



LITTLE BEAVER[®]
EARTH DRILLS & AUGERS

SOIL SAMPLING EQUIPMENT

PORTABLE. POWERFUL. PROFITABLE.



LITTLE BEAVER®
EARTH DRILLS & AUGERS



LONE STAR DRILLS

**WELL-PLANNED CONSTRUCTION
AND DRILLING PROJECTS START
WITH PROPER SOIL TESTING.**

This can often mean accessing confined space or waiting “your turn” on the testing schedule. Little Beaver offers you the ability to take control of your own projects and access any area for testing with our complete line of drilling equipment.

Whatever the challenge or the test, we have a drill to meet your needs.

WELL MONITORING

CORE SAMPLING

GEOTECHNICAL TESTING

STANDARD PENETRATION TESTING (SPT)

HYDRAULIC

HYDRAULIC EARTH DRILL WITH TRIPOD



For exceptional portability in soil sampling, pair the hydraulic earth drill with a Little Beaver tripod kit for precise testing in any soil. Equipped with a powerful hydraulic drive and 11-horsepower engine, the hydraulic earth drill delivers excellent control and smooth sample lifting. The tripod kit is quick to set up and designed specifically for taking soil samples.

APPLICATIONS

Soil Sampling

Drilling Depth	35 ft (10.7 m)
Borehole Diameter	4 in (10.2 cm)
Soil Types	Sand, clay, and soft rock formations
Pull Back Force	1,000 lbs (454 kg)
Operating Weight	450 lbs (205 kg)
Auger Diameter	4 in (10.2 cm)
Auger Length	36 in (91.4 cm)
Max Drilling Torque	280 ft-lbs (379.6 N-m)
Frame	Welded mechanical steel tubing
Engine	Honda GX240 11 hp (8.2 kW)
Speed	150 rpm at 6 gpm (22.7 L/m)
Transport Options	Mounted on a wheeled base frame
Soil Sampling Kit	Not included



HAND SAMPLING TOOLS

Standard hand sampling tools come in 1.5- and 2-inch (3.8- and 5-centimeter) diameters and can be used with any of Little Beaver mechanical or hydraulic auger.



BIG BEAVER

BIG BEAVER

The Big Beaver Drill and SSK-1 cathead kit make a great combination for environmental soil sampling. The drill is compact, portable and can easily maneuver through gates and doorways, making it a powerful option for tight spaces. The Big Beaver drill comes in standard and extra-length (XL) models. The standard model handles augers as long as 4 feet, while the XL can use a 5-foot auger.

APPLICATIONS

Soil Sampling | Geotechnical Testing | Well Monitoring | Foundation Repair | SPT

Drilling Depth	100 ft (30.5 m) - with 6-inch auger
Borehole Diameter	Up to 18 in (40.6 cm)
Soil Types	Sand, clay and soft rock formations
Pull-Back/Push Force	2,500 lbs (1,134 kg)
Dimensions LxWxH	48 x 26 x 80 in (122 x 66 x 203 cm)
Operating Weight	540 lbs (244.9 kg)
Auger Diameter	3 - 18 in (7.62 - 45.7 cm)
Auger Length	3, 4 or 5 ft (.91, 1.22 or 1.52 m)
Max Drilling Torque	690 ft-lbs (935.5 N·m)
Frame	Welded mechanical steel tubing
Engine	Honda 20 hp (14.9 kW)
Speed	160 rpm at 10 gpm (37.9 l/m)
Transport Options	Mounted on a wheeled base frame
Soil Sampling Kit	Optional



ACCESSORIES

OPTIONAL ACCESSORIES



SSK-1 CATHEAD KIT

Standard: LST1G+ | LST1G+HD

Optional: Big Beaver

To quickly convert your Big Beaver drill from a standard drill to a geotechnical drill, simply add the optional SSK-1 Cathead Kit. The SSK-1 includes a third hydraulic valve, tower kit and spool. It can be used with Little Beaver's AWJ drilling rod and 24-inch split spoon sampler, which allows users to obtain core samples for environmental tests or geotechnical engineering projects.



Included Components: Cathead, valve, sheave, rope, tower, stabilizing legs



SPLIT SPOON SAMPLER

Big Beaver | LST1G+ | LST1G+HD | LST1G+HDA

The split spoon sampler provides core samples as deep as 24 inches (62 centimeters) and is commonly used with the cathead kit and safety hammer.



SAFETY HAMMER

Big Beaver | LST1G+ | LST1G+HD

The 140-pound (63.5-kilogram) safety hammer easily drives the split spoon sampler into the soil.



HOLLOW STEM AUGERS

Big Beaver | LST1G+ | LST1G+HD | LST1G+HDA

In unstable soil, hollow stem augers collect samples without risk of contamination. The augers come in 6- and 8-inch (16.24- and 20.32-centimeter) diameters and feature 2 $\frac{3}{4}$ - or 3 $\frac{3}{4}$ -inch (7- and 9.5-centimeter) internal diameters. The center rod and center plug can be removed to create a clear path for inserting a soil sampler.



LONE STAR

LONE STAR



LST1A+

The fully hydraulic LST1A+ comes mounted on a rugged-but-lightweight single-axle trailer and features an auger head drive that makes it well-suited for drilling holes to examine soil cuttings. Its three leveling jacks allow for fast setup and stable drilling. The machine can drill a 6-inch borehole to 50 feet with a hollow stem auger or drill as deep as 100 feet with a standard auger. Then the rotary swivels aside for easy access to the borehole.

APPLICATIONS

Soil Sampling



LST1G+

The LST1G+ geotechnical drill easily takes on challenging applications, especially in places inaccessible with larger equipment. This drill includes a tower, cathead, pulley and rope to facilitate standard penetration testing with a 140-pound manual safety hammer. Use it with Lone Star's optional split-spoon sampler or hollow stem augers to take core samples. Powered by a 20-horsepower Honda gas engine, the fully hydraulic system provides a speed of 150 rpm at 10 gpm. The 5,000-pound lifting capacity of the LST1G+ ensures easy removal of augers and extensions.

APPLICATIONS

Soil Sampling | Geotechnical Testing

Well Monitoring | SPT

LST1A+

LST1G+

Drilling Depth	100 ft (30.5 m)	100 ft (30.5 m)
Borehole Diameter	6 in (15.2 cm)	6 in (15.2 cm)
Soil Types	Sand, clay and soft rock formations	Sand, clay and soft rock formations
Pull-Back/Push Force	5,000 lbs (2,268 kg)	Up to 5,000 lbs (2268 kg)
Operating Weight	1,750 lbs (793.79 kg)	1,750 lbs (793.8 kg)
Auger Diameter	3 - 8 in (7.6 - 20.3 cm)	3 - 8 in (7.6 - 20.3 cm)
Auger Length	4 or 5 ft (1.22 or 1.52 m)	4 or 5 ft (1.22 or 1.52 m)
Max Drilling Torque	500 ft-lbs (677.9 N-m)	500 ft-lbs (677.9 N-m)
Frame	Heavy-duty welded steel	Heavy-duty welded steel
Engine	Honda 20 hp (14.9 kW)	Honda 20 hp (14.9 kW)
Speed	150 rpm at 10 gpm (37.9 L/m)	150 rpm at 10 gpm (37.9 L/m)
Transport Options	Trailer mounted	Truck bed or trailer mounted
Safety Hammer	NA	Manual
Soil Sampling Kit	NA	Included





LST1G+HD

The LST1G+HD geotechnical drill is similar to the LST1G+ but offers enhanced power and capabilities. It has a planetary reduction gearbox for up to 1,100 foot-pounds of torque and increased pull-back/push force to tackle challenging soils. The LST1G+HD's steel frame features a 50 percent increase in strength over the LST1G+. This drill includes a tower, cathead, pulley and rope to facilitate standard penetration testing with a 140-pound manual safety hammer. The drill also includes a powerful 3,000-psi hydraulic system and 27-horsepower Kohler gas engine with EFI for dependable starts in nearly any conditions. The hydraulic power pack operates at 12.5 gpm, achieving a rotary speed of 100 rpm with as much as 1,000 foot-pounds of torque.

APPLICATIONS

Soil Sampling | Geotechnical Testing | Well Monitoring | SPT

LST1G+HDA

The newest of the Lone Star geotechnical drills, the LST1G+HDA, addresses the growing need for automatic hammers in soil sampling applications. The automatic hammer design ensures precise, foolproof, sampling depths as well as easy operation. The drill includes a hydraulic winch with 1,500 lbs pull. The drill features a planetary reduction gearbox with up to 1,100 foot pounds of torque. This model comes standard with a 3,000-psi hydraulic system and 27-horsepower Kohler gas engine with EFI. A rotary speed of 100 rpm is achieved with a 12.5 gpm hydraulic power pack.

APPLICATIONS

Soil Sampling | Geotechnical Testing | Well Monitoring | SPT



	LST1G+HD	LST1G+HDA
Drilling Depth	100 ft (30.5 m)	100 ft (30.5 m)
Borehole Diameter	6 in (15.2 cm)	6 in (15.2 cm)
Soil Types	Sand, clay and soft rock formations	Sand, clay and soft rock formations
Pull-Back/Push Force	Up to 8,500 lbs (3,855.5 kg)	Up to 8,500 lbs (3,855.5 kg)
Operating Weight	1,950 lbs (884.5 kg)	3,000 lbs (1,360.8 kg)
Auger Diameter	3 - 8 in (7.6 - 20.3 cm)	3 - 8 in (7.6 - 20.3 cm)
Auger Length	3, 4 or 5 ft (.91, 1.22 or 1.52 m)	3, 4 or 5 ft (.91, 1.22 or 1.52 m)
Max Drilling Torque	1,100 ft-lbs (1,491.4 N-m)	1,100 ft-lbs (1,491.4 N-m)
Frame	Heavy-duty welded steel	Heavy-duty welded steel
Engine	Kohler 27 hp (20.13 kW)	Kohler 27 hp (20.13 kW)
Speed	100 rpm at 12.5 gpm (51.1 L/m)	100 rpm at 12.5 gpm (51.1 L/m)
Winch	NA	1,500 lbs (680.4 kg)
Transport Options	Truck bed or trailer mounted	Truck bed or trailer mounted
Safety Hammer	Manual	Automatic
Soil Sampling Kit	Included	Included

PORTABILITY TRAILER MOUNTED



When reaching your destination is half the battle, Little Beaver drills deliver. Even our largest model is trailer mounted and easily towed by an ATV or UTV. Delivery is simple: Choose to have your drill shipped fully assembled in a crate or knocked down and palletized for less expensive transportation overseas or by truck.





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www.littlebeaver.com
www.lonestardrills.com

Little Beaver has been proudly manufacturing quality, safe and productive drilling equipment for three generations. It offers a full line of easy-to-operate equipment, and a complete array of accessories to effectively serve all end-users, from professional contractors to rental centers.

Little Beaver acquired Lone Star Drills in 2005, adding an innovative new line of products to the Little Beaver family. All Little Beaver products are designed as convenient, powerful solutions that require minimal resources for operation and transportation.

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