

Section 2.0: SPECIFICATIONS

Specifications for the Geoprobe® Model 8040 DT are provided in this section. Refer to Tables 2.1 - 2.5 and Figures 2.1, 2.2, and 2.3 for unit dimensions, capacities, and performance ratings.

Table 2.1: General specifications and dimensions for the Geoprobe® Model 8040DT.		
Ambient Operating Temperature Range	-20°F to 120°F	-29°C to 49°C
Unit Weight	15,500 lb	7031 kg
Working Height (probe cylinder extended, winch mast retracted)	153 in.	3886 mm
Working Height (probe cylinder extended, winch mast extended)	216 in.	5486 mm
Transport Height	97 in.	2464 mm
Transport Width	80 in.	2032 mm
Transport Length	170 in.	4318 mm
Surface Load	4.2 lb/in. ²	0.3 kg/cm ²

Table 2.2: Engine specifications for the Geoprobe® Model 8040DT.		
Engine Type	CATERPILLAR® 4-Cylinder Turbo Diesel	
Engine Power (SAE Net Continuous)	120 hp	89.5 kW
Cooling System	Liquid	
Fuel Capacity (diesel)	32 gal.	121 L
Oil Capacity	7.4 qt.	7 L

Table 2.3: Hydraulic system specifications for the Geoprobe® Model 8040DT.		
Swing	8°	
Foot Travel	25.5 in.	648 mm
Probe Extension	15 in.	381 mm
Oscillation (both directions)	10° from vertical	
Probe Cylinder Stroke	80 in.	2032 mm
Retraction Force	80,000 lb	356 kN
Side Shift Travel (DP Combo Head)	26 in.	660 mm
Hydraulic System Pressure (maximum)	4,000 psi	276 bar
Hydraulic System Flow Rate (maximum)	105 gpm	398 L/min
Hydraulic Fluid Reservoir Capacity	55 gal	208 L
Auxiliary Hydraulic Outlet Pressure	3,000	207 bar
Auxiliary Hydraulic Outlet Flow Rate	12 gpm	45 L/min

Table 2.4:
Hydraulic hammer specifications for the Geoprobe® Model 8040DT.

Hammer System	GH80
Percussion Rate	32 Hz

Table 2.5:
Accessory specifications for the Geoprobe® Model 8040DT.

Winch Rating	2,500 lb	1134 kg
Winch Speed	0-140 fpm	0-43 m/min
High Torque Rotation - Torque (Low Torque / High Speed)	3,000 ft-lb	4067 N·m
(High Torque / Low Speed)	6,000 ft-lb	8135 N·m
High Torque Rotation - Speed (Low Speed / High Torque)	0-100 RPM	
(High Speed / Low Torque)	0-200 RPM	

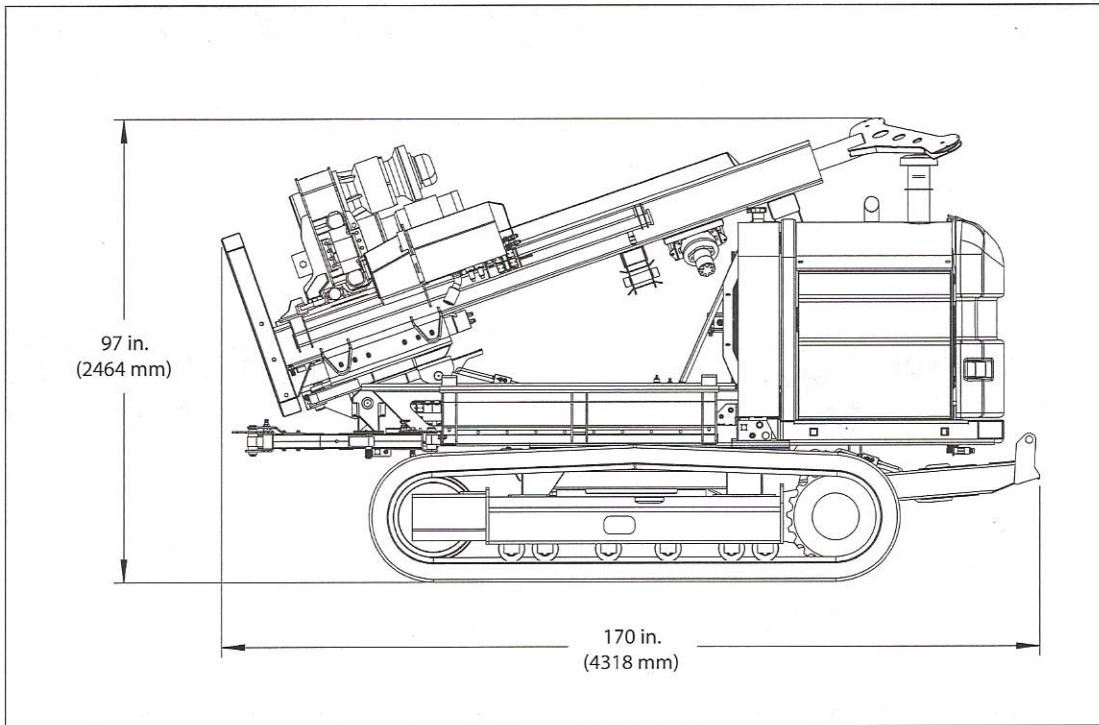


Figure 2.1: Geoprobe® Model 8040DT -- Probe derrick folded for transport, side view.

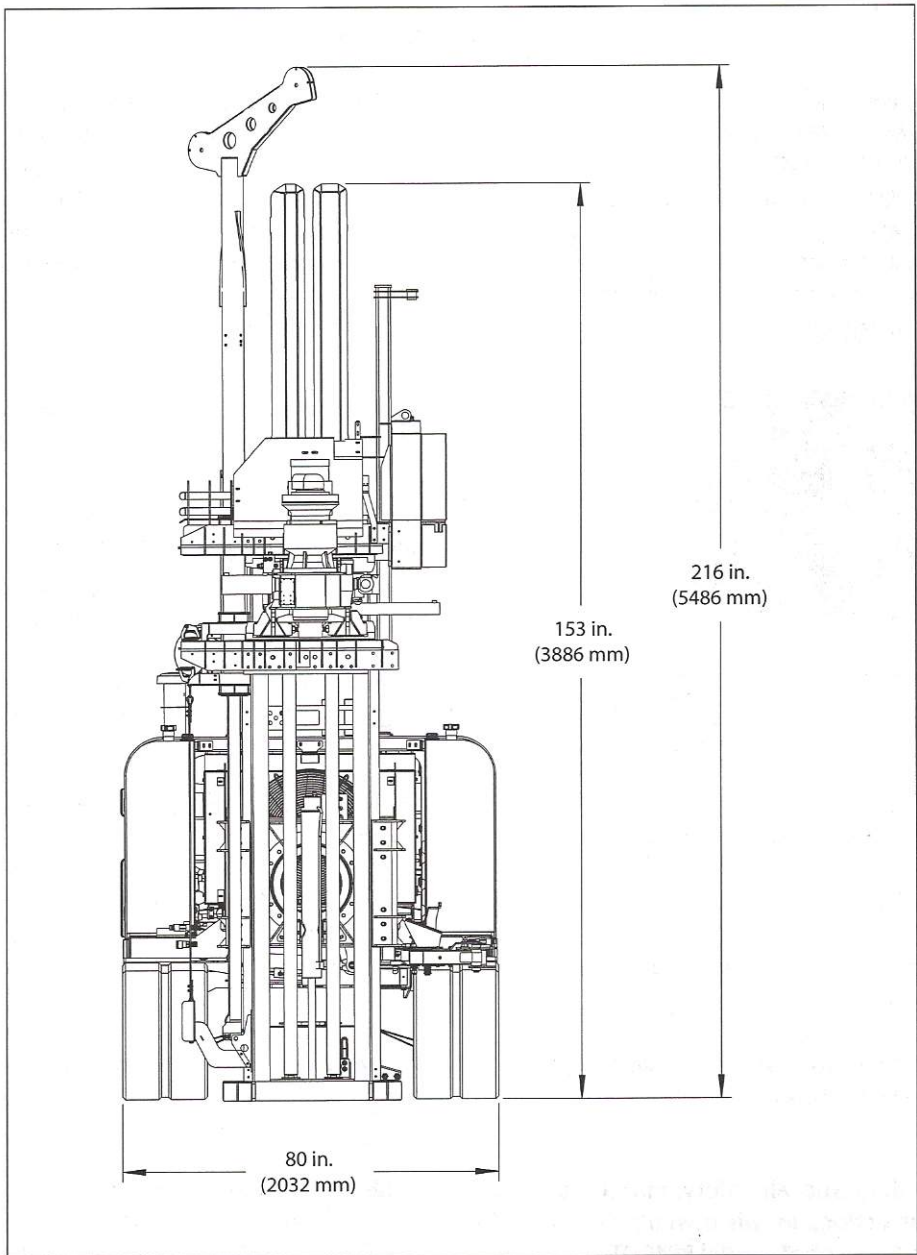


Figure 2.2: Geoprobe® Model 8040DT -- Probe derrick unfolded, front view.