

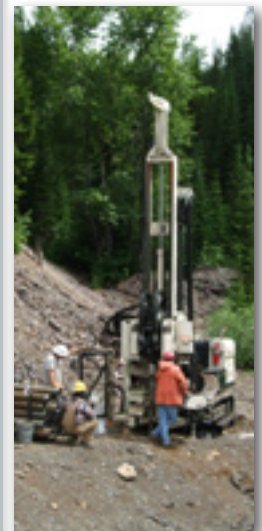
8150LS

8140LS

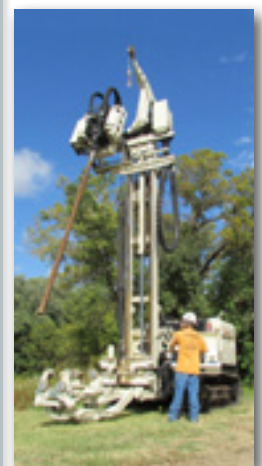
8140LC



	8150LS	8140LS	8140LC
Width (in)	90	85	80
Length (transport) (in)	300	298	186
Length (deployed, lateral fully retracted) (in)	240	185	185
Length (deployed, lateral fully retracted, rod handler deployed) (in)	314	270	271
Height (normal transport) (in)	114	114	110
Height (deployed; winch mast up) (in)	310	298	249
Height (min standard working height) (in)	NA	NA	192
Extension (fore and aft) (in)	6	11	15
Lateral (side to side)	±3.5 in	NA	±8 degrees
Drill Mast Dump (in)	36	NA	25
Base Unit Weight (lbs)	29,000	22,900	19,350
Head Travel (in)	157	157	92
Head Crowd/Pull Force (lbs)	20,000	20,000	20,000
Head Feed Carriage	Rollers	Comp. slides	Comp. slides
Head Feed Pressure Control (w.o.b)	Standard	Optional	Optional
Head Sideshift (in)	32	26	26
Head tilt out: (degrees)	90	25	25
Outrigger travel (in)	26	26	16 front/26 rear
Engine	CAT C6.6 Tier 3 Flex	CAT C4.4 Tier 3 Flex	CAT C4.4 Tier 3 Flex
Engine Rated Power (hp)	225	142	142
HP limited pump			
Max pressure (psi)	4,000	4,000	4,000
Max flow (gpm)	100	100	100
Hydrostatic pump			
Max pressure (psi)	5000	NA	NA
Max flow (gpm)	55	NA	NA
Fuel Capacity (gal)	90	40	40
Max angle drilling ability off vertical (degrees)	45	NA	45
Approach/departure angle in transport (degrees)	24	24	24
Ground Speed (mph)	1.5	1.5	2.5
Electronic Controls	V2	V1	V1
Sonic head	GV5	GV4	GV4
Max oscillator speed (Hz)	150	130	130
Dynamic force @ max oscillator speed (lbf)	50,000	33,000	33,000
Rotation (high torque/low speed) (lbf/rpm)	4,000/90	4,000/80	4,000/80
Rotation (low torque/high speed) (lbf/rpm)	2,500/140	2,500/120	2,500/120
Standard Winch			
Line pull (lbf)	2000	2000	2000
Line speed (fpm)	110	110	110
Triplex water pump			
Max pressure (psi)	1000	1000	1000
Max flow (gpm)	25	25	25
Double wrench breakout			
Clamp force (lbf)	0 to 21,000	0 to 21,000	0 to 21,000
Breakout torque (ft-lbf)	13,500	13,500	13,500
Casing size compatible (in)	2 to 14	2 to 12	2 to 12
Vertical travel (in)	9	9	9



Collecting core samples at a mining site with an 8140LS.



An 11-ft. SDT45 (sonic dual tube 4.5 in. OD) sample sheath is positioned for sample extraction from the 8140LS. The sampler is coupled to the sonic spindle with the SDT45 Spindle Connect Drive Head.