

DH100 Automatic Drop Hammer



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

- Easy on / Easy off design!
- Conforms to ASTM Standards D1586-99.
- Operates from auxiliary hydraulics.
- Consistent results with no human error.
- No cables or ropes needed for operation.
- All moving hammer components are enclosed for operator safety.
- Hammer cannot be “dry fired” (must be on a rod string) or fired in the horizontal position for operator safety.
- Hammer swings over hollow stem augers...no need to reposition the whole machine.
- Operates at up to 60 blows per minute.
- Throw height can be adjusted within seconds.
- 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 the Geoprobe® SPT dual tube system with the automatic hammer for SPT testing.
- Mounts on most Geoprobe® 7730DT, 7720DT, and 6620DT machines with a minimum of initial field modification.

Automatic Drop Hammer Specifications

Weight (hammer only - ASTM D1586).....	140 lb.	63.5 kg
Weight (hammer unit)	470 lb.	213 kg
Height (transport).....	63 in.	1,600 mm
Width (transport).....	20 in.	508 mm
Depth (transport).....	14.5 in.	368 mm
Cabinet Float/Travel Distance	31 in.	787 mm
Maximum Percussion Rate.....	60 blows per minute	
Hydraulic Flow Rate.....	13 gpm	50 Lpm
Hydraulic Pressure Rating.....	2,500 psi	172 bar

The Geoprobe® DH100 Automatic Drop Hammer locks in position for easy transport, then easily unlocks and pivots into place for use...without the need to reposition the entire machine .



The DH100 Automatic 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.

Operation

- Powered from auxiliary hydraulics on the probing machine
- Drops 140 pound (64 kg) weight 30 inches (762 mm)
- 60 blows per minute driving rate
- Accurate, repeatable results
- The anvil impact surface and all moving parts are enclosed for safety

Mounting

- Mounts on most Geoprobe®7730DT, 7720DT, and 6620DT machines 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



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