



GEOPROBE® 8140LC ... in a Low Clearance Option



Geotechnical testing using an 8140LS equipped with auto drop hammer for a highway relocation project across a mining pit.

8140LC RIG OPTIONS

Sonic Head

222919 GV4 High Speed Coring Head Drive

Automatic Drop Hammer

213902 DH104 Automatic Drop Hammer, 140 lb. [No Mounting Kit]
 213903 DH104 Mounting Kit
 216826 Automatic Drop Hammer 340 lb. Expansion Kit
 217067 Automatic Drop Hammer 300 lb. Expansion Kit
 221820 Automatic Drop Hammer 170 lb. Expansion Kit
 210126 Automatic Drop Hammer 65 kg Expansion Kit

Safety Cage

215308 Safety Cage, compatible w/ Rod Handler
 212953 Safety Cage, 8140LC w/ no Rod Handler

Rod Handler

212525 Rod Handling System

Breakout

215023 Rigid Breakout Mount

Control System

207870 LCD Display Heater Kit
 216408 Head Feed Down Control Kit -- 8140LC

Water / Mud Pumps

210991 SPX40 Pump & Mount
 212595 Hose Reel Kit
 209925 Moyno® 3L6 with Table - Operator Side

Air Compressor

218584 Air Line Oiler Kit

Toolboxes

212954 53 in. Toolbox
 220333 48 in. Toolbox
 207214 20 in. Toolbox

Model 8140LC Specifications

TRACK PLATFORM / UNDERCARRIAGE		
Width (in)	80 in	2,032 mm
Length (transport) (in)	186 in	4,724 mm
Length (deployed, lateral fully retracted) (in)	185 in	4,699 mm
Length (deployed, lateral fully retracted, rod handler deployed) (in)	271 in	6,883 mm
Height (normal transport) (in)	110 in	2,896 mm
Height (deployed; winch mast up) (in)	249 in	6,325 mm
Height (min standard working height) (in)	192 in	4,877
Extension (fore and aft) (in)	15 in	381 mm
Lateral (side to side)	±8 degrees	
Drill Mast Dump (in)	25 in	635 mm
Base Unit Weight	19,350 lb	8,777 kg
Head Travel (in)	92 in	2,337 mm
Head Crowd/Pull Force (lbs)	20,000 lb	89 kN
Head Feed Carriage	Comp. slides	
Head Feed Pressure Control (w.o.b)	Optional	
Head Tilt Out		
Head Sideshift	26 in	660 mm
Outrigger Travel	16 in front, 26 in rear	406 mm front, 660 mm back
Engine (diesel)	CAT C4.4 Tier 3 Flex	
Engine Rated Power (hp)	142 hp	106 kW
Fuel Capacity (gal)	40 gal	151 L
Max angle drilling ability off vertical (degrees)	45 deg	
Approach/departure angle in transport (degrees)	24 deg	
Ground Speed (mph)	2.5 mph	4 km/hr
Electronic Controls	V1	
Sonic head	GV4	

HP LIMITED PUMP		
Max pressure (psi)	4,000 psi	275.8 bar
Max flow (gpm)	100 gpm	379 L/min

HYDROSTATIC PUMP		
Max pressure	NA	
Max flow	NA	

Max oscillator speed (Hz)		
Dynamic force @ max oscillator speed (lbf)	33,000 lbf	146.8 kN
Rotation (high torque/low speed) (lbf/rpm)	4,000 ft-lbf @ 80 rpm	5,423 N·m @ 80 rpm
Rotation (low torque/high speed) (lbf/rpm)	2,500 ft-lbf @ 120 rpm	3,390 N·m @ 120 rpm

STANDARD WINCH		
Line pull (lbf)	2,000 lbf	8.9 kN
Line speed (fpm)	110 fpm	33.5 m/min

TRIPLEX WATER PUMP		
Max pressure (psi)	1,000 psi	69 bar
Max flow (gpm)	25 gpm	95 L/min

DOUBLE WRENCH BREAKOUT		
Clamp force (lbf)	0 to 21,000	0 to 93.4 kN
Breakout torque (ft-lbf)	13,500 ft-lbf	18,303 N·m
Casing size compatible (in)	2 to 12 in	51 to 305 mm
Vertical travel (in)	9 in	229 mm

Geoprobe® Tooling Run with 8140LS

- Casing Sizes: 10 in., 8 in., 6 in., 4.5 in.
- SDT60 and SDT45 Weighted Wire Line Sampling
 - SDT60 and SDT45 Sonic Sampling
 - 8 x 10, 6 x 8, 4 x 6 Sonic Sampling
 - DT22 Soil Sampling
 - SP60 Groundwater Sampling
 - DH104 Auto Hammer for SPT

8140_{LC}

Rotary Sonic -- Low Clearance

- Geoprobe® Designed Rod Handling System
- Patented Geoprobe® GV4 Sonic Head
- Adjustable Swing-arm Control Panel
- 12-in. Double Wrench Breakout
- Front Outriggers for Added Stabilization
- Centerline Side-Shift Function
- 5-in. Tooling Compatible
- Rock Coring Compatible
- Auto Drop Hammer Compatible (SPT)
- Rear Blade Stabilizer and Tooling Transport



8140LC onsite at an abandoned grain storage facility.



Geoprobe Systems®
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