

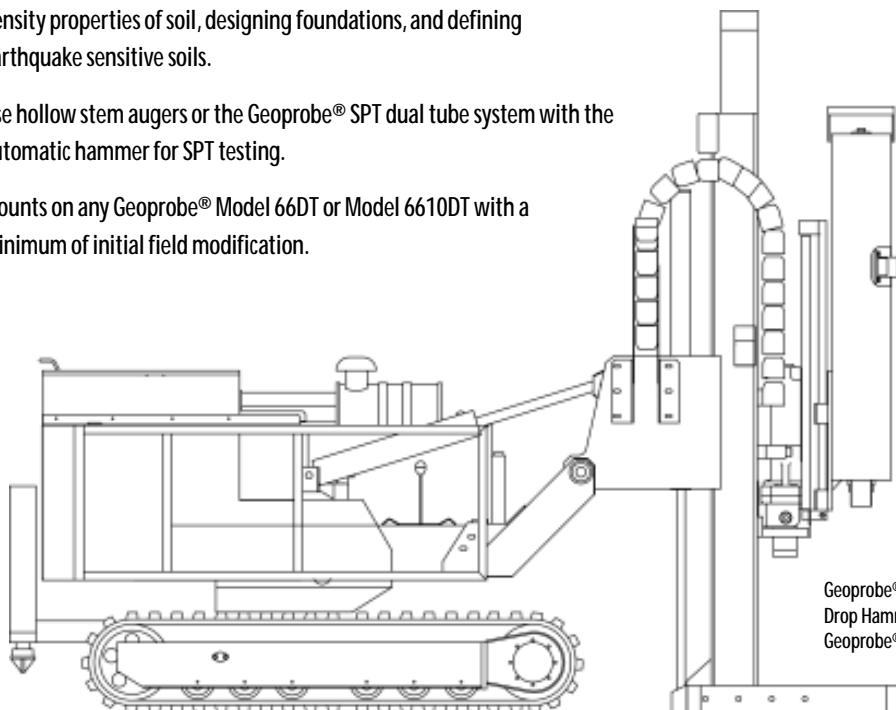
# DH66 Automatic Drop Hammer

Collect Standard Penetration Test (SPT) blow counts with your Geoprobe® machine.

- Easy on / Easy off design!
- Conforms to ASTM Standards D1586.
- Operations from auxilliary hydraulics.
- Consistent results with no human error.
- No cables or ropes needed for operation.
- All moving parts are enclosed in a protective steel casing for operator safety.
- Use the lateral swing of the probe machine to use the hammer over hollow stem augers ... no need to reposition the whole machine.
- Operates at 45 strokes per minute.
- Use your Geoprobe® track machine for both environmental AND geotechnical projects.
- Used to perform Standard Penetration Test (SPT) which is the most common in situ geotechnical test in the U.S.
- SPT blow count results are used by engineers for obtaining strength and density properties of soil, designing foundations, and defining earthquake sensitive soils.
- Use hollow stem augers or the Geoprobe® SPT dual tube system with the automatic hammer for SPT testing.
- Mounts on any Geoprobe® Model 66DT or Model 6610DT with a minimum of initial field modification.



The Geoprobe® Automatic Drop Hammer mounts on any Geoprobe® 66DT or 6610DT. The drop hammer is not dedicated to one machine. Remove one pin and attach the overhead winch to begin unmounting. The drop hammer can be stored upright and out of the way.



Geoprobe® DH66 Automatic Drop Hammer mounted on a Geoprobe® Model 6610DT.

Geoprobe® Systems

# DH66 Automatic Drop Hammer

Geoprobe® Systems



The Geoprobe® Automatic Drop Hammer is equipped with a 140-pound hammer with a 30-inch chain-driven drop.

## Operation

- Powered from auxiliary hydraulics on the probing machine
- Drops 140 pound weight from a height of 30 inches
- 45 blows per minute driving rate
- Accurate, repeatable results
- The automatic hammer has 66 inches of vertical stroke and can travel down 26 inches independent of the probe machine lift.
- The anvil impact surface and all moving parts are enclosed for safety

## Mounting

- Mounts on any 66DT or 6610DT with a minimum of initial field modification
- Hammer can be mounted or detached within minutes using the probe machine's winch
- Easy on and off requires one pin to be pulled – no bolts to keep track of
- Hammer can safely be stored upright on storage base for small footprint and easy access

## Automatic Drop Hammer Specifications

Weight (hammer only - ASTM D1586) .....	140 lb. ....	63.5 kg
Weight (hammer unit) .....	356 lb. ....	162 kg
Weight (entire machine w/o carrier vehicle) .....	502 lb. ....	228 kg
Height .....	63 in. ....	1,600 mm
Width .....	17.5 in. ....	445 mm
Depth .....	14.5 in. ....	368 mm
Hammer Travel Distance .....	26.5 in. ....	673 mm
Percussion Rate .....	45 strokes per minute	
Hydraulic Flow Rate .....	13 gpm ....	50 Lpm
Hydraulic Pressure Rating .....	2,000 psi ....	138 bar

The Geoprobe® automatic hammer is an effective way to collect Standard Penetration Test (SPT) blow counts with your probing machine. The hammer is powered through the auxiliary hydraulics on a 66DT or 6610DT machine and is lifted into position using the probing cylinder. The inconsistency that has historically been a problem for the SPT test is minimized with the repeatable, accurate function of this hammer. The 140-pound weight has a 30-inch free fall before making contact with the anvil so every test is performed the same. And safety was a prime consideration during the development of this tool, so all moving parts and impact surfaces are enclosed in a steel housing.

The days when you had to choose a machine based on whether you wanted to do environmental or geotechnical work are fading fast. Now you can do both. Need SPT blow counts for your customer? Use the automatic hammer with your hollow stem augers or with the specially designed dual tube system by Geoprobe® Systems. Going to a job where you won't need the automatic hammer? No problem. A couple of minutes is all it takes to remove it from your machine.



**Geoprobe® Systems**

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