OD x 500ft Polyethylene Tubing*	\$
SUPPORT CABLE		
2300.55	1/8in Fluoropolymer Coated SST Cable (per ft)	\$
2300.60	3/16in Fluoropolymer Coated SST Cable (per ft)	\$
2300.65	1/4in Fluoropolymer Coated SST Cable (per ft)	\$

## Dual Range Controllers

Part#	Item	Price
2100.69	Dual Range Mini Bladder Pump Controller with Charger and Auto Power Cord	\$
2100.70	Dual Range Mini Bladder Pump Controller and Compressor with Charger and External Battery	\$

## Soil Remediation with Direct Push

Direct push tooling allows for a variety of precise remedial investigations and remedial activities to be designed and conducted in a cost-effective, time-efficient, and successful manner. Periodic remedial injections can be conducted with direct push rigs and remedial injection tooling until the site is successfully and sufficiently cleaned.

The injection of remediation compounds or remedial solutions has rapidly become a widely accepted approach for addressing contaminated sites. AMS injection tooling may be used with a wide variety of remedial injection compounds or solutions, as well as standard bentonite based grout mixes. The tooling may also be adapted to any injection pump system.

AMS remedial systems can include the backflow prevention check ball valve adapter to prevent backflow or back pressure problems while injecting into the formation. They also use various interchangeable tips, injection adapters, and extensions for multiple injection purposes, including injection into sand, gravel, silt, and clay aquifers.

## Remediation Applications:

Contaminated soil is remediated by injecting a suitable remediation compound into the material. The remediation compound is injected into the contaminated soil through an injection tip. The remediation compound may be adjusted to adapt to varying site conditions and contaminants. Choose the retractable injection tool for swelling lithologies. The expendable-tip injection tooling is designed for bottom-up injection. Inject while pulling the tooling from total depth to surface in a loose or coarse lithology. The tip remains at the bottom of the borehole.

## Injection Tooling

The injection of remediation compounds or remedial solutions has rapidly become a widely accepted approach for addressing contaminated sites. AMS injection tooling may be used with a variety of remedial injection compounds, as well as standard bentonite based grout mixes. The tooling may also be adapted to an injection pump system. Include the backflow prevention check valve to eliminate backflow or back pressure problems while injecting into the formation.

### Features include:

- Inject a variety of remedial solutions
- Adapt to any injection pump
- Use the interchangeable and versatile tips, injection adapter, and extensions with other AMS direct push tooling
- Optional injection check ball adapter prevents back flow
- Various tip options available for multiple injection purposes, including injection into sand, gravel, silt, and clay aquifers
- The retractable remedial injection tooling can be used in tight soils.
- The Mako injection tooling is primarily used in an open borehole, or in coarse soils.
- The drop out Injection tooling is used to inject while pulling the tooling from total depth to the surface in a loose or coarse lithology.

## Expendable-Tip Injection Tooling

Remediate subsurface soil and/or groundwater contaminants with the expendable-tip injection tool. It is capable of reaching great depths, thus allowing for the construction of a complete barrier under the contaminant. The expendable tip remains at the bottom of the borehole.

- Inject below the contamination
- Inject or grout while pulling the tooling up from total depth to surface.
- Usable with a variety of remedial solutions
- Highly effective at great depths
- Highly effective in loose or coarse lithology

### 1 1/4in Expendable-Tip Injection Tooling

Part#	Item	Price
5005.74	1 1/4in x 4ft DP Extension	\$
5004.49	1 1/4in Expendable-Tip Holder, 1/2in Hole	\$
5005.80	1 1/4in Pull Cap	\$
5005.86	1 1/4in Drive Head Adapter	\$
5004.45	3/16in Twist-to-Lock Connector	\$
5004.43	1/4in Twist-to-Lock Connector	\$
5009.81	1 1/4in Injection Coupler	\$
5009.83	1 1/4in Backflow Prevention Check Valve	\$
EXPENDABLES (Bulk prices on page 96)		
5004.56	1 1/4in Expendable Tip	\$
2100.31	Check Ball SST 1/2in	\$
5008.02	1 1/4in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$
5004.46	Twist-to-lock O-Ring (each)	\$
5004.60	SST #120 Mesh Screen for Expendable DT Holders	\$
5004.59	SST #100 Mesh Screen for Expendable DT Holders	\$
5004.58	SST #50 Mesh Screen for Expendable DT Holders	\$

### 1 5/8in Heavy-Duty Expendable-Tip Injection Tooling

Part#	Item	Price
5006.92	1 5/8in x 2ft DP Extension	\$
5006.94	1 5/8in x 4ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.88	1 5/8in Expendable DT Holder, Threaded	\$
5006.86	1 5/8in Pull Cap	\$
5006.85	1 5/8in Drive Head Adapter	\$
5004.45	3/16in Twist-to-Lock Connector	\$
5004.43	1/4in Twist-to-Lock Connector	\$
5006.96	1 5/8in Injection Coupler	\$
52474	1 5/8in Backflow Prevention Check Valve	\$
EXPENDABLES (Bulk prices on page 96)		
5006.89	1 5/8in Expendable DT	\$
2100.31	Check Ball SST 1/2in	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5004.83	O-Ring Kit for Expendable Tip	\$
5004.46	Twist-to-lock O-Ring (each)	\$
5004.60	SST #120 Mesh Screen for Expendable DT Holders	\$
5004.59	SST #100 Mesh Screen for Expendable DT Holders	\$
5004.58	SST #50 Mesh Screen for Expendable DT Holders	\$

## Retractable Remedial Injection Tooling

Retractable remedial injection tooling allows you to control the migration of soil contaminants by reducing or eliminating possible pathways. Remediate subsurface soil and/or groundwater contaminants with the new AMS retractable remedial injection direct push tool. Designed for swelling lithologies, this versatile retractable injection tool protects the injection screen during the drive even with out pre-probing the hole!

- Requires no pre-probing
- Retractable injection screen is protected during drive
- Inject while pulling up (bottom-up)
- 360° range offers effective lateral injection
- Usable with a variety of remedial solutions
- Use in tight, swelling, caving, sandy material
- Highly effective below groundwater

### 1 5/8in Retractable Remedial Injection Tooling

Part#	Item	Price
72850	1 5/8in Retractable Remedial Injection Tool	\$

### 1 5/8in Retractable Remedial Injection Tooling Components

Part#	Item	Price
72859	1 5/8in Retractable Injection Shoe	\$
72860	1 5/8in Retractable Injection Drive Head	\$
72861	1 5/8in Retractable Injection Upper Barrel	\$
72857	1 5/8in Retractable Injection Retaining Clips	\$
72855	1 5/8in Retractable Injection Lower Assembly	\$
72856	1 5/8in Retractable Injection Lower Port	\$
72858	1 5/8in x 5/16in Hardened Steel Dowel Pin	\$

### ACCESSORIES

5006.92	1 5/8in x 2ft DP Extension	\$
5006.94	1 5/8in x 4ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.86	1 5/8in Pull Cap	\$
5014.07	1 5/8in DP Extension Holder	\$
5006.85	1 5/8in Drive Head Adapter	\$
5006.96	1 5/8in Injection Coupler	\$
52474	1 5/8in Backflow Prevention Check Valve	\$
5006.99	1 5/8in O-Ring Kit (qty 25)	\$
5004.46	Twist-to-lock O-Ring (each)	\$

Bulk O-rings found on page 96.

## Injection Gauges

Part#	Item	Price
72862	Low Pressure (0 - 800 psi)	\$
72863	High Pressure (0 - 2,100 psi)	\$

## Portable Grout Station

Part#	Item	Price
5052.50	Portable Hydraulic Driven Grout Station	\$



## Geotechnical Sampling & Testing with Direct Push

Direct push can be a cost-effective, time saving, and a technically accurate means of drilling, sample collection, and testing. Split-Spoon and Shelby Tube samplers are popular options for geotechnical testing and sampling. This drilling method has been used for over 10 years and, according to the EPA in 2003, is accepted in all 50 states for RCRA, CERCLA, UST, and Brownfield site assessments and investigations. Geotechnical Sampling and/or testing for remedial investigations or construction-related projects can be conducted with direct push to depths over 100ft. For geotechnical testing from the ground surface to approximately 10ft, a variety of hand-held equipment can be used in conjunction with direct push or independently, depending on situation and scope of work.

Shelby tube samplers consist of a one-piece, thin-walled, hollow steel tube with an open-end that has been honed to a cutting edge. They are used to recover relatively undisturbed samples that are suitable for laboratory tests of engineering properties such as strength, compressibility, permeability, and density. They are very useful for collecting soils that are particularly sensitive to sampling disturbance, including fine cohesive soils and clays.

The split-spoon sampler is a hollow tube consisting of two halves that are split lengthwise and are held together by a circular connector head at the top and drive shoe (tip) at the bottom. They are used for taking samples for lithological descriptions and geotechnical testing. They can be used with liners to collect representative samples that are suitable for chemical analysis of all types of contaminants.

## Geotechnical AWJ and AW Tooling Options for Shelby Tube & Split-Spoon

Part#	Item	Price
<b>DRILL RODS</b>		
18020	5ft AWJ Drill Rod	\$
18021	4ft AWJ Drill Rod	\$
18022	3ft AWJ Drill Rod	\$
18023	2ft AWJ Drill Rod	\$
18024	1ft AWJ Drill Rod	\$
18025	5ft AW Drill Rod	\$
18026	4ft AW Drill Rod	\$
18027	3ft AW Drill Rod	\$
18034	2ft AW Drill Rod	\$
18035	1ft AW Drill Rod	\$
<b>DRIVE HEADS</b>		
18002	AWJ Drive Head	\$
5678.137	AW Drive Head	\$
<b>PULL CAPS</b>		
54403	AWJ Pull Cap	\$
5678.136	AW Pull Cap	\$
<b>ADAPTERS</b>		
54275	AWJ Male x AMS 1 1/4in Male	\$
5102.201	AWJ Male x AMS 1 1/4in Female	\$
54422	AWJ Male x AMS 1 5/8in Male	\$
70101	AWJ Male x AMS 1 5/8in Female	\$
70102	AW Male x AMS 1 1/4in Male	\$
70103	AW Male x AMS 1 1/4in Female	\$
70104	AW Male x AMS 1 5/8in Male	\$
70105	AW Male x AMS 1 5/8in Female	\$

## California-Modified Style Split-Spoon Samplers for SPT

Part#	Item	Price
<b>AWJ HEAD</b>		
18005	2in OD x 18in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AWJ Head	\$
18006	2in OD x 24in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AWJ Head	\$
70026	2 1/2in OD x 18in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AWJ Head	\$
70027	2 1/2in OD x 24in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AWJ Head	\$
<b>AW HEAD</b>		
18001	2in OD x 18in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AW Head	\$
18000	2in OD x 24in California Split Barrel Sampler w/ Waste Barrel, 4-TPI Sharp Shoe & AW Head	\$
<b>SHOE</b>		
70028	2in OD x 4-TPI Sharp (ASTM) Shoe for California Style Samplers	\$
70030	2 1/2in OD x 4-TPI Sharp (ASTM) Shoe for California Style Samplers	\$
<b>WASTE BARREL ASSEMBLY</b>		
70029	2in OD x 4-TPI Waste Barrel Assembly for California Style Split-Spoon Samplers	\$
70031	2 1/2in OD x 4-TPI Waste Barrel Assembly for California Style Split-Spoon Samplers	\$

## Shelby Tube Samplers

Part#	Item	Price
<b>BARREL</b>		
70050	2in OD x 30in Steel Shelby Tube Sample Barrel (Boxes of 36)	\$
70051	2in OD x 36in Steel Shelby Tube Sample Barrel (Boxes of 36)	\$
70070	3in OD x 30in Steel Shelby Tube Sample Barrel (Boxes of 16)	\$
70071	3in OD x 36in Steel Shelby Tube Sample Barrel (Boxes of 16)	\$
<b>TUBE HEAD ASSEMBLY (Set screws sold separately)</b>		
70053	2in OD x AW Shelby Tube Head Assembly w/ Ball & Roll-Pin	\$
70054	2in OD x AWJ Shelby Tube Head Assembly w/ Ball & Roll-Pin	\$
70073	3in OD x AW Shelby Tube Head Assembly w/ Ball & Roll-Pin	\$
70074	3in OD x AWJ Shelby Tube Head Assembly w/ Ball & Roll-Pin	\$
<b>EXPENDABLES (Bulk prices on page 96)</b>		
70055	Set Screws (4-Required) for 2in OD Shelby Tube Head Assembly	\$
70075	Set Screws (4-Required) for 3in OD Shelby Tube Head Assembly	\$
70052	2in (Black or Yellow) Plastic Caps for 2in OD Shelby Tubes (2-Required)	\$
70072	3in (Black or Yellow) Plastic Caps for 3in OD Shelby Tubes (2-Required)	\$
418.16	0.003in x 4in x 100ft Perforated Roll Fluoropolymer Film	\$

## 1 5/8in Heavy-Duty Tooling Options for Shelby Tube & Split-Spoon Samplers

Part#	Item	Price
52308	1 5/8in x 6in DP Extension	\$
52306	1 5/8in x 1ft DP Extension	\$
5006.92	1 5/8in x 2ft DP Extension	\$
52307	1 5/8in x 3ft DP Extension	\$
5006.95	1 5/8in x 5ft DP Extension	\$
5006.86	1 5/8in Pull Cap	\$
52317	1 5/8in Geotechnical Drive Head Adapter	\$
52310	1 5/8in Male to AWJ Male Geotechnical Adapter	\$
52309	1 5/8in Male to AW Male Geotechnical Adapter	\$
<b>ACCESSORIES</b>		
70056	Sample Extruder Tool for 2in OD Shelby Tube	\$
70076	Sample Extruder Tool for 3in OD Shelby Tube	\$
70040	140-Pound (2-7/8in OD) In-Hole Style Hammer w/ AW Box Down & Ball Bearing Swivel Assembly	\$
70041	140-Pound Safety Style Drive Hammer Assembly w/ AWJ Pin Down & Hoisting Bail	\$
55077	3 1/2in Geotechnical Assembly with 1 1/4in	\$
55076	3 1/2in Geotechnical Assembly with 1 5/8in	\$
<b>EXPENDABLES</b>		
70032	2in Plastic Core Catcher (White, Soft) for 2-1/2in OD California-Modified, Split-Spoon Samplers	\$
70033	2in Plastic Core Catcher (Red, Hard) for 2-1/2in OD California-Modified, Split-Spoon Samplers	\$
18012	1 1/2in Metal Core Catcher	\$
18013	1 1/2in Plastic Core Catcher (white, soft lithology)	\$
18014	1 1/2in Plastic Core Catcher (red, hard lithology)	\$
18010	2in Replacement Core Catcher Shoe	\$
18016	1 1/2in x 6in Brass Liner	\$
418.08	1 1/2in Plastic End Caps	\$
418.16	0.003in x 4in x 100ft Perforated Roll Fluoropolymer Film	\$



## Using Hollowstem Augers with AMS PowerProbes™ & Direct Push Tooling

AMS PowerProbes™ are capable of performing conventional hollowstem augering techniques that allow them to reach deeper depths and give the user the ability to conduct direct push activities, telescopically, through the hollowstem auger. The result is less need for multiple drill rigs for complicated field situations.

AMS hollowstem augers are able to auger through difficult lithologies, including hardpan. They are ideal for drilling boreholes for lithologic description, sample collection for chemical analysis, conventional groundwater monitoring well installation, and geotechnical testing with split-spoon samplers and Shelby tube samplers.

Double-key hollowstem augers feature a continuous hard-faced flighting design, 3/8in (9.5mm) thick on the outer edge, with a dual bolt connection. The 4142 alloy steel connectors ensure strength and durability for groundwater monitoring well installations.

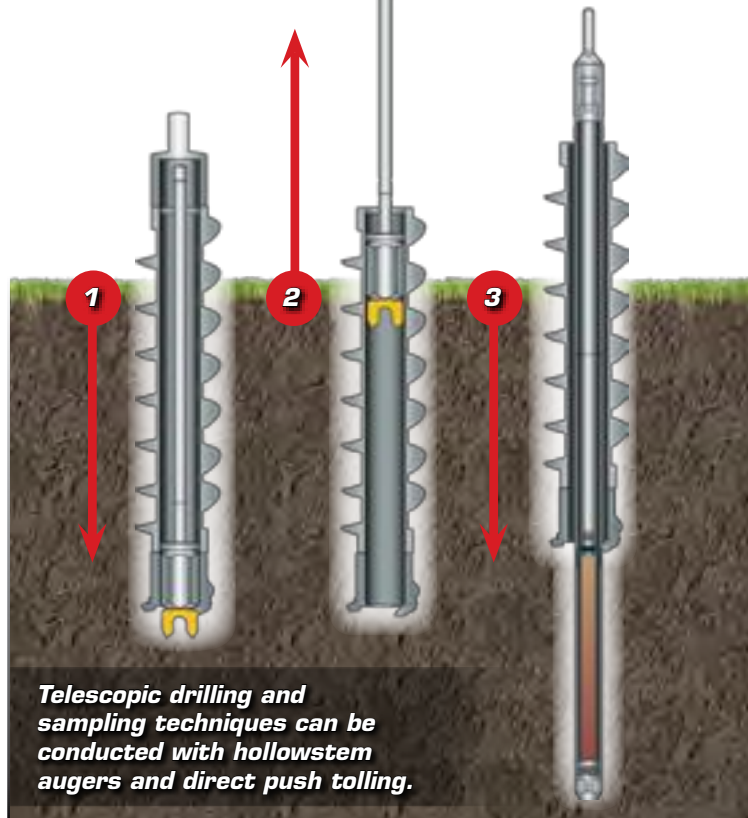
Please note that not all PowerProbes™ are able to perform all applications.

### Benefits Include:

- Ability to auger through difficult lithologies, including hardpan, to reach deeper depths
- Ability to perform direct push activities, telescopically, through the hollowstem auger, increasing the versatility of PowerProbe™ direct push tooling
- Telescopic drilling and sampling techniques can be conducted with augers and direct push tooling for geotechnical and environmental sampling and testing.
- Underground storage tank investigations
- Soil gas surveys/investigations
- Remedial investigations
- Remedial injection activities
- Piezometer installation
- Geotechnical investigation of soil properties
- Ideal for use with split-spoon samplers and shelly tube samplers
- Minimize the chance of cross contamination
- Quality samples can be taken during drilling without withdrawing the auger flights
- Wide variety of environmental and geotechnical drilling activities

### G3 Hollowstem Auger Benefits:

- Center string (rods) and pilot bit rotate in sync with hollowstem augers and cannot overtighten during drilling.
- Because there is no overtightening, it is easier and quicker to remove the pilot bit and center rods.
- With the center rods quickly and easily removed it is more efficient and effective to conduct environmental sampling and geotechnical testing.
- The pilot bit and center string cannot fall through and ahead of the hollowstem augers into a void or soft material.
- The keyways and crownlocks are configured so that the flighting lines up with every connection.



### G3 Hollowstem Auger





## 2 1/4in ID Hollowstem Auger

Part#	Item
5200.12	Hollowstem Auger DK 2 1/4in x 4ft
5200.13	Drive Cap DK 2 1/4in 2in Hex Pin
5200.14	Cutter Head DK 2 1/4in Spade/Bullet
5200.15	Pilot Bit DK 2 1/4in
5200.16	Pilot Bit Connector DK 2 1/4in AW
5200.161	Pilot Bit Connector DK 2 1/4inAWJ
5200.162	Pilot Bit Connector DK 2 1/4inAMS 1 5/8in
MISCELLANEOUS	
5200.17	Adapter Rod To Cap DK 2 1/4in AW
5200.171	Adapter Rod To Cap DK AWJ
5200.172	Adapter Rod To Cap DK AMS 1 5/8in
5200.18	Rod To Cap Adapter Nut & Bolt 2 1/4in
5629.77	Auger Bolt

## 3 1/4in ID Hollowstem Auger

Part#	Item
5200.19	Hollowstem Auger DK 3 1/4in x 4ft
5200.20	Drive Cap DK 3 1/4in 2in Hex Pin
5200.21	Cutter Head DK 3 1/4in Spade/Bullet
5200.23	Pilot Bit DK 3 1/4in
5200.22	Pilot Bit Connector DK 3 1/4in AW
5200.221	Pilot Bit Connector DK 3 1/4in AWJ
5200.222	Pilot Bit Connector DK 3 1/4in AMS 1 5/8in
MISCELLANEOUS	
5200.24	Adapter Rod To Cap DK 3 1/4in AW
5200.241	Adapter Rod To Cap DK 3 1/4in AWJ
5200.242	Adapter Rod To Cap DK 3 1/4in AMS 1 5/8in
5200.25	Rod To Cap Adapter Nut & Bolt 3 1/4in
5629.77	Auger Bolt

## 4 1/4in ID Hollowstem Auger

Part#	Item
5200.26	Hollowstem Auger DK 4 1/4in x 4ft
5200.27	Drive Cap DK 4 1/4in 2in Hex Pin
5200.28	Cutter Head DK 4 1/4in Spade/Bullet
5200.30	Pilot Bit DK 4 1/4in
5200.29	Pilot Bit Connector DK 4 1/4in AW
5200.291	Pilot Bit Connector DK 4 1/4in AWJ
5200.292	Pilot Bit Connector DK 4 1/4in AMS 1 5/8in
MISCELLANEOUS	
5200.31	Adapter Rod To Cap DK 4 1/4in AW
5200.311	Adapter Rod To Cap DK 4 1/4in AWJ
5200.312	Adapter Rod To Cap DK 4 1/4in AMS 1 5/8in
5200.32	Rod To Cap Adapter Nut & Bolt 4 1/4in
5629.77	Auger Bolt

## 6 1/4in ID Hollowstem Auger

Part#	Item
5200.33	Hollowstem Auger DK 6 1/4in x 4ft
5200.34	Drive Cap DK 6 1/4in 2in Hex Pin
5200.35	Cutter Head DK 6 1/4in Spade/Bullet
5200.37	Pilot Bit DK 6 1/4in
5200.36	Pilot Bit Connector DK 6 1/4in AW
5200.361	Pilot Bit Connector DK 6 1/4in AWJ
5200.362	Pilot Bit Connector DK 6 1/4in AMS 1 5/8in
MISCELLANEOUS	
5200.38	Adapter Rod To Cap DK 6 1/4in AW
5200.381	Adapter Rod To Cap DK 6 1/4in AWJ
5200.382	Adapter Rod To Cap DK 6 1/4in AMS 1 5/8in
5200.39	Rod To Cap Adapter Nut & Bolt 6 1/4in
5629.77	Auger Bolt

## Conventional Hollowstem Augers

AMS 2 1/4in conventional hollowstem augers are only available as double-key (DK) single-bolt augers. 3 1/4in conventional hollowstem augers come standard as a double-key single-bolt auger, and they can be special ordered with two bolts for 10% more and a 3-week lead time from the day of order placement to the ship date.

4 1/4in and 6 1/4in conventional hollowstem augers are only available as double-key, bouble-bolt augers. The 2 1/4in, 3 1/4in, 4 1/4in, and 6 1/4in standard conventional augers are 5ft in functional length and can be ordered in 4ft functional lengths for the same price (but with a 3-week lead time from the date of order placement to the ship date).



## G3 2 1/4in ID Series Hollowstem Auger (7in OD)

Part#	Item	Price
5100.90	G3 2 1/4in x 4ft Hollowstem Auger Section	\$
5100.909	G3 2 1/4in Lead Auger Clay Complete	\$
5100.906	G3 2 1/4in Lead Auger Rock Complete	\$
5629.34	G3 2 1/4in Internal Drive Point Hex Holder w/Bit	\$
5100.902	G3 2 1/4in Rock Cutting Head	\$
5100.903	G3 2 1/4in Clay Cutting Head	\$
5100.195	G3 2 1/4in Chain Pull Cap w/2in Hex	\$
5100.196	G3 2 1/4in Chain Pull Cap w/ 2in Square	\$
5100.907	G3 2 1/4in Drive Cap w/2in Square	\$
5100.908	G3 2 1/4in Drive Cap w/2in Hex	\$
5005.80	1 1/4in Internal Pull Cap	\$
5005.74	1 1/4in x 4ft Internal DP Extension	\$
5006.56	1 1/4in Thread Protector Cap	\$
MISCELLANEOUS		
5628.80	Internal Extension Tripping Tool	\$
5629.23	G3 2 1/4in Lockbolt (each)	\$
5100.24	G3 2 1/4in Auger Fork	\$
5100.179	Wood Plug for 2 1/4in Auger	\$
5505.16	Plastic Plug for 2 1/4in Auger	\$
REPLACEMENT PARTS		
5100.18	G3 2 1/4in Internal Drive Pilot Bit	\$
13350	Internal Pilot Bit Pin (1/2in x 2in)	\$
5100.48	G3 Replacement Bit for Rock Head	\$
5100.47	G3 Replacement Bit for Clay Head	\$
1 5/8in HEAVY-DUTY INTERNAL AUGER COMPONENTS (2 1/4in G3 Augers)		
52643	2 1/4in Internal Drive Point Hex Holder with Bit for 1 5/8in Tooling	\$
52642	2 1/4in Drive Cap w/2in Hex for 1 5/8in Internal Tooling	\$
5006.94	1 5/8in x 4ft Internal DP Extension	\$
5006.86	1 5/8in Internal Pull Cap	\$
5008.29	1 5/8in Thread Protector Cap	\$

## G3 4 1/4in ID Series Hollowstem Auger (9in OD)

Part#	Item	Price
5100.91	G3 4 1/4in x 4ft Hollowstem Auger Section	\$
5100.918	G3 4 1/4in Lead Auger Clay Complete	\$
5100.905	G3 4 1/4in Lead Auger Rock Complete	\$
5629.62	G3 4 1/4in Internal Drive Point Hex Holder w/Bit	\$
5100.912	G3 4 1/4in Rock Cutting Head	\$
5100.913	G3 4 1/4in Clay Cutting Head	\$
5102.005	G3 4 1/4in Chain Pull Cap w/2in Hex	\$
5100.197	G3 4 1/4in Chain Pull Cap w/ 2in Square	\$
5100.916	G3 4 1/4in Drive Cap w/2in Square	\$
5629.56	G3 4 1/4in Drive Cap w/2in Hex	\$
5005.80	1 1/4in Internal Pull Cap	\$
5005.74	1 1/4in x 4ft Internal DP Extension	\$
5006.56	1 1/4in Thread Protector Cap	\$
MISCELLANEOUS		
5628.80	Internal Extension Tripping Tool	\$
5629.77	G3 4 1/4in Lockbolt (each)	\$
5102.20	G3 4 1/4in Auger Fork	\$
5102.069	Wood Plug for 4 1/4in Auger	\$
5505.17	Plastic Plug for 4 1/4in Auger	\$
REPLACEMENT PARTS		
5100.37	G3 4 1/4in Internal Drive Pilot Bit	\$
13351	Internal Pilot Bit Pin (1/2in x 3in)	\$
5100.48	G3 Replacement Bit for Rock Head	\$
5100.47	G3 Replacement Bit for Clay Head	\$
1 5/8in HEAVY-DUTY INTERNAL AUGER COMPONENTS (4 1/4in G3 Augers)		
52614	4 1/4in Internal Drive Point Hex Holder with Bit for 1 5/8in Internal Tooling	\$
52612	4 1/4in Drive Cap w/2in Hex for 1 5/8in Internal Tooling	\$
5006.94	1 5/8in x 4ft Internal DP Extension	\$
5008.29	1 5/8in Thread Protector Cap	\$
5006.86	1 5/8in Pull Cap	\$

## AMS PowerProbe™ Tooling Accessories

These items are designed for use with AMS PowerProbes™ and PowerProbe™ tooling. Accessories for AMS hand tooling are also available. See pages 54-59. AMS sampling equipment and accessories are also available on our website, [www.ams-samplers.com](http://www.ams-samplers.com). Contact AMS customer service if needed.

### Liqui-nox® Decontamination cleaner

Part#	Item	Price
20010	Liqui-nox®	\$

### Cleaning Tools

Part#	Item	Price
5009.00	Tapered Handle, 3/8in Thread	\$
5009.20	3/8in x 4ft Cleaner Rod	\$
5009.05	Brush for 1 1/8in or 1 1/4in DP Extensions	\$
5009.07	Brush for 1 3/4in DP Ext.	\$
5009.09	Brush for 2 1/8in or 2 3/8in DP Extensions	\$
5009.11	Brush for 2 3/4in DP Ext.	\$
5009.12	Brush for 3 1/2in DP Ext.	\$
5009.15	Bristle Brush, 20in Long	\$
5009.27	2 3/8" Wire Brush for 2 1/8in DP Extensions	\$
5006.84	Steel T- Handle, 3/8in Thread	\$

### Thread Chasers

Part#	Item	Price
5008.13	1 1/4in Thread Chaser	\$
5008.28	1 5/8in Thread Chaser	\$
5008.11	1 3/4in Thread Chaser	\$
5008.12	2 1/8in Thread Chaser	\$
5008.14	2 3/8in Thread Chaser	\$
5008.125	2 3/4in Thread Chaser	\$

### O-Ring Bulk/Bundle Pricing

1 1/4in O-Ring Kits	Qty	Price
5008.02	1 1/4in O-Ring Kit	25 \$
5008.021	1 1/4in O-Ring Kit	100 \$
5008.022	1 1/4in O-Ring Kit	500 \$

1 5/8in O-Ring Kits	Qty	Price
5006.99	1 5/8in O-Ring Kit	25 \$
5006.991	1 5/8in O-Ring Kit	100 \$
5006.992	1 5/8in O-Ring Kit	500 \$

1 3/4in O-Ring Kits	Qty	Price
5008.07	1 3/4in O-Ring Kit	25 \$
5008.08	1 3/4in O-Ring Kit	100 \$
5008.09	1 3/4in O-Ring Kit	500 \$

2 3/8in O-Ring Kits	Qty	Price
5008.061	2 3/8in O-Ring Kit	25 \$
5008.062	2 3/8in O-Ring Kit	100 \$
5008.063	2 3/8in O-Ring Kit	500 \$

PS Internal Drive Tip O-Rings	Qty	Price
5008.065	PS Drive Tip O-Rings	25 \$



### Extension Holders

Part#	Item	Price
5014.03	1 1/4in DP Extension Holder	\$
5014.07	1 5/8in DP Extension Holder	\$
5014.02	1 3/4in DP Extension Holder	\$
5014.01	2 1/8in DP Extension Holder	\$
5014.06	2 3/8in DP Extension Holder	\$
5014.00	2 3/4in DP Extension Holder	\$
5014.05	3 1/2in DP Extension Holder	\$

### Fishing Tools

Fishing tools are used to recover broken or damaged extensions.

### Fishing Tools

Part#	Item	Price
5008.23	1 1/4in Fishing Tool	\$
5008.24	2 1/8in or 2 3/8in Fishing Tool, 1 1/4in Thread	\$
5008.26	2 3/4in Fishing Tool, 1 1/4in Thread	\$
5008.27	1 5/8in Fishing Tool, 1 5/8in Thread	\$
52263	1 5/8in Fishing Tool, 1 1/4in Thread	\$

### Concrete/Asphalt Punch

Part#	Item	Price
52580	3 1/2in Concrete/Asphalt Punch Punch Complete	\$
52581	3 1/2in x 22in Concrete/Asphalt Punch	\$
5618.91	3 1/2in Drive Head	\$
5618.90	3 1/2in Pull Cap	\$

## Disposable Soil Samplers

The Core N' One (CNO) is the best option for field extraction of a sample that is to be submitted to a laboratory for analysis.

The Lock N' Load (LNL) is for field extraction, field extrusion, and field preservation. Kit A, Kit 11, and Kit 27 can be used in conjunction with a LNL.

Kit A includes two 40ml vials with 5.0ml of Sodium Bisulfate and stir bars, a 40ml vial with 5.0ml of Methanol, 2oz. Plastic Moisture Bottle, and a Lock N' Load Syringe.

Kit 11 includes two 40ml vials with 5.0ml of Laboratory Grade Deionized Water with stir bars, a 40ml vial with 5.0ml of Methanol, 2oz. Plastic Moisture Bottle, and a Lock N' Load Syringe.

Kit 27 includes two 40ml empty vials with stir bars, a 40ml vial with 5.0ml of Methanol, 2oz Plastic Moisture Bottle, and a Lock N' Load Syringe.

The project manager and field personal need to contact the analytical laboratory to determine the best kit to use when performing a field extraction. Additional kits are available. Contact AMS for more information.

### Portable Grout Station

5052.50	Portable Hydraulic Driven Grout Station	\$ 3,500.00
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### Extension Bulk/Bundle Pricing

1 1/4in Extensions		\$ per Extension per Qty		
		1-4	5-9	10+
5005.72	1 1/4in x 2ft	\$	\$	\$
5005.74	1 1/4in x 4ft	\$	\$	\$
5005.75	1 1/4in x 5ft	\$	\$	\$

2 1/8in Extensions		\$ per Extension per Qty		
		1-4	5-9	10+
5006.02	2 1/8in x 2ft	\$	\$	\$
5006.04	2 1/8in x 4ft	\$	\$	\$
5006.045	2 1/8in x 5ft	\$	\$	\$

2 3/8in Extensions		\$ per Extension per Qty		
		1-4	5-9	10+
5618.195	2 3/8in x 2ft	\$	\$	\$
5618.193	2 3/8in x 4ft	\$	\$	\$
5618.197	2 3/8in x 5ft	\$	\$	\$

### PVC Liners Bulk/Bundle Pricing

Sold in bundles of 48 liners

PVC Liners		\$ per Liner per Qty of Liners		
		1-4	5-9	10+
5006.423	1 1/2in x 2ft PVC Liner	\$	\$	\$
5006.425	1 1/2in x 4ft PVC Liner	\$	\$	\$
5006.427	1 1/2in x 5ft PVC Liner	\$	\$	\$
5010.46	2in x 2ft PVC Liner	\$	\$	\$
5010.48	2in x 4ft PVC Liner	\$	\$	\$



### Disposable Soil Samplers

Part#	Item	Price
19082	Core N' One Soil Handle	\$
19083	Core N' One Soil Capsule (20)	\$
19080	Lock N' Load 5035 Soil Handle	\$
19081	Lock N' Load 5035 Soil Syringe (50/cs)	\$
19084	Kit A (For Field Preservation)	\$
19085	Kit 11 (For Field Preservation)	\$
19086	Kit 27 (For Field Preservation)	\$
19087	Custody Seals (100 qty)	\$





# The world's finest sampling equipment.

AMS maintains an extensive warehouse of finished product and will usually be able to ship orders within 24 hours of receipt. Prices shown in this price list are for American Falls, Idaho. Products are shipped UPS or Federal Express and the freight is pre-paid and added to the invoice. Orders received from Idaho will have 6% sales tax added to the invoice. Terms of sale are check in advance, Visa, MasterCard, or American Express. C.O.D. is also available. An account over 30 days will be charged 1 3/4% per month on any unpaid balance, (21% per annum) with a minimum of \$ 5.00 per month finance charge. Products net weights are shown in pounds. Prices and products shown in this price list are subject to change without notice. Unused products returned to AMS for credit will be subject to a 15% re-stocking fee.

AMS takes every precaution to ensure safe delivery, but AMS does not guarantee safe delivery as our responsibility ends when shipments are turned over to the carrier. The responsibility of damage in transit is the carriers, whether it be visible or concealed. Inspect shipments immediately and insist that visible damages be indicated on your copy of the freight bill. Open shipments immediately and inspect them for concealed damage. In case of damage, notify the delivering carrier immediately, requesting that an inspection be made. Confirm all telephone requests in writing and keep records. You, our customer, must make all claims for damage immediately to the carrier.

## Limited warranty for hand sampling equipment

- Products manufactured by AMS, Inc. (Art's Manufacturing & Supply, Inc., American Falls, ID) are warranted, under normal and intended use, to be free of defects in material or workmanship for a period of thirty (30) days from the date of purchase under the following conditions:
- Warranty is limited to the repair or replacement of part or parts, which are determined to be defective through inspection and evaluation at AMS by AMS staff or a representative designated by AMS. Additionally, this warranty is rendered null and void if the product is found to have been damaged due to misuse or has come in contact with any unforeseen obstacles in the field that the equipment was not intended to handle, i.e.: boulders, foundations, etc.
- Should you experience a problem or have a concern regarding your AMS PowerProbe™ tooling please contact us. Our staff are dedicated and experienced and will do everything possible to answer your concerns.
- Shipping to and from AMS, American Falls, ID, of all products returned for repair and/or replacement will be the responsibility of the Buyer unless the Buyer and AMS otherwise agree in writing. Any travel expenses for service visits by AMS personnel or their designated representative will be the responsibility of the Buyer. An unauthorized repair or alteration of equipment will void this warranty in its entirety.
- All equipment returned to AMS, Inc. must be certified free of contamination. A written statement certifying decontamination must accompany such equipment. If it is determined that the Buyer's equipment is contaminated, it will be returned to the Buyer at the Buyer's expense and the Buyer will be responsible for any damages that AMS may incur. Any expense incurred by AMS for decontamination or inspection is the responsibility of the Buyer. Contaminated equipment will not be repaired, replaced or covered under any warranty until such time that the said equipment is decontaminated by the Buyer.
- Equipment sold by, but not manufactured by AMS, is covered by each individual manufacturer and is not covered under its AMS warranty. In no event or circumstance will AMS, Inc., or its representative be liable for injury, damage, or loss, direct or consequential, incidental, indirect, punitive or special, arising out of the use or inability to use equipment sold by AMS, Inc. All liability and risk is assumed by the Buyer from the time of delivery. The Buyer will be solely responsible for used and suitability of equipment for intended use.

## Limited warranty for AMS PowerProbe™ equipment

AMS manufactured PowerProbe™ tooling is warranted for 45 days from date of purchase to be free from defects in material and workmanship. Breakage, deformation and surface damage are excluded as these items are normally subjected to use at or near their limits of durability. This breakage or damage is usually not an indication that the tool is defective.

Should you experience a problem or have a concern regarding your AMS PowerProbe™ tooling please contact us. Our staff are dedicated and experienced and will do everything possible to answer your concerns.

Items returned to AMS must be accompanied by a statement certifying that they have been fully decontaminated. This is to ensure that no site contamination is transported illegally or enters the AMS manufacturing facility.

AMS maintains an extensive inventory of new and service replacement parts. These are available to provide rapid response to our customers. Our normal policy is to ship and charge for these items pending return of warranty claim items. AMS retains sole jurisdiction on the validity of all warranty items returned to them.

The AMS service replacement program is designed to keep our customers working with minimal delay. We do, however, reserve the right to change specifications and design at any time to accommodate improvements or changes outside AMS control.

AMS will always provide the best service they can. However, they cannot be held responsible for delays resulting from strikes, accidents, carrier negligence, and other causes beyond their control.

Prices shown in this brochure are FOB American Falls, Idaho, USA. Prices subject to change without prior notice. Products are usually shipped UPS or FedEx and the freight is added to the invoice. Orders placed in Idaho will have a 6% sales tax added. Terms of sale are check in advance, Visa, MasterCard, or American Express. Open account terms are available after account verification.

Unused products returned to AMS require pre-approval by AMS technical support. They are subject to a 15% re-stocking charge and must be shipped to AMS prepaid.

AMS does not guarantee safe delivery. The responsibility for damage in transit is the carriers, whether it be visible or concealed. Inspect shipments immediately and insist that visible damage be indicated on your copy of the freight bill or delivery document. Open shipments immediately and inspect them for concealed damage. In case of damage please report this immediately to the delivering carrier and request an inspection. Confirm all requests in writing and keep your records updated. AMS responsibility ceased when the shipment was handed over to the carrier. You, our customer, must make all claims for damage immediately to the carrier.

Training in the safe and effective use of the PowerProbe™ is normally provided free of charge at the time of delivery, at the AMS facility in American Falls, Idaho. This training will include the safe use of the tooling to collect samples of soils, soil gas and groundwater. On site training is also available, by arrangement, for a reasonable charge. AMS technical support staff attend many national conventions and trade exhibits, see [www.ams-samplers.com](http://www.ams-samplers.com) for details.

The AMS Technical Support Library has available Standard Operating Procedure Manuals as well as CD's. In addition, the following consensus ASTM Standards may be consulted for advice on the use of direct push and hollow stem auger techniques for environmental and/or geotechnical site assessment:

D 6282 Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations.

D 6001 Standard Guide for Direct-Push Water Sampling for Geoenvironmental Investigations.

D 5784 Standard Guide for Use of Hollow-Stem Augers for Geoenvironmental Exploration and the Installation of Subsurface Water – Quality Monitoring Devices.

D 6724 Standard Guide for Installation of Direct Push Ground Water Monitoring Wells.

D 6725 Practice for Direct Push Installation of Prepacked Screen Monitoring Wells in Unconsolidated Aquifers.

D 6771 Standard Practice for Low-Flow Purging and Sampling for Wells and Devices used for Ground-water Quality Investigations.

D 1586 Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils.

ASTM Standards may be purchased through ASTM International at [www.astm.org](http://www.astm.org).

## Catalog Price Changes

Every effort has been made to identify and project material costs for 2011. These costs have been included in our current pricing. However, due to the volatility of the marketplace and the associated impact on raw material costs as well as exchange rate fluctuation, we reserve the right to change catalog prices at any time without notice. As AMS is committed to customer service we will do everything we can to announce any changes ahead of time.

## AMS Rental Products and Policies

The majority of AMS hand sampling equipment is available for rent. Any disposable/ expendable items that are to be used with the rented products must be purchased. Contact AMS for more details and information on availability.

## Severability

It is understood and agreed to by the parties hereto that if any part, term or provision of this warranty is, (by the courts), held to be illegal or in conflict with any law, (either state or federal), the validity of the remaining portions or provisions shall not be affected and the rights and obligations of the parties shall be concluded and enforced as if this warranty did not contain the particular part, term or provision held to be invalid.

## Miscellaneous

The terms and conditions hereof and any litigation hereunder shall be construed according to the laws and venue of the State of Idaho, USA. No waiver by either party or breach of any of the terms and conditions herein contained shall be construed as a waiver of any succeeding breach of the same or any other term and condition hereof. This document shall constitute the full understanding of the parties. Neither party shall claim any modification, limitation, or release from any of the terms or conditions contained herein except by mutual agreement to that effect in writing and signed by the parties to be bound.



The world's finest sampling equipment.

Order by phone: 800-635-7330 208-226-2017 by fax: 208-226-7280 online: [www.ams-samplers.com](http://www.ams-samplers.com)



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American Falls, Idaho 83211

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208-226-2017

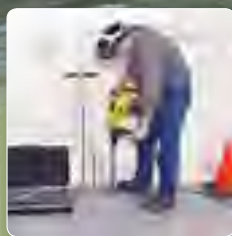
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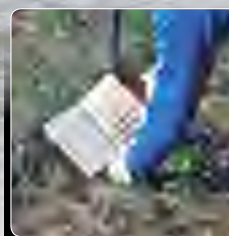
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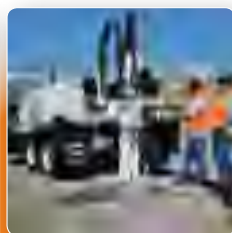
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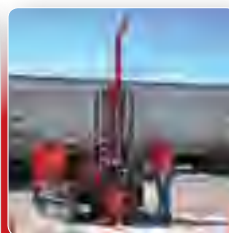
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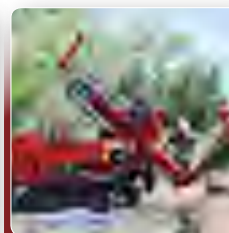
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