

## Geotechnical Sampling & Testing Chapter Review

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



Dynamic cone penetrometer (part# 59000) can evaluate strength and density of soil, in situ.



Infiltration rings (part# 400.97) can monitor infiltration rates, and study liquid waste disposal, leaching, and drainage efficiencies.

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





## Shaw Portable Core Drill

The Shaw portable core drill is a nearly ideal tool for environmental and geotechnical field investigation because it can be used in otherwise difficult of access locations behind buildings, fences and walls, trees, escarpments and much else. The diamond core bits of the system are easily capable of advancing borings through a large array of subsurface materials including steel reinforced concrete, hard rock and some kinds of cemented gravels. Its loose materials bit can be used to make stable, open borings with the use of bentonite clay in flowing sand and very loose gravel, and in clay with the use of surfactants mixed in drilling fluid. Soil sampling of the highest quality can be done with the cartridge and breech type of Shaw soil sampler. Bayonet couplings make loading and unloading of the sampler very easy. Stainless steel components resist rust and are easily decontaminated for high quality sampling. Shaw offers high quality capped clear plastic liners for preserving and core boxes for storage of soil or rock samples.

### Shaw Portable Core Drill

Part #	Item	Weight
21241	Backpack Drill Rock Coring Kit (25mm)	45.0 lb.
21242	Backpack Drill Rock Coring Kit (41mm)	48.0 lb.
21243	Backpack Drill Rock Coring Kit (51mm)	52.0 lb.

#### 21241- Backpack Drill Rock Coring Kit (25mm) Includes:

Qty	Item
1	Shaw Mark   Engine Drill
1	Water System (Water Swivel, 7 gallon jug, hoses, 12V 60 PSI Pump)
1	T-Handle
1	Core Barrel
1	Core Catcher
1	Knockout Rod
3	Extensions (2ft. Stainless Steel)
2	Segment Type Diamond Bit
1	Elephant Tooth Diamond Bit
1	Loose Materials Bit
1	Adapter
1	Core Breaker
1	Backpack

#### 21242- Backpack Drill Rock Coring Kit (41mm) Includes:

Qty	Item
1	Shaw Mark   Engine Drill
1	Water System (Water Swivel, 7 gallon jug, hoses, 12V 60 PSI Pump)
1	T-Handle
1	Core Barrel
1	Core Catcher
1	Knockout Rod
3	Extensions (2ft. Stainless Steel)
2	Segment Type Diamond Bit
1	Elephant Tooth Diamond Bit
1	Loose Materials Bit
1	Core Breaker
1	Backpack

#### 21243- Backpack Drill Rock Coring Kit (25mm) Includes:

Qty	Item
1	Shaw Mark   Engine Drill
1	Water System (Water Swivel, 7 gallon jug, hoses, 12V 60 PSI Pump)
1	T-Handle
1	Core Barrel
1	Core Catcher
1	Knockout Rod
3	Extensions (2ft. Stainless Steel)
2	Elephant Tooth Diamond Bit
1	Loose Materials Bit
1	Core Breaker
1	41mm to 51mm adapter
1	Backpack



# WORK SMARTER

#299.00 kit shown



## AMS Dual Mass DCP with Vertek Smart DCP Complete

Developed by the Army Corps of Engineers, Dynamic Cone Penetrometers (DCPs) provide a low-cost, efficient test method for quickly determining in-situ CBR values of pavement base, subbase and subgrades. They can readily be used for depths up to 30" and up to 6' with optional drive rods and extensions. This model complies with ASTM D6951 specifications and comes with a chart to compute CBR values. DCPs cover a CBR range from <.05 to 100% and a bearing value range from 430 to 10,800 psf. The Standard DCP Kit measures the shear strength of soil with a CBR between 0.5-100% and from 430 to 10,800 psf. This single-operator kit is ideal for state/county/city highway departments and geotech firms. CBR and psf can be estimated in the field from tables in the manual. It comes with a stainless steel dual-mass (17.6/10.1 lb) hammer and quick-connect upper rod, 30-inch drive rod (27-1/4 inch penetration), a 40-inch vertical scale, upper and lower scale mounts, a reusable hardened point and a disposable cone adapter with 25 disposable cones for fast and easy extraction of the instrument from hard/cohesive soil. The kit also includes a crush-proof Pelican carrying case with transport wheels and wrench set.

Part #	Item	Weight
299.00	AMS Dual Mass DCP with Vertek Smart DCP Complete	70.0 lb.
300.00	AMS Dual Mass Dynamic Cone Pentrometer	56.0 lb.
300.01	Vertek Smart (DCP)	14.0 lb.



### About SmartDCP

SmartDCP for Hand Held Units This innovative new product promises to reduce the manpower required to collect soil behavior data, while also improving accuracy and simplifying field logistics. The system achieves this by:

- Automatically counting blows
- Recording the change in depth with each blow
- Tracking the total depth of the probe
- Recording data on Apple iOS and Android smart devices via Bluetooth 4.0
- Eliminating the need for a ruler, pencil, and paper
- Transferring data via e-mail or USB from the smart device
- Desktop application to organize and plot raw data

The App is free and available in the iOS App Store or Google Play to install on your personal smartphone. The App and hardware combination makes your handheld DCP automated and will provide you and your client better field results and cost savings. We also offer a competitively priced handheld DCP kit with the ability to add rod extensions for deeper investigations. The SmartDCP kit can be mounted to most handheld DCPs on the market and is easily operated by a single person. The smart DCP kit is protected under U.S. Patents No. 7,617,718, No. 8,033,163 and No. 8,485,024.

## Borehole Preparation Kit

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

### 5/8" Threaded, Borehole Preparation Kit

Part #	Item	Weight
400.78	Borehole Preparation Kit	7.0 lb.

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

Part #	Diameter	Length	Item	Weight
400.08	2 1/4"		Regular Auger	1.7 lb.
400.53	2 1/4"		Planer Auger	1.3 lb.
408.02		3'	Extension	1.7 lb.
408.03		4'	Extension	2.3 lb.
406.04		18"	Rubber-Coated Handle	1.3 lb.
430.32		4'	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 1.5 cm<sup>2</sup>. An larger, optional cone with an area of 3 cm<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 70 kg/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
59010	Static Cone Penetrometer Complete	16.0 lb.

### Static Cone Penetrometer Replacement Parts

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

## Dynamic Cone Penetrometer

### Dynamic Cone Penetrometer

Part #	Item	Weight
59000	Dynamic Cone Penetrometer	72.0 lb.

### DCP Replacement Parts & Accessories

Part #	Diameter	Length	Item	Weight
59006	1 3/8"	2 1/2'	External DCP Extension Rod	7.0 lb.
59005	1 3/8"	1'	DCP Drill Rod Extension	3.3 lb.
59004	1 3/8"		DCP Drive Hammer Assembly	28.8 lb.
59003	1 1/2"		DCP Replacement Point w/ Roll Pin (45 degree vertex angle)	1.0 lb.
59001		1'	DCP Adapter Drive with Heat-Treated Drive	3.3 lb.
59002	1/4"	1 1/4"	DCP Spiral Pin for Point	0.1 lb.
ACCESSORIES				
59027	3"	10"	10 Sampler Tubes w/ 10 Caps	18 lb.
59028	3"	10"	Sample Tube	1.8 lb.
59029	3"	10"	SST Sample Tubes	1.8 lb.
59030	3"		Drive Head w/ Screws	4.8 lb.
430.25		36"	3 ft. AMS Deluxe Carrying Case 1700 Black	28.9 lb.



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



Shown with optional carrying case.



#59020



**Field Vane Shear Tester**

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

**Field Vane Shear Tester Kit**

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

**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
400.97	6" ID	12" OD	Infiltration Ring	4.0 lb.
400.98	12" ID	24" OD	Infiltration Ring	7.0 lb.
<b>ACCESSORIES</b>				
11677		37 oz. Dead Blow Hammer		2.4 lb.



## Pocket Vane Shear Test Kit

Easy to use with easy-to-read results:

- Regular vane (0 to 1 kg/cm<sup>2</sup>) : For saturated cohesive soils with undrained strength , independent of normal pressure
- Large vane (0.2 kg/cm<sup>2</sup>): use with remolded samples.
- Small vane (2.5 kg/cm<sup>2</sup>): for stiffer clays.

Comes with:

- Three Vanes
- Allen Wrench
- Carrying Belt Pouch

Advantages:

- All Metal Construction
- Quick and efficient method for determining shear strength values of cohesive soils.
- Metal Vanes are designed to last Long
- TORVANE permits the rapid determination of a large number of strength values with different orientation of failure planes
- Calibrated dial converts torque directly into shear stress in kg/cm<sup>2</sup>. The maximum reading obtained on the dial is the shear strength.
- The TORVANE allows shear strength to be measured in the sides of test pits, trenches or excavations. It may also be used on the ends of thin wall or split spoon samples and soil chunks removed from test pits
- Shipping Weight: 1 lb (0.5kg); 0.2 cu. ft.



#59033

### Pocket Vane Shear Test Kit

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

## Pocket Penetrometer

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



Part # 59032

### Static Cone Penetrometer

Part #	Item	Weight
59032	Pocket Penetrometer	0.75 lb.
59031	Pocket Penetrometer Adapter Foot	0.25 lb.



Part # 59031

## Geo Tester Penetrometer

Geotester dial penetrometer set is used for on-site measurement of soil compaction by testing the foundation plane or boring samples. It gives readings of estimated unconfined compressive strength in TSF or kg/cm<sup>2</sup> when used with the standard 1/4" dia plunger. The geotester is furnished with stainless steel plungers, carrying case, data tables, register plates and instructions. Comes with :

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

### Geotester Dial Penetrometer

Part #	Item	Weight
59035	Geotester Dial Penetrometer	7 lb.



Part # 59035

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**Geotechnical Gauge**

Soil Classification Chart

Soil Type	Color	Typical Description
DRIVES AND GRAVELS	Orange	DR (Drives) - Drives with 10% or more gravel.
CLEAR GRAVELS	Light Orange	GP (Clear Gravels) - Clear gravels with less than 5% fines.
GRAVELS WITH FINES	Yellow	GM (Gravels with Fines) - Gravels with 5% to 12% fines.
CLEAN SAND	Light Green	SW (Clean Sand) - Clean sand with less than 5% fines.
SANDY SANDY SOILS	Green	SM (Sandy Sand) - Sandy sand with 5% to 12% fines.
SANDS WITH FINES	Dark Green	SC (Sands with Fines) - Sands with 12% to 50% fines.
SILTS AND CLAYS	Light Blue	ML (Silt) - Silt with 40% to 60% clay.
CLAYS	Dark Blue	CL (Clay) - Clay with 60% to 80% clay.
Highly Organic Soils	Dark Blue	OH (Organic High Plasticity) - Organic soils with high plasticity.
Highly Organic Soils	Dark Blue	UH (Organic Ultra High Plasticity) - Organic soils with ultra high plasticity.



## AMS Cross Handles

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



### Signature Series, Cross Handles

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

### 3/4" Threaded, Cross Handles

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

### 5/8" Threaded, Cross Handles

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

### Quick Connect, Cross Handles

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

### Ratcheting Handle Replacement Parts

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

### Hex Quick Pin, Cross Handles

Part #	Length	Item	Weight
58504	18"	Rubber-Coated Cross Handle	1.3 lb.
306.071	18"	Ratcheting Cross Handle	2.4 lb.

## Rock Breaker Kit

Rock breaker kits include two alloy steel, sharp-edged chisels. The flat edges of AMS rock breakers are 1 3/4" and 2 1/2". They are used to 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 3/4" and 5/8" threaded slide hammers.



### 3/4" Threaded Rock Breaker

Part #	Item	Weight
424.001	Rock Breaker Kit	1.5 lb.

### 5/8" Threaded Rock Breaker

Part #	Item	Weight
424.00	Rock Breaker Kit	1.5 lb.

### Quick Connect Rock Breaker

Part #	Item	Weight
324.00	Rock Breaker	1.5 lb.

## AMS Slide Hammers

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

### Signature Series, Slide Hammers

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

### 5/8" Threaded, Slide Hammers

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

### 3/4" Threaded, Slide Hammers

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

### Hex Quick Pin, Slide Hammer

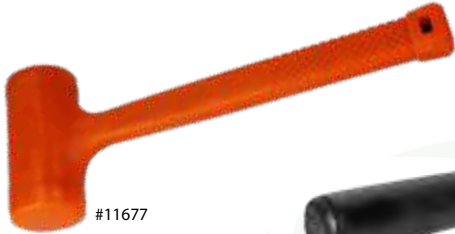
Part #	Item	Weight
58506	Hex Quick Pin Slide Hammer	10.3 lb.



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

## Hammer-Head Cross Handle

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



#11677



#401.27



#401.27

### Hex Quick Pin, Cross Handles

Part #	Item	Weight
11677	37oz Dead Blow Hammer	2.40 lb.
401.27	12" Hammer Head Cross Handle (5/8" Thread Connection)	4.25 lb.

## AMS Extensions

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

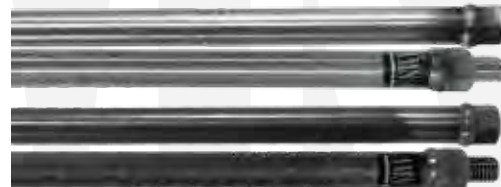
### Signature Series Extensions

Part #	Length	Material	Weight
351.00	1'	4130 chromoly	0.8 lb.
351.01	2'	4130 chromoly	1.2 lb.
351.02	3'	4130 chromoly	1.7 lb.
351.03	4'	4130 chromoly	1.7 lb.
351.04	5'	4130 chromoly	2.4 lb.



### 5/8" Threaded Extensions

Part #	Length	Material	Weight
408.00	1'	4130 chromoly	0.8 lb.
408.01	2'	4130 chromoly	1.2 lb.
408.02	3'	4130 chromoly	1.7 lb.
408.03	4'	4130 chromoly	2.3 lb.
408.04	5'	4130 chromoly	2.4 lb.
409.06	1'	SST	0.8 lb.
409.07	2'	SST	1.3 lb.
409.08	3'	SST	1.7 lb.
409.09	4'	SST	2.2 lb.
409.10	5'	SST	2.6 lb.



### 3/4" Threaded Extensions

Part #	Length	Material	Weight
407.01	1'	4130 chromoly	1.0 lb.
407.02	2'	4130 chromoly	1.5 lb.
407.03	3'	4130 chromoly	2.0 lb.
407.04	4'	4130 chromoly	2.5 lb.
407.05	5'	4130 chromoly	3.0 lb.
402.33	3'	Powder Coated 4130	2.0 lb.
402.32	4'	Powder Coated 4130	2.5 lb.



### Quick Connect Extensions

Part #	Length	Material	Weight
309.00	1'	4130 chromoly	1.9 lb.
309.01	2'	4130 chromoly	2.3 lb.
309.02	3'	4130 chromoly	2.7 lb.
309.03	4'	4130 chromoly	3.2 lb.
309.04	5'	4130 chromoly	3.6 lb.
309.06	1'	SST	1.9 lb.
309.07	2'	SST	2.4 lb.
309.08	3'	SST	2.8 lb.
309.09	4'	SST	3.2 lb.
309.10	5'	SST	3.7 lb.



### Hex Quick Pin Extensions

Part #	Length	Material	Weight
58509	1'	4130 chromoly	1.9 lb.
58513	2'	4130 chromoly	2.3 lb.
58514	3'	4130 chromoly	2.7 lb.
58505	4'	4130 chromoly	3.2 lb.
58515	5'	4130 chromoly	3.6 lb.





#351.90 #413.02 #351.91 #351.95 #413.01 #351.94

### Connection Adapters

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

#### Connection Adapters

Part #	Item	Weight
351.90	5/8" Threaded Male to Sig. Series Female	0.8 lb.
413.02	5/8" Threaded Male to Quick Connect Female	1.0 lb.
351.91	Signature Series Male to 5/8" Threaded Female	0.8 lb.
351.95	Signature Series Male to Quick Connect Female	0.8 lb.
413.01	Quick Connect Male to 5/8" Threaded Female	1.0 lb.
351.94	Quick Connect Male to Sig. Series Female	0.8 lb.
56857	3/4" Male to 5/8" Female	1 lb.
62704	5/8" Male to 3/4" Female	1 lb.



#430.32 #430.00 #430.01

### Cleaning Brushes

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



#430.17 #430.05 #430.07 #430.09

#### Cleaning Brushes

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

### Tooling Cases

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

#### Tooling Cases

Part #	Length	Item	Weight
430.01	4'	Deluxe Carrying Case (54" x 18" x 6")	28.9 lb.
424.62	2'	Mini Carrying Case (26" x 13" x 6")	20 lb.
430.02	3'	Poly-Canvas Case	2.0 lb.
430.04	4'	Poly-Canvas Case	2.0 lb.
430.00	3'	Poly-Canvas Core Sampler Case	2.0 lb.
430.31	3'	Signature Poly-Canvas Case	2.0 lb.
430.32	4'	Signature Poly-Canvas Case	2.0 lb.
430.25	3'	3' Deluxe Carrying Case (45" x 18" x 6")	25 lb.

### Wrenches

Wrenches are used to assemble and disassemble threaded sampler components.



#421.29 #425.77 #421.10

#### Wrenches

Part #	Item	Weight
421.10	12" 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.
14327	14" Pipe Wrench	2.5 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.



#309.12 #300.90

#### Quick Connect Repair Kit

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



### Munsell® Soil Color Chart Binder

The book is organized to make it faster and easier for you to identify and communicate the color of soil in the field. Soil color indicates the makeup of the soil within a given geographic area, which can influence the land's fitness for use, such as wetlands, optimum crops to plant, viability for waste water systems and other uses.

#### Munsell Soil Books Include the Following Soil Color Charts:

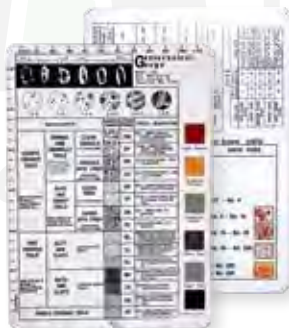
- Munsell 10R Soil Chart
- Munsell 10YR Soil Chart
- Munsell 2.5Y Soil Chart
- Munsell 2.5YR Soil Chart
- Munsell 5Y Soil Chart
- Munsell 5YR Soil Chart
- Munsell 7.5YR Soil Chart
- 10Y – 5GY Colors – Olive greens Soil Chart
- Gley 1 & 2 Soil Charts (2 – Separate Soil Charts)
- Munsell 5R Individual Soil Chart
- Munsell 7.5R Individual Soil Chart
- “New” White Page, 7.5R, 10YR, & 2.5Y

#### Munsell® Soil Color Chart Binder

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

### McCullough 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.



#### McCullough Geo Guide Card and Geotechnical Gauge

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

#### Additional Field Guides

Part #	Item	Weight
504.21	USDA Soil Texturing Field Flow Chart	0.1 lb.
504.22	Field Guide for Soil and Stratigraphic Analysis	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 18" in length, 5 1/4" in width at top, and tapers to 4 1/4" in width at bottom. The handle is 29" long, and is available with rubber coating to reduce recoil from striking rocks. These shovels are made using heavy-duty, 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 3/4" x 11". The overall length of the shovel is 54".

#427.90



### Scoops

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

#### Shovels & Scoops

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

# Plastic, Stainless Steel, Brass & Aluminum Liners

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



## Stainless Steel Liners

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

## Plastic Liners

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

## Aluminum Liners

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

## Brass Liners

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

\*No returns are accepted for Plastic Liners.

## Safety Liner Splitter

The AMS Safety Liner Splitter allows you to split liners up to 13-3/4" in length. This adjustable liner splitter accepts liner diameters as small as 3/4" OD all the way up to 3" OD. Each liner splitter comes with a safety utility knife with spring-loaded retractable blade and (10) extra hook blades. This device offers a safe alternative for splitting liners open lengthwise in the field.

### Safety Liner Splitter

Part #	Item	Weight
61701	Safety Liner Splitter	5.3 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 2" core catchers are used with core, split-core, and sludge & sediment samplers. The 1" core catcher is used with the sand & sediment probe.

### Core Catcher

Part #	Diameter	Item	Weight
61882	1"	Core Catcher	0.1 lb.
61883	1 3/8"	Core Catcher	0.1 lb.
61876	1 1/2"	Core Catcher	0.1 lb.
404.91	2"	Core Catcher	0.1 lb.
404.90	2"	Eggshell Catcher	0.1 lb.
61884	2 1/2"	Core Catcher	0.1 lb.
61878	2 3/4"	Core Catcher	0.1 lb.
61885	3"	Core Catcher	0.1 lb.

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

## Liner End Caps

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



### Liner End Caps

Part #	Diameter	Weight
425.22	3/4"	0.1 lb.
425.18	1"	0.1 lb.
418.11	1 3/8"	0.1 lb.
418.08	1 1/2"	0.1 lb.
418.10	2"	0.1 lb.
404.85	2 1/2"	0.1 lb.
418.09	3"	0.1 lb.

## Fluoropolymer Film

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



### Fluoropolymer Film

Part #	Thickness	Width	Item	Weight
418.16	.003"	4"	100ft Roll of Perforated Fluoropolymer Film	1.3 lb.
418.17	.003"	4"	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 1/2" 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:	1/2"	n/a	n/a
Max. Torque at Engine:	n/a	n/a	1.49' lbs.
Max. Torque at Auger:	n/a	n/a	44.9' lbs.
Dry Weight:	13.0 lb.	13.3 lb.	21.4 lb.

## End Cap Inserts

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

### End Cap Inserts

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

## Gas Drill Accessories

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



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



#213.92

#213.94

### 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	#213.94 DeWALT D25763K
AMPS 120V:	11.5	15
Max Watts Out:	1,000 w	n/a
No Load Speed:	140-280 rpm	125-250 rpm
Weight:	34.0 lb.	19.1 lb.

### Gas Powered REDI Boss Hammer

Gas Powered REDI Boss Hammer With 3 1/8" Barrel Includes Friction Fit 2" Reducer Sleeve For 3 1/8" Barrel



#213.95

#### Gas Powered REDI Boss Hammer

Part #	Item
213.93	REDI Boss Hammer
213.95	Carrying Case w/ fuel can

#213.93

### Drill Adapters

Part #	Item	Weight
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	5/8" NC Male to 1/2" Gas Drill Adapter	0.4 lb.
214.20	5/8" NC Male to SDS-Max Drill Adapter	0.8 lb.
214.50	5/8" NC Male to SDS-Plus Drill Adapter	0.8 lb.
405.27	5/8" NC Male to Splined Drill Adapter	0.6 lb.
213.46	5/8" NC Male to EA-410 Drill Adapter	0.7 lb.
213.48	5/8" NC Male to EA-410 Spring Adapter	3.9 lb.
213.44	5/8" NC Female to 5/8" Male Gas Drill Spring Adapter	3.9 lb.
213.46	3/4" Threaded Male to EA-410Adapter	



#213.50 #214.50 #213.46 #213.48 #214.20 #405.27

### COBRA PRO Gas Hammer

COBRA PRO Gas Breaker 1 1/4 x 6" Shank



#213.96

#213.97

#### Cobra Pro Gas Breaker

Part #	Item
213.96	COBRA PRO Gas Breaker 1 1/4 x 6" Shank
213.97	Hammer Anvil Cobra Pro 1-1/4 x 6

### Rocky Soil Screw Augers

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

### Concrete Bits

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

### Concrete Coring Bits

Part #	Diameter	Length	Item	Adapter	Weight
260.51	2"	16"	Concrete Core Bit	SDS-Max	3.7 lb.
260.37	3"		Concrete Core Bit	SDS-Max	4.0 lb.
260.35	3"		Concrete Core Bit	Splined	4.0 lb.
260.40	3"		Heavy-Duty Concrete Core Bit	Splined	7.2 lb.
260.42	3"		Heavy-Duty Concrete Core Bit	SDS-Max	6.8 lb.

### Concrete Coring Bits Replacement Parts & Accessories

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



#214.28 #214.26 #260.37 #260.42

### 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.

## 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.



#215.00



### GVP Tubing Options

Part #	Item	Weight
5004.47	#15 x 50' Silicone Tubing	2.4 lb.
5004.48	#15 x 500' Silicone Tubing	26.9 lb.
5004.53	#16 x 25' Silicone Tubing	2.0 lb.
214.98	3/16" ID x 1/4" OD x 50' Fluoropolymer Tubing	1.1 lb.
214.99	3/16" ID x 1/4" OD x 100' Fluoropolymer Tubing	2.1 lb.
215.00	3/16" ID x 1/4" OD x 250' Fluoropolymer Tubing	5.1 lb.
215.12	3/16" ID x 1/4" OD x 500' Polyethylene Tubing	8.2 lb.
215.03	1/4" ID x 3/8" OD x 50' Fluoropolymer Tubing	1.0 lb.
215.04	1/4" ID x 3/8" OD x 100' Fluoropolymer Tubing	2.0 lb.
10658	1/4" End Caps	0.1 lb.

## 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
2105.93	Sterile and Greaseless Luer Slip, 50 ml Syringe
2105.94	Sterile and Greaseless Luer Lock, 50 ml Syringe
2105.96	White Syringe Caps (100 qty)
2105.98	Sterile 3-way Stopcock/Valve



#5052.40

## AMS Foot Jack

AMS GVP Foot Jack is specifically designed to extract AMS 5/8" diameter gas vapor probe extension rods. The special open slot design on the shackle/jaws allow you to rapidly connect and disconnect from the extension strand. There is no need to thread on any type of T-jack adapter with this foot removal jack. The pair of jaws are designed to grab directly onto the GVP extension rods in order to extract your extension strand quickly & efficiently.

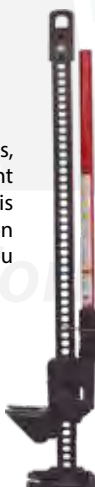
### AMS Foot Jack

Part #	Item
61431	Foot Jack Only
61564	GVP Foot Jack Shackles
61568	2" Foot Jack Shackles
61569	2 1/8" Foot Jack Shackles
61565	3" Foot Jack Shackles
61572	2 1/2" Foot Jack Shackles
61540	1 1/4" Foot Jack Shackles
61432	GVP Foot Jack



#61568

#61431

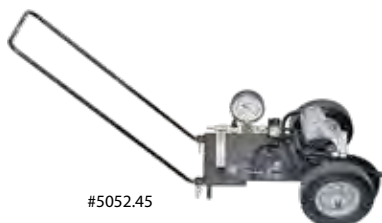


## Removal Jack

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

### Removal Jack

Part #	Item	Weight
211.05	Removal Jack	30 lb.
211.06	5/8" Female Tee Jack Adapter	1.1 lb.
18253	Big Foot Removal Jack	35 lb.
211.09	3/4" Female Tee Jack Adapter	1.1 lb.



#5052.45

## 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
5052.45	Vacuum Station

## Vacuum Pumps

The hand vacuum pump is a simple system for both soil gas and groundwater sampling. It has a vacuum gauge release valve and fittings. For sites with no accessible electricity, samples can be taken into suitable test containers. The 12-volt vacuum pump is a diaphragm-style pump that is used for filling test containers. It has a 15" cord and plug. It is portable, and the pump will collect soil gas and groundwater samples into containers.



#215.06

### Vacuum Pumps

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

## Tedlar Bags

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

### Tedlar Bag

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



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