

# 66 series MACHINES



from  
**Geoprobe® Systems**

# 66 Diversity



**Three machine configurations.**

**Two power source options.**

**One tough Geoprobe® hammer.**

The 66 Series Machines from Geoprobe® Systems meet the difficult demands of probing conditions head on! With a long list of options designed to save you time in the field ... including a two-speed augerhead, overhead hydraulic mast and winch, and the ability to attach the DH66 Automatic Drop Hammer ... Geoprobe® Systems can add a new dimension to your site investigation challenges. *More power:* for deeper borings. *Larger tool capacity:* for installing direct push permanent monitoring wells. *Versatility:* for direct push and augering tasks. Who gives you the most choice? Geoprobe® Systems.

**"Our 6600 and 6610DT machines let us offer our clients quality soil sampling, groundwater sampling, and well installation ... in difficult-to-access locations."**

Gary Hill  
Walker-Hill Environmental

**"We were so impressed after renting a 6610DT that we bought a new one. We'd recommend it to anyone ... except our closest competitors!"**

Charley Roberts  
Roberts Environmental Drilling, Inc.



**"Our 6600 machine is awesome! It amazes me what it will do every time we take it out."**

Tom Payton  
Saberprobe

*Geoprobe® 66 Series Machines are available in truck- or track-mounted configurations. The robust design of the 6620DT puts it in a field of its own.*



*The 6620DT and 6610DT machines are powered by a quiet-running 54 hp Kubota turbo diesel engine ... perfect for tackling rough driving conditions.*



# GG Innovation



The go anywhere, do anything probing unit. The compact size of the track-mounted machines gets you in to confined spaces to get the work done. But don't let the size fool you. The 6620DT and 6610DT are as powerful as the truck-mounted units packing 47,000 pounds of pull to retrieve tooling from deep below the surface. The two-speed probe cylinder, one of the standard features of the track machines, cycles from top to bottom in less than 5 seconds. The result? It can really help shorten those long work days. Innovative features, like a detachable probe foot, built-in tool storage areas, and a wireless remote controller, make this unit appealing. So much so, the track-mounted machines are the most popular direct push machines.

**"Our 6610DT can do so much with so little. Tight clearance jobs, work in elevator shafts, probing in soft terrain, and all the power you need in one machine."**

Dennis Samsel  
Geo Logic Inc.



**"I can use my machine for just about anything the environment throws at me!"**

Scott Vojta  
Geotek Alaska

The track-mounted Geoprobe® machines thrive on tough conditions and continue to work in places other machines can't get to. Because the weight of the unit is evenly distributed over both tracks, both the 6620DT and 6610DT machines easily maneuver through shallow water, soft sands, or muddy fields.



# 6600 Profitability

It's a great way to take care of business. Head off to the job site with your 6600 machine safely wrapped inside a PC111 Probe Carrier with all of your field gear... probe rods, augers, logging equipment, samplers, liners... in one package. Efficient. Convenient. Protected. Secure. The PC111 option makes smart use of over 160 cubic feet of dry storage space and offers secure protection for your tooling investment. You'll find built-in rod racks, tool storage areas,



**"We have cobblestones and hard, dense soils. We just couldn't operate here without our 6600 machine."**  
Don Siligo  
EnProb Environmental Services

five side and rear access doors, interior and exterior work lights, a translucent roof, and a large "open" area (still inside the enclosure) for storing larger items. We've

also allowed room for an enclosed generator system, multi-drawer toolboxes, fold-down work tables for onsite paperwork, a 42-gallon water transport system for cleanup

work, and lots of extras. It's a well designed and well organized, efficient work area to save your people time and increase production and profits.



**"We're working in places we never could have before. Our flexibility to support our clients has significantly improved."**

David Dobb  
TechLaw Inc.



*We've given the industry a whole different way of looking at direct push technology. The 6600/PC111 puts it all together for you in one complete package ... the machine, the tools, the service.*



# 66 Versatility

The Task: Find different ways to be better. So we did. The 66 Series Machines allow you to offer your customers a wide range of services. Gather soil classification information by pushing electrical logging tools. Install permanent monitoring wells. Anchor the probe unit for CPT logging. Collect SPT (Standard Penetration Test) blow counts. The versatility of the equipment allows you to switch from direct push operations to augering in less than five minutes ... on any of the 66 Series Machines. The BP49 Power Unit,

**"We are often asked to use our machine and tooling in ways not originally envisioned by Geoprobe® Systems. With this machine, we can maximize our services."**

Mark Burbach  
University of Nebraska

supplies all hydraulic and electrical power needed for operating the probe unit. Integral to the BP49 Power Unit is a dependable 4-cylinder Kubota turbo diesel engine, a 20-gallon fuel tank, and a 20-gallon hydraulic oil tank.



Probe rods and field supplies stay protected in two secure storage compartments. . . one on each side of the probe. One compartment opens from the side; the other has access from the rear.



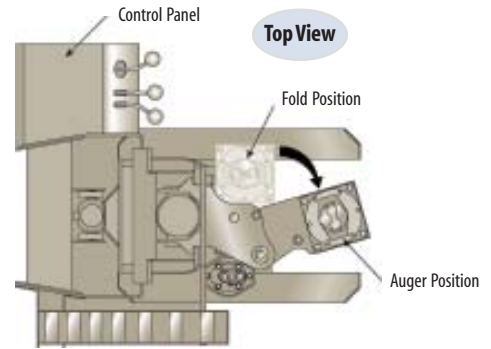
**"After using the 6600 rig on job sites, the onsite Geologist requests that I always send the 'big' 6600 rig!"**

Lanny Teague  
Subsurface Environmental Investigation





Geoprobe® Systems selected Kubota's 54 horsepower turbo diesel engine to power the track-mounted machines and as the probe power source for flatbed mounted units. Our engineers liked its dependability and small size. It's quiet and smooth-running, requires minimal maintenance, and has parts availability all over the world.



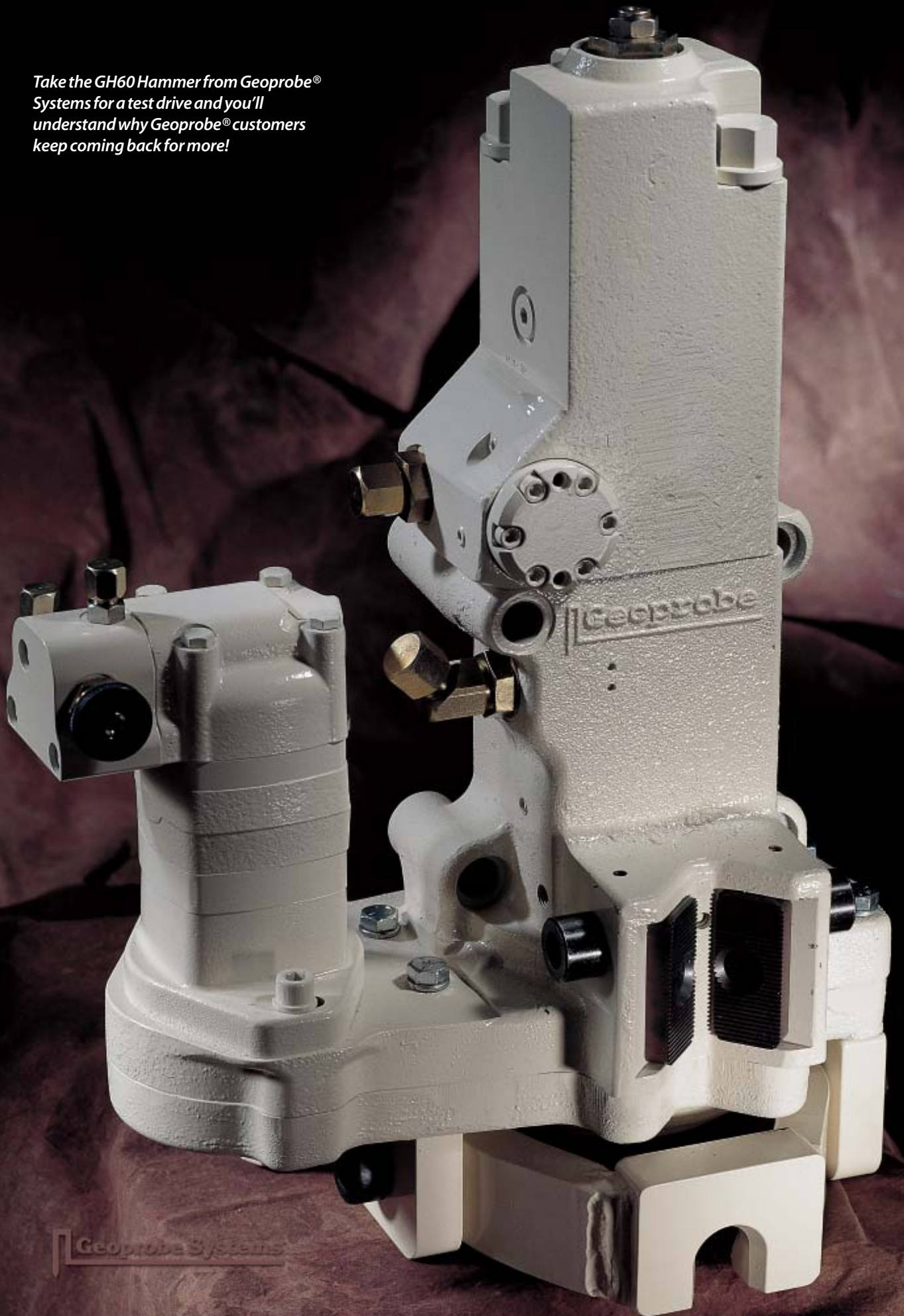
#### GA3000 Augerhead Positions

The optional augerhead on the GH60 folds in for percussion probing, swings out for augering.



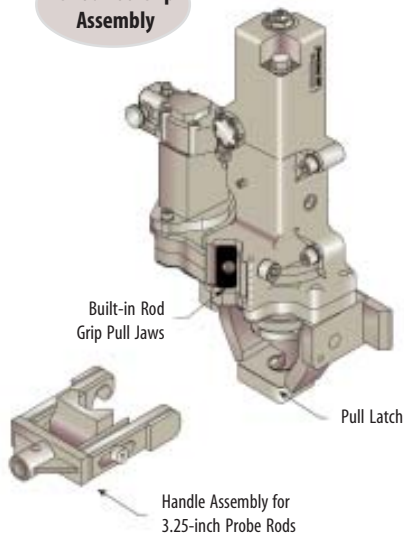
*Geoprobe® Systems takes pride in using terms like "rugged reliability" and "nearly limitless capabilities" when describing our direct push machines. It's even better when those words are used by our customers.*

*Take the GH60 Hammer from Geoprobe®  
Systems for a test drive and you'll  
understand why Geoprobe® customers  
keep coming back for more!*



# 66 Performance

**GH60 Rod Grip Assembly**



It all revolves around the hammer. You've come to expect the best soil probing equipment from us, so it just makes sense that we would build our own hammer. The GH60 hammer hits at 1,920 blows per minute (32 Hz), and delivers forces greater than 20,000 pounds per blow. A built-in hex drive (with 650 ft. lbs. of torque) provides bi-directional rotation for fast pavement drilling, concrete coring, anchoring, or light augering. Other features include an integrated rod grip pull system, over 20-tons pulling capacity, and convenient field serviceability. So what does this mean? The GH60 drives tools faster to greater depths and is one powerful hammer!

**"The power and speed of the GH60 Hammer on my 6600 machine gives me the confidence to proceed with whatever sampling option I feel is best suited to the conditions."**

Joe Fleck  
Envirocore LLC



We only put the Geoprobe® name on the highest quality probing machines, tooling, and geotechnical logging equipment. That's why you'll find the GH60 Hammer mounted exclusively on 66 Series Machines from Geoprobe® Systems.



*Support comes in a variety of packages. Whether it's a visit to a project site or getting a part shipped overnight, your investment is supported by a Team of individuals who want to keep you in the field making money.*



# 66 Reputation

Good reputations are hard to get ... and usually even harder to keep. We put our reputation in the field every day for you. That's why you can look to the people at Geoprobe® Systems for the best machines and tools available anywhere. We back that statement with a solid warranty on our 66 Series Machines which includes our GH60 hammer. You'll find the 66 machines are easy to operate and well organized to make the most efficient use of space for the machine AND the operator. Service parts are in stock for routine maintenance and repairs. Our Customer Service Team is ready to answer questions, provide product support, or assist with probe maintenance procedures. We also offer free referrals to your potential customers. It's all here ... in one package ... from one company.

**"Although I've always believed that Geoprobe® machines are the best value on the market, it's the people, service, innovation, and commitment to me, the customer, that makes Geoprobe® Systems stand out in a crowd."**

Dennis Samsel  
Geo Logic Inc.



**"We couldn't be happier with the truck and the tools and our dealings with Geoprobe® Systems. We'll never buy from another manufacturer."**

James Cole  
Piedmont GeoScience, Inc.



# Specifications

6600/PC111



6620DT



6610DT



Stroke	66 in.	1676 mm	66 in.	1676 mm	66 in.	1676 mm
Weight	2,250 lbs.*	1026 kg*	6,100 lbs.	2767 kg	5,020 lbs.	2277 kg
Width	48 in.	1219 mm	60 in.	1524 mm	48 in.	1219 mm
Length (folded)	90 in.	2286 mm	96 in.	2438 mm	94 in.	2388 mm
Height (folded)	56 in.	1422 mm	89 in.	2260 mm	85 in.	2159 mm
Height (unfolded)	153 in.	3886 mm	153 in.	3886 mm	153 in.	3886 mm
Lateral Movement (side-to-side)	39 in.	991 mm	33 in.	838 mm	36 in.	914 mm
Foot Travel (in-and-out)	45 in.	1143 mm	39 in.	991 mm	39 in.	991 mm
Extension	30 in.	762 mm	15 in.	381 mm	15 in.	381 mm
Oscillation (both directions)	6 degrees from vertical					
Down Force	34,000 lbs.	151 kN	35,000 lbs.	160 kN	35,000 lbs.	160 kN
Retraction Force	46,000 lbs.	205 kN	47,000 lbs.	214 kN	47,000 lbs.	214 kN
Hydraulic Pressure (system)	2,850 psi	196 bar	2,850 psi	196 bar	2,850 psi	196 bar
Hydraulic Flow Rate (system)	30 gpm	114 Lpm	30 gpm	114 Lpm	30 gpm	114 Lpm
Hammer System	GH60		GH60		GH60	
Percussion Rate	32 Hz		32 Hz		32 Hz	
Torque (hammer motor)	560 ft. lbs.	759 N.m	560 ft. lbs.	759 N.m	560 ft. lbs.	759 N.m
Rotation Rate (hammer motor)	240 rpm (bi-directional)		240 rpm (bi-directional)		240 rpm (bi-directional)	
Power Unit Length	54 in.	1372 mm				
Power Unit Width	34 in.	864 mm				
Power Unit Height	38 in.	965 mm				
Power Unit Weight	1,400 lbs.	636 kg				
Fuel Capacity (diesel)	20 gal.	76 L	15 gal.	57 L	15 gal.	57 L
Engine (diesel)	Kubota, 4-cylinder turbo		Kubota, 4-cylinder turbo		Kubota, 4-cylinder turbo	
Engine Power	54 hp	40 kw	54 hp	40 kw	54 hp	40 kw
Cooling System	Liquid		Liquid		Liquid	
Area of Track on Ground			1,656 sq. in.	10684 sq. cm	1,152 sq. in.	7,432 sq. cm
Track Ground Pressure			3.68 psi	0.25 bar	4.25 psi	0.3 bar
Track Width			12 in.	305 mm	9.25 in.	235 mm
Outtrigger Extension			16 in.	406 mm	16 in.	406 mm
Ground Speed			0 - 4.5 mph	0 - 7.2 kph	0 - 2.5 mph	0 - 4.0 kph
Augerhead Torque (high torque/low speed)	3,000 ft. lbs.	4067 Nm	3,000 ft. lbs.	4067 Nm	3,000 ft. lbs.	4067 Nm
Augerhead Torque (low torque/high speed)	1,500 ft. lbs.	2034 Nm	1,500 ft. lbs.	2034 Nm	1,500 ft. lbs.	2034 Nm
Augerhead Hex Adapter	1-5/8 in.	41 mm	1-5/8 in.	41 mm	1-5/8 in.	41 mm
Augerhead Rotation Speed	0-110 rpm		0-110 rpm		0-110 rpm	
PC111 Enclosure Height	87 in.	2210 mm				
PC111 Enclosure Width	96 in.	2438 mm				
PC111 Enclosure Length	138 in.	3505 mm				
Overall Vehicle/Enclosure Height	117 in.	2972 mm				
Overall Vehicle/Enclosure Length	258 in.	6553 mm				
Flip-up Side Door Height	48 in.	1219 mm				
Flip-up Side Door Width	86 in.	2184 mm				
Swing-out Side Door Height	60 in.	1524 mm				
Swing-out Side Door Width	30 in.	762 mm				
Roll-up Rear Door Height	74 in.	1880 mm				
Roll-up Rear Door Width	88 in.	2235 mm				

BP49 Power Option

Equipment specifications, including weights, dimensions, materials, and operating specifications, are subject to change without notice. Where specifications are critical to your application, please consult Geoprobe® Systems.

\* Probe unit only.

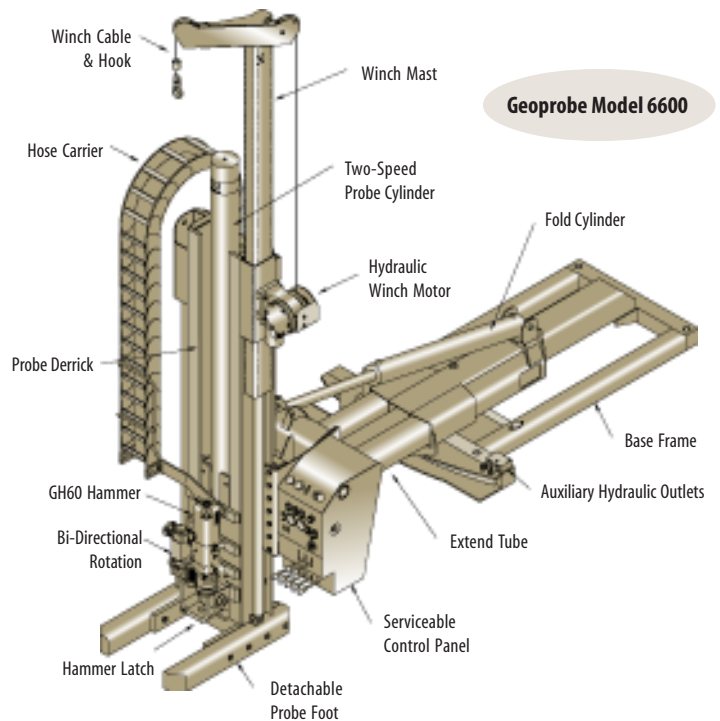
# Features & Options

## Standard/Optional Equipment

- Standard Equipment
- Optional Equipment

6600/PC111  
6620DT  
6610DT

	6600/PC111	6620DT	6610DT
GH60 Hammer	●	●	●
Two-Speed Probe Cylinder	●	●	●
66-in. Probe Cylinder Stroke	●	●	●
Auxiliary Hydraulic Ports	●	●	●
Auxiliary Flow Controller (0-30 gpm)	●	●	●
Detachable Probe Foot	●	●	●
Probe Lateral Movement (side-to-side)	●	●	●
Probe Extension (in-and-out)	●	●	●
Integrated Rod Grip System	●	●	●
Built-in Rotary Spindle (bi-directional)	●	●	●
Concrete Drilling Capabilities	●	●	●
CPT Anchor Installation Capabilities	●	●	●
Serviceable Control Panel	●	●	●
Built-in Mast Oscillation	●	●	●
Augerhead Attachment	●	●	●
Overhead Mast with Winch	●	●	●
DH66 Drop Hammer Mounting Capabilities	●	●	●
High Capacity Hydraulic Fluid Cooler	●	●	●
54 hp Turbo Diesel Power Unit	●	●	●
Split Shaft Power Unit	●	●	●
Remote Track Controller	●	●	●
Independently Driven Rubber Tracks	●	●	●
PC111 Secure Enclosure, 8 ft. x11 ft.	●	●	●
Heavy-Duty Flatbed, 8 ft. x11 ft.	●	●	●
Translucent Roof	●	●	●
Flip-up Side Doors (2)	●	●	●
Swing-out Side Doors (2)	●	●	●
Roll-up Rear Door	●	●	●
Rear Enclosure Boxes (2)	●	●	●
Rod Rack	●	●	●
Decontamination Racks	●	●	●
Enclosed Multi-drawer Toolboxes (2)	●	●	●
Underbody Auger/Rod Storage Racks (2)	●	●	●
In-frame Tool Storage	●	●	●
Dry Storage Area (164 cu. ft.)	●	●	●
Overhead Exhaust System	●	●	●
Interior Compartment Lights	●	●	●
Accessory Power Port, 12v	●	●	●
Exterior Work Lights	●	●	●
Electric Trailer Plug, 12v	●	●	●
Trailer Brake Controller	●	●	●
Water Transport System	●	●	●
Receiver Hitch Hookup	●	●	●
DC Generator System	●	●	●
Drop Down Work Tables (2)	●	●	●
Rear Suspension Package	●	●	●
Machine Vise and Mount	●	●	●
DOT Lighting	●	●	●
Geoprobe Mud Flaps	●	●	●



Geoprobe Model 6600


The two-speed GA3000 Augerhead attachment operates at 0 to 150 rpm with a 4,000 lb. thrust rating.



A serviceable control panel provides easy access for repairs or adjustments, even while the machine is running.



The hydraulic liner extruder quickly and easily pushes stuck or sluggish liners out of either Macro-Core® or Dual Tube sample tubes.



**Geoprobe Systems**

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[www.geoprobe.com](http://www.geoprobe.com)

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