

## DH-Series 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.
- Consistent results with no human error.
- No cables or ropes needed for operation.
- 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.
- 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.
- Mounting options for Geoprobe® 7730DT, 7720DT, 6620DT, 7822DT, & 8040DT machines.

#### 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 m
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

#### Drop Hammer Mounting Configurations

- The **DH100** Auto Drop Hammer configures to **6620DT, 7720DT, 7730DT Geoprobe® Machines.**
- The **DH103** Auto Drop Hammer configures to the **7822DT Geoprobe® machine**
- The **DH101** Auto Drop Hammer configures to the **8040DT Geoprobe® machine**
- The **DH104** Auto Drop Hammer configures to the **8140LC Sonic Machine**



The DH103 Automatic Drop Hammer for the Geoprobe® 7822DT

#### Drop Hammer 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
- Easy on and off requires one pin to be pulled – no bolts to keep track of
- Hammer can be mounted or detached within minutes using the probe machine’s winch
- Hammer can safely be stored upright on storage base for small footprint and easy access
- Optional Upgrades for the DH101 & DH103  
 217067-AUTO DROP HAMMER 300 LB EXPANSION KIT  
 216826-AUTO DROP HAMMER 340 LB EXPANSION KIT

