

# GEOPROBE® 8150LS ... 50K Dynamic Force



50K dynamic force from the Geoprobe® GV5 Sonic Head.

## 8150LS RIG OPTIONS

### Automatic Drop Hammer

221497	DH104 Automatic Drop Hammer, 140 lb. [w/ Mounting Kit]
213902	DH104 Automatic Drop Hammer, 140 lb. [No Mounting Kit]
222918	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

### Mast / Winch

220582	Secondary Winch Kit
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### Rotational Safety Cage

222917	Safety Cage
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### Rod Handler

221317	Rod Handler Kit
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### Water / Mud Pumps

220581	SPX40 Hose Pump Kit
221315	Triplex Hose Reel Kit - SPX Mount
221316	Triplex Hose Reel Kit - Rail Mount

### Air Compressor

222067	Air Compressor Kit, C6.6 with BA-922
218584	Air Line Oiler Kit

### Toolboxes

220333	48 in. Toolbox
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### Additional Options

216816	Drill Mast Adjustable Brace Kit
218880	GV5 Spindle Adapter, 6.0 in., 4.5 in., 3.5 in. Asm
220445	GV5 Matrix Spindle Asm

## 8150LS Rotary Sonic Specifications

TRACK PLATFORM / UNDERCARRIAGE		
Width	90 in	2,286 m
Length (transport)	300 in	7,620 mm
Length (deployed, lateral fully retracted)	240 in	6,096 mm
Length (deployed, lateral fully retracted, rod handler deployed)	314 in	7,976 mm
Height (normal transport)	114 in	2,896 mm
Height (deployed; winch mast up)	310 in	7,874 mm
Extension (fore and aft)	6 in	152 mm
Lateral (side to side)	±3.5 in	±89 mm
Drill Mast Dump	36 in	914 mm
Base Unit Weight	29,000 lb	13,154 kg
Head Travel	157 in	3,988 mm
Head Crowd/Pull Force	20,000 lb	89 kN
Head Feed Carriage	Rollers	
Head Feed Pressure Control (w.o.b)	Standard	
Head Sideshift	32 in	813 mm
Head tilt out	90 deg	
Outrigger travel	26 in	660 mm
Engine	CAT C6.6 Tier 3 Flex	
Engine Rated Power	225 hp	168 kW
Fuel Capacity	90 gal	341 L
Max angle drilling ability off vertical	45 deg	
Approach/departure angle in transport	24 deg	
Ground Speed	1.5 mph	204 km/hr
Electronic Controls	V2	
Sonic head	GV5	

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

HYDROSTATIC PUMP		
Max pressure	5000 psi	344.8 bar
Max flow	55gpm	208 L/min

Max oscillator speed		
150 Hz		
Dynamic force @ max oscillator speed	50,000 lbf	222.4 kN
Rotation (high torque/low speed)	4,000 ft-lbf @ 90 rpm	5,423 N-m @ 90 rpm
Rotation (low torque/high speed)	2,500 ft-lbf @ 140 rpm	3,390 N-m @ 140 rpm

STANDARD WINCH		
Line pull	2000 lbf	8.9 kN
Line speed	110 fpm	33.5 m/min

TRIPLEX WATER PUMP		
Max pressure	1000 psi	69 bar
Max flow	25 gpm	95 L/min

DOUBLE WRENCH BREAKOUT		
Clamp force	0 to 21,000 lbf	0 to 93.4 kN
Breakout torque	13,500 ft-lbf	18,303 N-m
Casing size compatible	2 to 14 in	51 to 356 mm
Vertical travel	9 in	229 mm



# 8150<sup>LS</sup>

## Rotary Sonic -- Long Stroke

- Geoprobe® GV5 Sonic Head
- Geoprobe® Designed Rod Handling System
- 50K Dynamic Force
- Remote Diagnostics
- Adjustable Swing-arm Control Panel
- Drill Mast Side-Shift
- Head Centerline Side-Shift
- Fits in 40 ft. Shipping Container
- 10-ft Tooling Compatible
- Rock Coring Compatible
- 14-in. Double Wrench Breakout
- Dual Winch System
- Front and Rear Outriggers (Four Point Stabilization)

8150LS fits in 40 ft. shipping container for transport.



Geoprobe Systems®  
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