SOIL SAMPLING

Soil Augers - AMS
Soil Augers - Dormer
Shovels
Soil Sampling - AMS
Soil Vapour Sampling
Soil pH
Soil Test Kits
Other Soil Meters
**SOIL SAMPLING & MONITORING**

**AMS - Soil Augers**

- Augers for almost any soil condition

AMS offer a wide range of soil sampling options for most conditions.

AMS soil augers are commonly used for obtaining disturbed samples at or near the surface and for boring to depths where samples may be obtained with a soil sampler or soil core sampler. AMS augers are available in all stainless steel or carbon steel bits with stainless steel cylinders for general soil sampling and augering.

Perfect for augering shallow depths, AMS soil augers can also auger deeper depths and are generally limited by only the time and muscle of the user.

**Features**

- Auger heads available: regular, mud, sand, planer (flat bottom) and dutch (fibrous material).
- Available from 37mm to 375mm.
- Carbon steel or stainless steel heads, extensions and cross handles available.
- Extensions available from 300mm to 1500mm lengths.
- Quick Connect, Standard or Signature series threaded connections available.
- Wide range of pre-packaged kits and minikits available for complete soil sampling operations.
- Wide range of sampling heads for sludges, and fluidic sediments.
- Range of hollow stem augers for collecting soil cross sections.
- Range of auger kits available for drilling holes to depth prior to sampling.

**Regular Auger**

The regular auger is used for general sampling points. The auger bits are open to allow entry of small soil clumps and relatively small rock particles.

**Ordering Information**

<table>
<thead>
<tr>
<th>Size</th>
<th>Threaded Connection</th>
<th>Signature Series</th>
<th>Quick Connect (QC)</th>
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<tbody>
<tr>
<td>50mm (2.0in.) Regular Auger</td>
<td>AMS400.09 Carbon Steel Threaded (5/8in.)</td>
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<td>AMS413.31 Carbon Steel Reinforced QC</td>
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<td>AMS413.05 Carbon Steel Reinforced Threaded</td>
<td>AMS414.13 Carbon Steel Reinforced QC</td>
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**AMS Reinforced Augers**

AMS reinforced augers are adaptations of the popular regular soil, mud, and sand augers. They are specially designed for heavy-duty augering. Three additional gussets provide additional 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.

- Other sizes also available

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*Image of a regular auger and AMS reinforced auger*
**Mud Auger**

Has an opening cut out of the cylinder for easy removal of heavy, wet soil and clay samples. Bits are similar to regular augers but are spaced further apart.

**Ordering Information**

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SOIL SAMPLING & MONITORING

**Open-Faced Auger**
Unique design of cutting head pulls itself into the ground with little effort and makes this auger useful in combination soils, from mud/clay to hard-pan. The open-face design is useful for quick visual profile of soil sample and for easy soil extraction. Composted of Carbon Steel.

![Open-Faced Auger](image)

**Ordering Information**
- **AMS400.57**: 63mm (2-1/2in.) Signature Open-Faced Auger
- **AMS400.55**: 63mm (2-1/2in.) Threaded, Open-Faced Auger
- **AMS400.56**: 63mm (2-1/2in.) QC Open-Faced Auger

**Dutch Auger**
Excellent for drilling extremely wet, boggy soil and fibrous, heavily rooted swampy areas. Forged from high-carbon spring steel, it is only available in 7.6cm (3in.) and 5cm (2in.) diameter.

![Dutch Auger](image)

**Ordering Information**
- **AMS400.59**: Carbon Steel Threaded 50mm (2in.) Dutch Auger
- **AMS300.59**: Carbon Steel QC 76mm (3in.) Dutch Auger

**Gouge Auger**
Designed for collection of undisturbed samples from very soft and preferably very wet soils with minimal disturbance of soft cohesive layers. Constructed from a long, tapered stainless steel, semi-cylindrical chamber which is pushed into the soil, twisted and recovered to display a full and virtually undisturbed profile of peaty soil.

![Gouge Auger](image)

**Ordering Information**
- **AMS53764**: 63mm (2 1/2in.)x 1016mm SST Gouge Auger
- **AMS54545**: 32mm (1-1/4in.)x 1016mm Gouge Auger

**Flighted Screw Auger**
Extra heavy duty screw-type auger is used for taking smaller samples. Flighting is 150mm in length.

![Flighted Screw Auger](image)

**Ordering Information**
- **AMS405.02**: Carbon Steel Threaded 38mm (1 1/2in.) Flighted Screw Auger
- **AMS505.02**: Carbon Steel QC 44mm (1-3/4in.) Flighted Screw Auger

**Finger Ring**
Each Quick Connect piece is supplied with a separate Finger Ring. This is used to push in the spring loaded pin to easily disassemble the joint.

![Finger Ring](image)

**Ordering Information**
- **AMS309.12**: Finger Ring for QC
- **AMS300.90**: Repair Kit for QC (Includes: screw, spring & hex key)

**50mm (2in.) Dutch Auger**
- **AMS400.59**: Carbon Steel Threaded
- **AMS300.59**: Carbon Steel QC

**76mm (3in.) Dutch Auger**
- **AMS400.61**: Carbon Steel Threaded
- **AMS300.61**: Carbon Steel QC

**44mm (1-3/4in.) Flighted Screw Auger**
- **AMS405.03**: Carbon Steel Threaded
- **AMS505.03**: Carbon Steel QC

**50mm (2in.) Flighted Screw Auger**
- **AMS405.05**: Carbon Steel Threaded
- **AMS505.01**: Carbon Steel QC
**AMS Extensions**

Extensions for all AMS sampling equipment are available with either 5/8in. (16mm) NC threaded or AMS hexagonal quick connect fittings in chrome molybdenum type 4130 steel or stainless steel. The quick connect fitting has a positive locking spring loaded pin. This fitting is made of cast steel on both the 4130 and stainless extensions. Augers with diameters 15.24 (6in.), 17.78cm (7in.) & 20.32cm (8in.) have a 3/4in. (20mm) NC fitting.

**Ordering Information**

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<tr>
<td>AMS351.00</td>
<td>Sig. Series</td>
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**AMS Cross Handles**

**Standard Cross Handle**

Cross handles are made from 4130 chrome molybdenum steel or stainless steel. The 4130 models are also available with baked on rubber coating for increased operator comfort.

**Ratchet Cross Handle**

Save your back with the AMS Ratchet T-Handle.

Choose from the thread-on or quick-connect models. Both feature a forward and reverse action. Handles are rubber-coated for added comfort. Constructed of chrome molybdenum steel. Save time and eliminate fatigue with this 406mm ratchet cross handle.

**Ordering Information**

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<td>AMS351.56</td>
<td>47cm Sig Series Ratchet Cross Handle</td>
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**Connection Adapters**

Adapters add quick conversion of your current Signature Series, 5/8” threaded or Quick Connect connections.

Signature Series adapters add versatility to AMS augers. Easily adapt your current 5/8in. threaded or Quick Connect connections to the Signature Series product line.

**Ordering Information**

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**Soil Auger Field Kit**

Pack flat for easy transport

This kit is ideal because of its simplicity. Available in the 5/8in. threaded connection only, the kit comes complete with one regular auger, one 1.2m extension, and a 16in. rubber-coated cross handle. You can't get much simpler than that.

**One-Piece Augers**

Powder-coated (black) for rust resistance and equipped with a 400mm rubber-gripped cross handle for a total length of 134cm. This lightweight (1.8kg) one-piece auger is an inexpensive alternative. Carbon steel auger bits are sharpened and heat-treated.

**Open-Face One-Piece Auger**

A one-piece design is all you need to penetrate depth in combination soils. Thick, 10 gauge high carbon steel has been hand-formed with an aggressive cutting head, yielding quicker soil penetration. Unique design of cutting head pulls itself into the ground with little effort and makes this auger useful in combination soils, from mud/clay to hard pan. Equipped with a 16in. rubber-gripped cross handle for a total length of 52in., the open-face design is useful for quick visual profile of soil sample and for easy soil extraction.

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**Ordering Information**

AMS400.14 82mm (3 1/4in.)
Regular Auger Kit
AMS400.141 82mm (3-1/4in.) Regular Auger Kit Sig. Series
AMS400.142 82mm (3-1/4in.) Regular Auger Kit QC

AMS400.54 One-Piece 63mm (2-1/2in.)
Open-Face Auger

AMS400.40 One Piece 70mm (2-3/4in.)
Regular Auger
AMS400.41 One Piece 100mm (4in.)
Regular Auger
AMS400.49 One Piece 70mm (2-3/4in.)
Mud Auger
AMS400.47 One Piece 100mm (4in.)
Mud Auger
**AMS Mini Soil Auger Kit Alloy or Stainless Steel**

Compact/complete kits for auger simplicity. Signature series kits are available in 3 1/4” auger size. The 5/8” threaded and Quick Connect kits are available in 2 1/4” or 3 1/4” auger sizes. The stainless steel (SST) kit is popular for critical environmental sampling.

**Ordering Information**

- **AMS352.73** 82.55mm (3-1/4in.) x 0.9m Signature Series Mini Kit
- **AMS352.74** 82.55mm (3-1/4in.) x 1.2m Signature Series Mini Kit
- **AMS209.73** 57mm (2-1/4in.) x 0.9m Threaded Mini Kit
- **AMS209.74** 57mm (2-1/4in.) x 1.2m Threaded Mini Kit
- **AMS209.78** 57mm (2-1/4in.) x 0.9m QC Mini Kit
- **AMS209.79** 57mm (2-1/4in.) x 1.2m QC Mini Kit
- **AMS209.71** 82.55mm (3-1/4in.) x 0.9m Threaded Mini Kit
- **AMS209.72** 82.55mm (3-1/4in.) x 1.2m Threaded Mini Kit
- **AMS209.77** 82.55mm (3-1/4in.) x 0.9m QC Mini Kit
- **AMS209.78** 82.55mm (3-1/4in.) x 1.2m QC Mini Kit
- **AMS209.74** 57mm (2-1/4in.) x 0.9m Threaded SST Mini Kit
- **AMS209.75** 57mm (2-1/4in.) x 1.2m Threaded SST Mini Kit
- **AMS209.72** 82.55mm (3-1/4in.) x 0.9m Threaded SST Mini Kit
- **AMS209.73** 82.55mm (3-1/4in.) x 1.2m Threaded SST Mini Kit
- **AMS209.79** 57mm (2-1/4in.) x 0.9m QC SST Mini Kit
- **AMS209.78** 57mm (2-1/4in.) x 1.2m QC SST Mini Kit
- **AMS209.77** 82.55mm (3-1/4in.) x 0.9m QC SST Mini Kit
- **AMS209.78** 82.55mm (3-1/4in.) x 1.2m QC SST Mini Kit

**Carbon Steel**

- **AMS209.73** 82.55mm (3-1/4in.) x 0.9m Signature Series Mini Kit
- **AMS209.74** 82.55mm (3-1/4in.) x 1.2m Signature Series Mini Kit
- **AMS209.73** 57mm (2-1/4in.) x 0.9m Threaded Mini Kit
- **AMS209.74** 57mm (2-1/4in.) x 1.2m Threaded Mini Kit
- **AMS209.78** 82.55mm (3-1/4in.) x 0.9m QC Mini Kit
- **AMS209.79** 82.55mm (3-1/4in.) x 1.2m QC Mini Kit
- **AMS209.74** 57mm (2-1/4in.) x 0.9m QC SST Mini Kit
- **AMS209.75** 57mm (2-1/4in.) x 1.2m QC SST Mini Kit
- **AMS209.78** 82.55mm (3-1/4in.) x 0.9m QC SST Mini Kit
- **AMS209.79** 82.55mm (3-1/4in.) x 1.2m QC SST Mini Kit

**Stainless Steel**

- **AMS209.74** 57mm (2-1/4in.) x 0.9m QC Mini Kit
- **AMS209.75** 57mm (2-1/4in.) x 1.2m QC Mini Kit
- **AMS209.78** 82.55mm (3-1/4in.) x 0.9m QC Mini Kit
- **AMS209.79** 82.55mm (3-1/4in.) x 1.2m QC Mini Kit

**Ordering Information**

- AMS430.02 Poly-Canvas Bag, Green, to suit 0.9m extensions
- AMS430.04 Poly-Canvas Bag, Green, to suit 1.2m extensions

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**Carry Bag**

For soil sampling equipment

This soft carry case is the convenient, lightweight way to transport your soil augers and extensions. It will hold 4 extensions and 2 augers heads.

The case is durable, waterproof and U.V. resistant. The auger pockets are double reinforced for extra wear, the nylon webbed handle is perfectly balanced for ease of carrying and the nylon webbed straps have long-life buckles. Made of poly-canvas this case is washable with mild detergent and will not shrink.
### AMS Basic Soil Sampling Kit - Carbon Steel

This kit gives you the ability to auger in most materials up to 300mm and then collect a soil core sample.

### AMS Environmental Soil Sampling Kit - SS

All stainless steel for environmental sampling. Used in soils with low levels of contaminants or where equipment will be cleaned using a decontamination bath technique. Contains the same components as the basic kit but in all stainless.

### Stainless Steel Spade Shovel & Scoops

Shovel made from durable stainless steel withstands caustic and corrosive materials that would normally damage other types of shovels. Stainless steel is also easily decontaminated after use. Pointed spade has front-rolled step and measures 7-3/4in.W x 1in.D. Fine cutting edge makes digging easy in compacted material. Overall length is 54”.

Scoops may be used for sampling or compositing. The AMS range of 5 sizes has been the industry standard for this purpose for well over a decade. They feature passivated 300 series stainless steel construction and are sized by the approximate weight in ounces. They are available with or without a rubber handle. A folding version is also available with a holster.

### Ordering Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AMS427.90</td>
<td>SST Spade Shovel</td>
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<tr>
<td>AMS427.82</td>
<td>#2 SST Scoop w/Rubber Grip</td>
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<td>AMS427.86</td>
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<td>AMS427.95</td>
<td>U-dig-it w/Nylon Holster</td>
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<tr>
<td>AMS427.96</td>
<td>U-dig-it w/Leather Holster</td>
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</tbody>
</table>

Ordering Information

**Including:** Regular, sand and mud auger, rubber coated cross handle, soil core sampler, slide hammer, three 1.2m extensions, plastic liner, plastic end caps, wrenches, and cleaning brushes in a rugged, foam-padded hard carrying case with handles and wheels.

<table>
<thead>
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<tbody>
<tr>
<td>AMS352.53</td>
<td>57mm (2-1/4in.) Signature Series Basic Soil Sampling Kit</td>
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<td>57mm (2-1/4in.) Threaded Basic Soil Sampling Kit</td>
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<td>AMS209.51</td>
<td>82.55mm (3-1/4in.) Threaded Basic Soil Sampling Kit</td>
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Ordering Information

**Including:** Regular, sand and mud augers, cross handle, split soil core sampler, slide hammer, three 1.2m extensions, plastic liner, plastic end caps, wrenches, and cleaning brush in a rugged, foam-padded hard carrying case with handles and wheels.

**Deluxe kit also includes:** 25 plastic liners, 50 plastic end caps, 50 fluoropolymer swatches for enhanced core sealing and a #2 AMS stainless steel scoop.

<table>
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<th>Code</th>
<th>Description</th>
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<tr>
<td>AMS209.57</td>
<td>57mm (2-1/4in.) Threaded Environmental Kit</td>
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<td>AMS209.55</td>
<td>82.55mm (3-1/4in.) Threaded Environmental Kit</td>
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<td>AMS209.58</td>
<td>57mm (2-1/4in.) Threaded Deluxe Environmental Kit</td>
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<tr>
<td>AMS209.56</td>
<td>82.55mm (3-1/4in.) Threaded Deluxe Environmental Kit</td>
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</table>
Dormer - Soil Augers
Australian made soil augers with proven designs

Dormer Australian made augers feature a range of general and dedicated designs for various soil types. Extensions enable the operator to auger to various depths. Rugged in design, these augers perform consistently over a long working life. Available in a wide variety of diameters for different hole sizes.

Material
Available in:
- Standard blue painted steel (painted for protection)
- Stainless steel - for critical sampling and acid cleaning
- Aluminium - extensions only

Size
Dormer equipment is sized in accordance with the nominal Outside Diameter (OD) of the tube or pipe it is made from. Each different type of auger has different cutter designs and therefore cuts a slightly different sized hole. The Sand Augers cut approximately 5mm larger than the nominated size and the Soil Augers cut approximately 10mm larger. The standard nominal sizes are 50mm, 62mm, 75mm & 100mm other sizes as special orders. The auger heads are generally 450mm long with a tubular shank to make the overall length either 1.0 or 1.5 metres. All Dormer augers cutters are case hardened in a furnace as standard, or a hot spray-on tungsten carbide hardening is available as an optional extra.

The augering equipment is available with the “Coarse” thread (1 1/8” Acme).

Benefits
- Low cost, high strength auger system
- Breaks down for easy transport
- Variety of connection types to suit your preference
- Available in standard and SS material for different sampling requirements.

Sand Auger
Originally designed to sample for minerals in beach sands the Sand Auger is used extensively for drilling and sampling in very sandy friable soils. A 75mm diameter sand auger will penetrate 30cm in about 4 turns, which fills the auger. In good conditions, one man can drill 10 metres in an hour, two men can drill 20 metres in two hours and 40 metres takes most of the day. Available in 50, 62, 75 & 100mm diameter x 1m or 1.5m length.

General Purpose Auger
The most popular auger which is a general purpose design to handle most soil conditions, even very sandy soils. In stiff dry clay, penetration can be improved by adding a little water to the hole. It is a 2 slot, 2 cutter, with a spiral tip design. Available in 50, 62, 75 & 100mm diameter x 1m or 1.5m length.

Ordering Information

<table>
<thead>
<tr>
<th>Auger Type</th>
<th>Diameter x Length</th>
<th>Weight</th>
<th>Thread Type</th>
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<tr>
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<td>DORSAS7510C</td>
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<td>DORSAS10010C</td>
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<td>2.8 kg</td>
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</table>

1.5 M long shanks on augers also available

Ordering Information

<table>
<thead>
<tr>
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<th>Weight</th>
<th>Thread Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DORSA5010C</td>
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<td>DORSA7510C</td>
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<tr>
<td>DORSA10010C</td>
<td>100mm x 1.0 M steel</td>
<td>3.3 kg</td>
<td>coarse thread</td>
</tr>
</tbody>
</table>

1.5 M long shanks on augers also available
General Purpose & Gravely Soils Auger
An older design, this auger performs slightly better in gravely soils. It is a 2 slot 2 cutter, without spiral tip design. Available in 50, 62, 75 & 100mm diameter x 1m or 1.5m length.

Ordering Information
DORSON5010C 50mm x 1.0m steel 2.2 kg, coarse thread
DORSON6210C 62mm x 1.0m steel 2.3 kg, coarse thread
DORSON7510C 75mm x 1.0m steel 2.6 kg, coarse thread
DORSON10010C 100mm x 1.0m steel 3.1 kg, coarse thread

Jarret Auger
For taking small samples but may be subject to sample mixing causing contamination. Available in 50, 75 or 100mm head only (extension required) with choice of fine, coarse or pipe threads.

Ordering Information
DORJAS0C 50mm x 200mm head 0.8 kg, coarse, pipe
DORJAS75C 75mm x 250mm head 1.3 kg, coarse, pipe
DORJAS100C 100mm x 300mm head 2.1 kg, coarse, pipe

Spiral Auger
Used to drill hard compacted soils or decomposed rock, they drill faster and are stronger than soil augers but require greater care for accurate sampling. Available in 50 and 62mm diameters and either full length or a 300mm spiral piece mounted on a tubular steel shank.

Ordering Information
DORSOD5010C 50mm x 1.0m hard soils 2.0 kg
DORSOD6210C 62mm x 1.0m hard soils 2.2 kg
DORSOD7510C 75mm x 1.0m hard soils 2.3 kg

Soft/Wet Clay Auger
A fast penetrating auger for sticky clays with a design to enable easier cleaning and emptying. Available in 48 or 63mm diameter x 1m or 1.5m length or auger-head-only designs as shown.

Ordering Information
DORSOC48C 48 mm OD, coarse thread
DORSOC4810C 48 mm OD x 1.0m steel, coarse thread
DORSOC63C Head only, 63 mm OD, coarse
DORSOC6310C 63 mm OD x 1.0m, coarse thread

Extension Rods
A range of extension rods, 1.0m or 1.5m in painted steel, stainless steel and aluminium. 40 mm diameter. Screwed connection type with side holes to use Tommy bars.

Ordering Information
DOREXT4010AC 40MMX1.0 m Aluminium
DOREXT4010SC 40mmx1.0 m Painted steel
DOREXT4005AC 40mmx0.5 m Aluminium
DOREXT4005SC 40mm x 0.5 m, Painted steel

Accessories
T-Handles & Tommy Bars
T-handles in a variety of lengths. Used with Tommy bars for more leverage and to prevent the augers from falling down the hole.

Ordering Information
Tee handles
DORTHSC Standard 470 mm wide, Painted steel
DORTHLC Extra long 600 mm wide, Painted steel

Carry Bag
DORCBAG10 Canvas bag with steel carry handle, fits 4 augers, 4 ext. 1 Tee handle

Adaptors
DORADAPT Adapter to fit Dormer equipment to almost any other augering equipment.
**Gouge Auger**

Take undisturbed samples from very soft and preferably very wet soils. It is made from a tapered stainless steel half-tube that is pushed into the soil, turned to cut the core and then withdrawn containing the “plug” of soil. It can be used on the surface or down an augered hole but resampling is limited by the hole collapsing.

**Dormer Soil Auger Kits**

**Ordering Information**

- **DORKIT50AC** 50mm sand auger, 50mm general purpose, T-handle, 6 x aluminium extensions, tommy bars and 1m carry bag
- **DORKIT62SC** 62mm general purpose auger, 62mm spiral auger, 6 x steel extensions, t-handle, tommy bars and 1 1/2" x 12" nylon brush, AMS deluxe carrying case.

**AMS Flighted Auger Kit**

Designed to speed up sampling of soil, soil gas and shallow water, this flighted auger kit includes everything you need to rapidly drill small diameter access holes nearly 3m deep (depending on soil conditions). The first 1/2m of the base section auger flights are tungsten carbide coated for extended wear. Quick Connect version features reverse augering capability and quicker connection.

**Ordering Information**

- **DORKIT50AC** 50mm (2”) Flighted Auger Kit, w/o Drill, Alloy Steel
- **DORKIT62SC** 50mm (2”) SST Flighted Auger Kit, w/o Drill, Stainless Steel

**Soil Augers - Dormer & AMS**

**Gouge Auger**

Take undisturbed samples from very soft and preferably very wet soils. It is made from a tapered stainless steel half-tube that is pushed into the soil, turned to cut the core and then withdrawn containing the “plug” of soil. It can be used on the surface or down an augered hole but resampling is limited by the hole collapsing.


**Hollowstem Auger Kits**

Prevent cross contamination with a cased access hole.

The portable AMS Hollowstem auger kit provides the tools needed to reach a 1.8m depth. The augers cut a 75mm diameter hole and have an ID of 28mm, making them suitable for soil, soil gas and groundwater sampling through a cased hole. A special Hollowstem soil probe, 22mm OD by 609mm long with slide hammer is included to allow collection of a soil sample through the auger. The AMS gas vapor probes may be used through these augers telescopically. Bailers up to 25mm diameter may be used to collect groundwater samples.

**Soil Core Samplers**

Collect relatively undisturbed soil core samples.

The AMS soil core sampler (SCS) collects a relatively undisturbed soil core sample in a liner that may be packaged for transfer to a laboratory for soil profiling of chemical analysis. The liner may also be extruded in the field for examination of the soil core sample. The soil core sampler is available in carbon steel or stainless steel. Sized by the OD of the liner.

**Application**

Hand sampling unconsolidated soils and wastes. Use with an optional Auger Tip to access a sampling point or collect disturbed samples. Use with a Coring Tip to collect relatively undisturbed samples. Designed for use with or without a Liner.

**Ordering Information**

**Hollowstem Auger Kit Includes:** SDS max adapter, slide hammer, flighted lead auger, flighted extension, two 5/8in. x 3 foot' extensions hard surfaced tip, wrenches, nylon brush, AMS deluxe carrying case.

**Hollowstem lead section includes:** SDS max adapter, 3' flighted extension, inner rod, plug, cap and tip.

AMS209.22 Hollowstem Auger Kit w/o Drill
AMS409.55 Hollowstem Lead Section
Requires hammer drill to operate

**Soil Core Samplers**

**Ordering Information**

**Includes:** Slide hammer, core cup and cap, 2 plastic end caps, and plastic liner.

**Carbon Steel**

AMS354.26 50mm x 150mm, Signature Series Soil Core Sampler Complete, Carbon Steel
AMS404.05 50mm x 150mm, Threaded Soil Core Sampler Complete, Carbon Steel
AMS404.50 50mmx300mm, Threaded Soil Core Sampler Complete, Carbon Steel

**Stainless Steel**

AMS404.63 50mm x 150mm, Threaded Soil Core Sampler Complete, SST
AMS404.67 50mmx300mm, Threaded Soil Core Sampler Complete, SST

38mm diameter sampler also available

**Expendables**

AMS404.90 2in. Eggshell Core Catcher
AMS404.21 2in. x 6in. Plastic Liner
AMS405.10 2in. x 12in. Plastic Liner
AMS418.10 2in. plastic end cap (each)
**Split Soil Core Samplers**

Easily extract soil cores

The split soil core sampler has a vertically split cylinder (cup set) that allows easy extraction of the soil core from the liner and prevents breakage of the core. Use it without a liner to collect disturbed cores for immediate field examination and testing, or it can be used with a liner for collection of undisturbed, sealed cores. Sampler OD’s are 12.7mm larger than the liner size.

**Application**

Hand sampling unconsolidated soils and wastes. Use with an optional Auger Tip to access a sampling point or collect disturbed samples. Use with a Coring Tip to collect relatively undisturbed samples.

Designed for use with or without a Liner. Direct field examination and sub sampling of the core is possible when a liner is not used.

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**Soil Probe**

Used without liners!

Regular soil probes feature a window (slot) in the body for easy sample recovery. They are used without a liner and are available in two diameters and three lengths.

- Nickel plated probes are rust-resistant
- Sturdy design which resists bending and twisting out of shape
- Removable, corrosion-resistant 10” cross-handle with comfortable grip
- Clean, wide slot in the probe body for easy removal of sample
- Available with a replaceable tip

**Replaceable Tip Soil Probe**

The replaceable tip soil probe comes with an AMS regular coring tip, but can accommodate an optional heavy duty tip.

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**Ordering Information**

**Includes**: Split SCS cup set, split SCS cap, plastic liner, 2 plastic end caps and universal slip wrench. Each set can be bought with a core tip, an auger tip, or with both tips.

AMS355.42 50mm x 300mm, Signature Series Split Soil Core Sampler w/Core Tip
AMS355.32 50mm x 150mm, Signature Series Split Soil Core Sampler w/Core Tip
AMS355.22 50mm x 300mm, Signature Series Split Soil Core Sampler w/Auger Tip
AMS355.12 50mm x 150mm, Signature Series Split Soil Core Sampler w/Auger Tip
AMS355.62 50mm x 300mm, Signature Series Split Soil Core Sampler w/Both Tips
AMS355.52 50mm x 150mm, Signature Series Split Soil Core Sampler w/Both Tips
AMS403.40 50mm x 150mm, Threaded, Split Soil Core Sampler w/Core Tip
AMS403.41 50mm x 300mm, Threaded, Split Soil Core Sampler w/Core Tip
AMS403.50 50mm x 150mm, Threaded, Split Soil Core Sampler w/Auger Tip
AMS403.51 50mm x 300mm, Threaded, Split Soil Core Sampler w/Auger Tip
AMS403.60 50mm x 150mm, Threaded, Split Soil Core Sampler w/Both Tips
AMS403.61 50mm x 300mm, Threaded, Split Soil Core Sampler w/Both Tips

Also available Nickel Plated and Unplated.

AMS402.01 533mm Soil Ejector for Soil Probe
AMS402.02 838mm Soil Ejector for Soil Probe
AMS425.50 25mm x 914mm Nickel Plated Replaceable Tip Soil Probe w/Handle
AMS425.74 25mm Plated Replaceable Tip
Soil Sampling

Soil Recovery Probes

Used with liners!

AMS soil recovery probes (SRP) are made without a slot in the body to allow use of a liner for sample collection. The liners used are 1/8in. (3mm) smaller than the diameter of the probe. The SRP enables the user to collect a soil sample inside a 25mm plastic liner.

The exclusive AMS “Reach and Grab” system is featured in these probes. A specially threaded top cap allows the liner to protrude from the top of the body for easy removal without disturbing the sample. Liners for these probes are 45mm longer than the specified length of the sampler.

Each SRP includes: Probe body, top cap, cross handle, liner and two plastic end caps.

All probes come with a plastic liner.

Ordering Information

AM5424.41 29mm x 300mm SST Soil Recovery Probe w/Handle
AM5424.43 29mm x 609mm SST Soil Recovery Probe w/Handle

Expendables

AM5425.02 1” x 12” Plastic Liner for 300mm SRP
AM5425.04 1” x 24” Plastic Liner for 609mm SRP
AM5425.18 1” Plastic End Caps

Replaceable Tip Soil Recovery Probe

Similar to the AMS soil recovery probe, the replaceable soil recovery probe can be used with liners. The 32mm probe is available in either a 300mm or 609mm length and includes a 254mm comfortably gripped cross handle, coring tip, spanner wrench, plastic liner and two plastic end caps. The exclusive “Reach and Grab” system is featured in these probes.

Ordering Information

AM5425.45 32mm x 300mm Nickel Plated Replaceable Tip Soil Recovery Probe
AM5425.47 32mm x 609mm Nickel Plated Replaceable Tip Soil Recovery Probe

Expendables

AM5425.02 1” x 12” Plastic Liner for 300mm SRP
AM5425.04 1” x 24” Plastic Liner for 609mm SRP
AM5425.18 1” Plastic End Caps

Dual Purpose Soil Recovery Probes

Compatible for use with or without liners!

Dual purpose soil recovery probes have a slot and allow collection of samples directly or in a liner. The liners used are 3mm diameter smaller than the probe diameter. The exclusive AMS “Reach and Grab” system is featured in these probes, with liners that are 45mm longer than the probe.

Ordering Information

AM5424.49 29mm x 300mm SST Dual Purpose Soil Recovery Probe w/Handle
AM5424.51 29mm x 609mm SST Dual Purpose Soil Recovery Probe w/Handle

Also available Nickel Plated

AM5425.65 32mm x 300mm Nickel Plated Dual Purpose Replaceable Tip for Soil Recovery Probe
AM5425.67 32mm x 609mm Nickel Plated Dual Purpose Replaceable Tip Soil Recovery Probe

Expendables

AM5425.02 1” x 12” Plastic Liner for 300mm SRP
AM5425.04 1” x 24” Plastic Liner for 609mm SRP
AM5425.18 1” Plastic End Caps
**Open End Probes**

Take shallow samples of soil in agricultural applications.

The AMS open end probe collects a 25mm diameter sample about 380mm long. It is made from nickel-plated type 4130 chrome molybdenum steel. The 380mm long body slot is cut to the end of the probe to facilitate emptying. Includes a comfortably-gripped cross handle.

**Turf Profiler**

Ideal for soft soil conditions

Collect a replaceable wedge of your sample in one easy step.

The all stainless steel turf profiler collects a 88mm wide by 25mm thick by 178mm deep turf sample for examination. It may be replaced easily or suitably packaged for later analysis.

The sampler is provided with a detachable plate for easy sample removal.

**Turf Probe**

Minimise damage to turf with small diameter probe.

The AMS turf probe is designed to collect a small 178mm x 12mm diameter soil sample from sod or grassed areas. The probe slot allows easy visual inspection and cleaning. They are made from nickel plated carbon steel and have a built-in 250mm comfortably gripped cross handle.

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**Ordering Information**

- **AMS401.10** 29mm x 838mm Nickel Plated, Open End Soil Probe w/Handle
- **AMS401.21** 22mm x 838mm Nickel Plated, Open End Soil Probe w/Handle
- **AMS427.75** One Piece Soil Profiler
- **AMS427.24** 508mm Nickel Plated One Piece Turf Probe
**Step Probes**

An easy way to collect shallow soil samples.

The built-in step allows additional pressure to be used to drive the probe. These nickel plated probes are available as either a one-piece or as a two-piece probe. Both offer a 250mm comfortably gripped cross handle, but the cross handles on the two-piece models are detachable with a 5/8in. threaded connection and a 25mm OD. Both are made of heavy wall type 4130 chrome molybdenum steel with hardened tips that cut a soil core 12mm diameter by about 300mm long.

**Brown Moisture Probe**

Determine moisture depth quickly and easily.

Agricultural scientists and farmers use the brown moisture probe to determine the depth of wetting following irrigation. The probe has a modified auger tip and depth markings a 300mm, 600mm and 900mm from the tip.

The probe is pushed into the soil vertically by hand. It will easily penetrate saturated soils but not dry soils. The resistance rises as moisture content falls. At the end of the push the probe is withdrawn. A small soil sample will be trapped in the modified auger flights for visual confirmation of the soil’s moisture condition. The probe is made from carbon steel and is 1.1m long with a built-in 250mm comfortably gripped cross handle.

**Tile Probes**

Ideal for locating buried pipes, underground tanks or utility lines.

AMS tile probes are available in two types of material:
1. High carbon stress relieved 3/8in. steel rod
2. 5/8in. fiberglass.

The steel tile probes are available as a one-piece or two-piece unit with a 10in. comfortably gripped cross handle (2-piece cross handle is detachable), and an oversized ball tip for sensitivity and easy soil penetration.

The 48in. fiberglass tile probe features a built-in 9in. fiberglass comfortably gripped cross handle and a 5/8in. diameter pointed steel tip. The fiberglass shaft provides some protection from electric shock, should an electric cable be penetrated accidentally.

**Ordering Information**

- AMS403.02 1066mm Tile Probe
- AMS403.01 1524mm Tile Probe
- AMS402.93 914mm Two Piece Tile Probe
- AMS402.97 1219mm Fiberglass Tile Probe
- AMS401.40 838mm Nickel Plated Step Probe w/Handle
- AMS401.42 1016mm Nickel Plated One Piece Step Probe
- AMS402.95 Brown Moisture Probe
AMS Gas Vapor Probe Kit

For shallow & soft soils

Easily and economically sample soil gas vapors at shallow depths for preliminary testing.

This manual system is an excellent choice for shallow gas vapor sampling in soft soil. Designed for shallow sampling in penetrable soils using a cross handle, the kit includes a base section with a probe tip and soil gas access holes above.

An included liner rod with tip is placed inside the base section when driving to prevent soil entry. Both the base section and liner rod offer threaded couplings for attachment to an extension with an inner rod. A 1/2" x 5/8" GVP hammer adapter is included with the base section for attaching the cross handle or an optional slide hammer to the probe string. A GVP barbed adapter replaces the GVP hammer adapter when collecting a soil gas sample.

Ordering Information

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<th>Description</th>
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<tbody>
<tr>
<td>AMS427.01</td>
<td>Gas Vapour Probe Kit</td>
</tr>
</tbody>
</table>

AMS Gas Vapor Tip Dedicated

Install as permanent sample point, or leave in ground as a disposable point.

AMS dedicated gas vapor tips are used for detecting hydrocarbon spills, underground storage tank and pipe leaks, landfill contamination and hazardous waste sites. Soil gas monitoring with the AMS dedicated gas vapor tip is easily accomplished using an available AMS GVP kit.

The unique design and umbrella ensure an easy passage for gas entering the collection system. The umbrella assists in keeping the tip vapor inlets free of soil. The option screen may be used, particularly in fine-grained soils or when sampling water.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
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<tr>
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<tr>
<td>AMS212.05</td>
<td>GVP Screen</td>
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AMS Gas Vapor Probe Kit Dedicated

Excellent for monitoring and sampling hydrocarbon spill sites, underground storage tanks and pipelines!

The kit uses an AMS slide hammer or an electric rotary drive hammer and gas vapor probe (GVP) drive extensions to insert a stainless steel soil GVP to the desired depth. Fluoropolymer tubing is attached to a barb fitting on the GVP for remote sampling from the surface. The vapor inlet holes of the dedicated tips are slightly recessed and are protected by the drive tubes to prevent them from becoming clogged during installation.

Ordering Information

<table>
<thead>
<tr>
<th>Includes:</th>
<th>AMS GVP manual, GVP dedicated tip and umbrella (10), removal jack, external drive adapter 3/4&quot;ID, 250’ roll fluoropolymer tube 3/16”, GVP 5/8” tip drive end, slide hammer adapter 3/4” OD, SDS max drill adapter, SDS max 1 1/2” carbide bit, 3” GVP 5/8”x5/8” extension (4), hand pump, slide hammer, 5/8” x 3’ heavy duty extendable tile probe base, 5/8” x 3’ heavy duty tile probe extension (3), AMS deluxe carrying case, GVP instruction CD video.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Duty Kits also include:</td>
<td>Carbide drill bit, 2” lead with hard surfaced tip, 2” x 36” extension (2) 2” carbide tip, SDS Max drill adapter, 2 1/2” Wild Bore SDS Max.</td>
</tr>
<tr>
<td>AMS209.12</td>
<td>GVP Kit with Dedicated Tip w/o drill</td>
</tr>
<tr>
<td>AMS209.24</td>
<td>Heavy Duty GVP Kit with Dedicated Tips w/o drill</td>
</tr>
</tbody>
</table>

*Order drill separately

Soil Vapour Sampling
**AMS Gas Vapor Probe Kit**

*Added benefit of a reusable tip design!*

The addition of the Retract-A-Tip to the AMS gas vapor probe (GVP) system allows for a more versatile field kit for monitoring or sampling hydrocarbon spill sites, underground storage tanks and pipelines. The Retract-A-Tip can be used multiple times without damage. When the sampling depth is reached, the drive tube is pulled up to expose the inlet holes for sampling. The point can then be driven deeper, reopened, and reused multiple times.

**Ordering Information**

Includes:

**Heavy duty kit also includes**:
- Carbide drill bit, 2in. lead with hard surface tip, 2in. x 36in. extension (2), 2in. carbide tip, SDS Max drill adapter, 2 1/2in. Wild Bore SDS Max.

**Ordering Information**

AMS209.16 GVP Kit w/Dedicated Tips and Retract-A-Tip w/o Drill

AMS209.26 Heavy Duty GVP Kit w/Dedicated Tips and Retract-A-Tip and Flighted Augers w/o Drill

*Order drill separately

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**Inoculo pH Soil Test Kit**

The kit is easy to use, accurate and economical.

The Inoculo CSIRO Soil pH Testing Kit has been specially designed by the CSIRO Division of Soils to enable you to make "on the spot" tests on your own property.

The kit comprises sufficient indicator chemicals for up to 100 tests, test plate, spatula, colour chart, information booklet and notebook for recording results.

**Specifications**

* Contains: 40g Barium Sulphate, 50mL pH dye indicator, colour chart, palette, instructions & container.

* Range: 2 to 10.5 in 0.5 increments

**Ordering Information**

INPH001 Inoculo pH test kits for 50-100 tests

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**Hanna HI3820**

Acidity can be caused by mineral or organic acids, or by carbon dioxide as carbonic acid. Acidity of aqueous solutions contributes to corrosiveness and influences the rate of biological processes. For these reasons acidity is monitored in fish farming, soil testing, environmental testing, treated waste water discharge, lakes and rivers.

The Total Exchangeable Acidity (TEA) measures the total amount of soil acidifiers (hydrogen, aluminum, iron and manganese) in meq/100g unit, equivalent to 1000 parts per 100g of soil. A high value of total exchangeable acidity means a low soil pH level. Soil with high acidity can damage some crops.

**Ordering Information**

HANHI3820 Acidity Test Kit

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**Munsell Soil Color Chart Binder**

Color classification of soils using 250 mounted chips.

The Munsell Color Chart enables color classification of soils using 250 mounted color chips. Developed with the U.S. Soil Conservation Services, this guide is the industry standard.

**Ordering Information**

AMS504.00 Munsell Soil Binder w/Chart
**Dexsil Clor-N-Soil**

**Field Test Kit for PCB Screening of Soil at 50 ppm**

Soil analysis is not only expensive, but time consuming. Clor-N-Soil is a self contained test kit that allows field personnel to perform the test in less than 10 minutes without additional equipment or supplies.

The kit can test any type of soil including sand, topsoil, sediment and clay at a fraction of the cost of traditional laboratory testing. All premeasured reagents are sealed in glass ampules for accurate and consistent results.

PCB concentration, extent and location of site contamination are all critical when determining further action. Clor-N-Soil PCB field screening kits can help you make those decisions on site in a matter of minutes.

**Specifications**

<table>
<thead>
<tr>
<th>Analytes</th>
<th>PCB's</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matrix</td>
<td>Soil</td>
</tr>
<tr>
<td>Detection Method</td>
<td>Fixed endpoint colorimetric titration</td>
</tr>
<tr>
<td>Action Levels</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Analysis Time</td>
<td>10 minutes</td>
</tr>
</tbody>
</table>

**Ordering Information**

| DEXCS-OIL   | Clor-N-Soil, 50ppm Pack of 12 Tests |

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**Dexsil PetroFLAG Analyser System**

**Field Test Kit for for Hydrocarbons in Soil**

The analyst now has another choice; an environmentally safe, inexpensive, field portable test called PetroFLAG.

Relying on laboratory methods to determine hydrocarbon contamination in soil is both time consuming and expensive. Most samples analysed by this method limit the results to Gasoline Range Organics (GRO) or Diesel Range Organics (DRO). When limiting the analysis to these two ranges, heavier fractions of hydrocarbons such as fuel oil, motor oil, hydraulic oil, gear oil, transformer oil and greases are “not seen” in the analysis and the soil samples are reported as clean even though these heavier hydrocarbons still exist in the soil.

The PetroFLAG system is a field portable method for the determination of total petroleum hydrocarbons in soil. It is both safe and easy-to-use. PetroFLAG does not distinguish between aromatic and aliphatic hydrocarbons, but quantifies all fuels, oils and greases as total hydrocarbons. Analysis of a 10 gram soil sample is performed using three simple steps: extraction, filtration, and analysis.

The PetroFLAG system is completely field portable. Everything needed to perform ten soil tests can be conveniently carried to the job site in a briefcase size carrying case. The PetroFLAG meter is a light-weight, rugged hand-held unit powered by a 9-volt alkaline battery. The meter is menu driven for ease-of-use and utilises an EEPROM memory system. Fifteen response factors are built into the analyser depending on the analyte of interest. Response factors correlate to fuels ranging from weathered gasoline to heavy crude oil. The results are shown in ppm on an LCD display screen.

**Specifications**

<table>
<thead>
<tr>
<th>Analytes</th>
<th>Petroleum Hydrocarbons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matrix</td>
<td>Soil</td>
</tr>
<tr>
<td>Detection Method</td>
<td>Turbidimetric Development</td>
</tr>
<tr>
<td>Action Levels</td>
<td>(MDL) 15 -2000 ppm (analyte dependent)</td>
</tr>
<tr>
<td>MDL</td>
<td>15 ppm</td>
</tr>
<tr>
<td>MQL</td>
<td>45 ppm</td>
</tr>
<tr>
<td>Interferences</td>
<td>Natural Hydrocarbons</td>
</tr>
<tr>
<td>Overall Accuracy</td>
<td>10% +/-MDL</td>
</tr>
<tr>
<td>Analysis Time</td>
<td>Throughput 1-10 samples in 15 minutes</td>
</tr>
</tbody>
</table>

**Ordering Information**

- **DEXPF-MTR-01** PetroFLAG Analyser, includes digital, handheld analyser with carrying case, electronic balance, timer, 10 Standard reagents (10 tests), 2 calibration standards.
- **DEXPF-SRP-10** Petroflag reagents standard range, 10 tests
- **DEXPF-SRPS** Petroflag reagents standard range, 40 tests
- **DEXPF-CAL-12** Petroflag calibration reagents, pack of 12
- **DEXPF-CAL-CS** Petroflag calibration reagents, pack of 48
- **High Range Reagents**
  - **DEXPF-HRD-10** PetroFLAG High Range Reagents PF-HRD-10, 10 Tests