

GEOPROBE®
420M ...

**A Limited Access Machine for Interior
and Basement Work**



Easy to maneuver through a standard door opening, heading for work in a residential basement.

Model 420M Specifications

Stroke	42 in.	1067 mm
Weight	411 lb.	187 Kg
Weight (with rod guide & outriggers)	446 lb.	202 Kg
Width (transport width)	23 in.	584 mm
Width (working width with outriggers extended)	36 in.	914 mm
Length (mast vertical)	28 in.	711 mm
Length (mast vertical & outriggers installed)	45 in.	1143 mm
Length (mast horizontal)	62 in.	1575 mm
Height (mast vertical - probe cylinder extended)	94 in.	2388 mm
Height (mast vertical - probe cylinder retracted)	62 in.	1575 mm
Down Force	11,700 lb.	52.1 kN
Retraction Force	14,000 lb.	62.3 kN
Hydraulic Pressure (system)	2,000 psi	138 bar
Hydraulic Flow Rate (system)	12 gpm	38 L/min
Hammer System	GH42	
Percussion Rate	30 Hz	
Torque	345 ft. lb.	468 N·M
Rotation Rate (bi-directional)	125 rpm	

PortaCo® Inc. Compact, Hydraulic Power Unit

Hydraulic Flow: 12 gpm (38 Lpm) at 2000 psi (138 bar)

Powered by an 20 Hp Briggs & Stratton electric-start engine

Engine operates on unleaded gasoline (Diesel available by request)

Compact Size: 35 in. long x 29 in. wide x 32 in. high (889 x 737 x 813 mm)

Weight: 320 lb. (145 kg)



Collecting geotechnical samples for a new elevator shaft.



Setting up for 900 linear feet of Macro-Core® borings to 20 feet bgs.

Geoprobe® Tooling Run with 420M

- 36-in. Direct Push Tooling
- Probe Rod Sizes: 2.25 in., 1.5 in., 1.25 in.
- Macro Core® MC5 Soil Sampling
 - LB Soil Sampling
 - DT22 Soil Sampling
- SP22 Groundwater Sampling
- SP16 Groundwater Sampling
- 0.75-in. Prepacked Monitoring Well Installations

420_M

Limited Access Unit

- Mast Weight Under 450 lb.
- Reliable Geoprobe® GH40 Hammer System
- 42-in. Stroke Accommodates 36-in. Tooling
- Uses Remote Hydraulic Source
- 23-in. Width Fits Easily Through Doorways
- Pin-in Outrigger Legs Enhance Stability
- Quick Connects Easily Attach to Remote Power Unit
- Easy to Transport from Site-to-Site or to Remote Locations



Maneuvering between two homes.



Cramped probing conditions inside building.



Geoprobe Systems®
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geoprobe.com