

ACCESSORIES

WATER INJECTION SYSTEM

Ideal system for dust control. This unit is equipped with a 14.5 HP drive engine and a triple piston pump that puts out 3 - 22 GPM (11.4 - 83.3 LPH). Complete with electric start, mounted in a guarded frame, and supplied with 1.5" (38 mm) inlet and 1" (25 mm) discharge hose.



OIL INJECTION SYSTEM/BIODEGRADABLE ROCK DRILL OIL

The oil injection system is a self contained, air-actuated positive displacement system. It comes equipped with either a 7 gallon (3.8 liter) reservoir with sight glass infinitely variable from 0 - 1 GPH (0-3.8 LPH) or a 22 gallon (83.2 liter) reservoir with sight glass infinitely variable from 0 - 4 GPH (0-15 LPH).

The biodegradable rock drill oil meets all EPA standards for biodegradability. Available in 55-gallon (208.2 liter) drums and five gallon buckets.

AIR MANIFOLD

The air manifold connects multiple compressors to a single airline. This manifold is equipped with two 4" (102 mm) and five 3" (76 mm) inlets, two 1" (25 mm) and three 1/4" (6.35 mm) auxiliary ports, and one 4" (102 mm) outlet.



RATCHET ATTACHMENT

The ratchet attachment is used to supply the LP drill with air when the drill rig is not equipped with air inlet. The ratchet is equipped with the LP's mating bolt flange, shoulder to shoulder lengths of 22" - 60" (559 mm - 1524 mm) and can be installed with any Kelly box. The ratchet will rotate 360° in one direction and 360° in the opposite direction allowing the unit to drill.



LOW PROFILE DRILL BREAKOUT STAND

Center Rock offers a specially designed breakout stand for quick bit changes and easy hammer maintenance or repair, on or off site.



DRILLING SUPPORT PLATFORM

Designed with safety and productivity in mind, Center Rock's Drilling Support Platform has all the accessories to support your onsite drilling program. It includes an air manifold with (6) 3" inlets and (1) 4" outlet, a 20 gallon oil injection system, a water injection system for dust suppression, and pressure gauges.

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**DRILL FASTER
RUN HARDER
WORK SMARTER**



LOW PROFILE CANISTER DRILLS

ADVANCED DESIGN DRILLS

Center Rock's LP Drills® provide a cost effective solution for large diameter rock drilling requirements up to 144" (3658 mm) in diameter. Our LP's have been used by some of the nation's largest foundation contractors, specialty drilling companies, as well as utility and mining contractors, to quickly drill holes to the specified depth and diameter.

- Convertible LP Drills (Conventional & Reverse Circulation capable)
 - Standard and custom-built sizes up to 144" (3658 mm) for all applications
 - Full Face and Hole Opener configurations
 - Direct Circulation with Calyx Basket or Can Rods
 - True Reverse Circulation with dual wall pipe
 - All canisters from 24" - 144" (610 mm - 3658 mm) utilize the same 6" (152 mm) class hammer
- Utility LP Pole Drills
 - Standard and custom-built sizes from 18" (457 mm) and larger for pole holes
 - Full Face and Hole Opener configurations
 - Direct Circulation with Can Rods
 - Specifically designed to work on Digger Derrick trucks
 - All canisters from 18" (457 mm) utilize the same 4" (102 mm) class hammer
- Mining LP Drills
 - Standard and custom-built sizes from 24" (610 mm) and larger for Raise Bore / Mining
 - Full Face and Hole Opener configurations with "stinger"
 - Direct Circulation with Can Rods
 - Designed with UG mining specific corrosion resistant parts
 - All canisters from 24" (610 mm) utilize the same 6" (152 mm) class hammer and roller stabilizers
- HDD Pull Reamers
 - Push-pull reamers custom-built sizes from 12" (305 mm) and larger for HDD applications
 - Full Face and Hole Opener configurations with "stinger"
 - Direct Circulation with CFA & roller stabilizer ring
 - Specifically designed to work on HDD units
 - All 12" (305 mm) tools utilize 3" (76 mm) class hammer and size up from there

APPLICATIONS

- CONSTRUCTION
 - Pileings
 - Caissons
 - Footers
 - Curtain Walls
 - Drilled Shafts
- OIL / GAS
 - Conductor Pipe
- UTILITY CONSTRUCTION TECHNOLOGY
 - Horizontal Directional Drilling (HDD)
 - Utility Pole Holes
- MINING
 - Access and ventilation shafts
 - Slot raises and burn holes



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MODELS AND APPLICATIONS

HDD LP PULL REAMER



- 12" (305 mm) and larger in diameter
- Capable of trailing drill pipe
- Equipped with roller stabilizers
- Side protection carbide buttons for extended wear

MINING LP DRILL

- 24" (610 mm) and larger in diameter
- Push or pull applications
- Equipped with roller stabilizers

REVERSE CIRCULATION LP DRILL

- 24" (610 mm) and larger in diameter
- Rock cuttings pickup point is at the base of the drill
- May easily be converted between reverse circulation and direct circulation with calyx basket

UTILITY LP DRILL

- 18" (457 mm) and larger in diameter
- Hex pin connection
- Low air consumption
- Short length for low clearance
- Lightweight design
- No shock sub required



SPECIFICATIONS

STANDARD SIZE LP DRILL SPECIFICATIONS								
LP FULL FACE DRILLS								
SIZE		NUMBER OF HAMMERS	MINIMUM AIR REQUIRED		RECOMMENDED AIR REQUIRED		WEIGHT WITH THE CALYX	
INCHES	MM		SCFM	M ³ /MIN	SCFM	M ³ /MIN	LBS	KG
24	610	4	1600	45	2000	57	3250	1474
25	635	5	2000	57	2500	71	3500	1587
26	660	5	2000	57	2500	71	4000	1814
28	711	5	2000	57	2500	71	4200	1905
30	762	5	2000	57	2500	71	4700	2131
32	813	6	2400	68	3000	85	5500	2494
33	838	6	2400	68	3000	85	6000	2721
34	864	6	2400	68	3000	85	6200	2812
35.5	900	7	2800	79	3500	99	6500	2948
36	914	7	2800	79	3500	99	6800	3084
41.5	1054	7	2800	79	3500	99	8300	3764
42	1067	7	2800	79	3500	99	8500	3855
48	1219	10	4000	113	5000	142	10700	4853
53	1346	12	4800	136	6000	170	12700	5760
58	1473	13	5200	147	6500	184	14900	6758
60	1524	13	5200	147	6500	184	16500	7484
66	1676	15	6000	170	7500	212	17250	7824
72	1829	17	6800	193	8500	241	19700	8935
84	2134	19	7600	215	9500	269	23000	10432

LP Hole Openers: Sizes up to 144" (3658 mm)

* Recommended Operating Pressure: 150-250 psi (10.3-17 .3 bars) (NOTE: With a head of water, greater air pressure may be required)

HOW IT WORKS

CONVERTIBLE LP DRILLS (CONVENTIONAL & REVERSE CIRCULATION CAPABLE)

Center Rock's reverse circulation LP Drills are ideal for deep hole applications or discharge containment. We offer two styles which are capped flute recovery and center recovery. The capped flute recovery style consists of, a standard LP drill with larger flutes that are capped, a seal band added to the base and interchanges, along with a shroud bolted to the top. The advantage of the flute style is the canister may be converted between RC and direct circulation mode. Alternatively, the center recover style has integrated return tubes flowing through the center of the canister, along with a built-in air/cuttings interchange for a shorter top connection. Both style RC LP Drills exhibit base recovery for full containment, can be manufactured with any pipe connection, and utilizes standard LP hammers and bits.



SHARED KEY FEATURES

- Bits are free to spin which helps to maintain gauge of bore hole and also reduces wear on bits.
- Cost effective solution for many drilling / hard rock excavation challenges.
- Easy to perform maintenance in the field.
- Reduced bit cost as compared to large diameter hammer bits.
- Low air consumption vs. competitive offerings.
- Easily mounted to any drill rig.
- Customer support service 24/7.
- Designed and manufactured in the USA.

JOBSITES



The LP emptying the calyx basket.



The LP drill mounted on a skid steer.



Reverse circulation LP drill.



Battered hole.