

CRI
CENTER ROCK INC.



GÁNDARA

SU EQUIPO EN CIMENTACIÓN

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LOW PROFILE CANISTER DRILLS



ADVANCED DESIGN DRILLS

Advanced engineering of Center Rock's LP Drills provide a cost effective solution for drilling excavation requirements (up to 120" in diameter). Our drills have been used by some of the nation's largest building, roadway, and mining contractors to quickly drill holes to the exact size required by their specifications.

- Standard and custom-built sizes from 24" - 120".
- Our full-face LP drills range from 24" - 84" and at Center Rock, we've developed a two-piece system of LP drills that can open holes to as large as 120".
- Easy to maintain in the field.
- Customer support service 24/7.
- New and improved version of standard canister drill.
- Cost effective solution for many drill / excavating challenges.
- Durable construction.
- Reduced bit cost.
- Low air consumption.
- Our reverse circulation LP Drill utilizes a unique airflow pattern to eliminate the need for a catyx basket
- Made in the USA with 100% US Steel!

APPLICATIONS

- **CONSTRUCTION**
 - Pilings
 - Caissons
 - Footers
 - Pole Holes
 - Curtain Walls
 - Shafts
- **UNDERGROUND CONSTRUCTION TECHNOLOGY / UTILITY POLE FOUNDATIONS / HORIZONTAL DRILLING**
- **OIL / GAS**
- **MISCELLANEOUS**
 - Mine Rescue

STANDARD SIZE LP DRILL SPECIFICATIONS

LP FULL FACE DRILLS

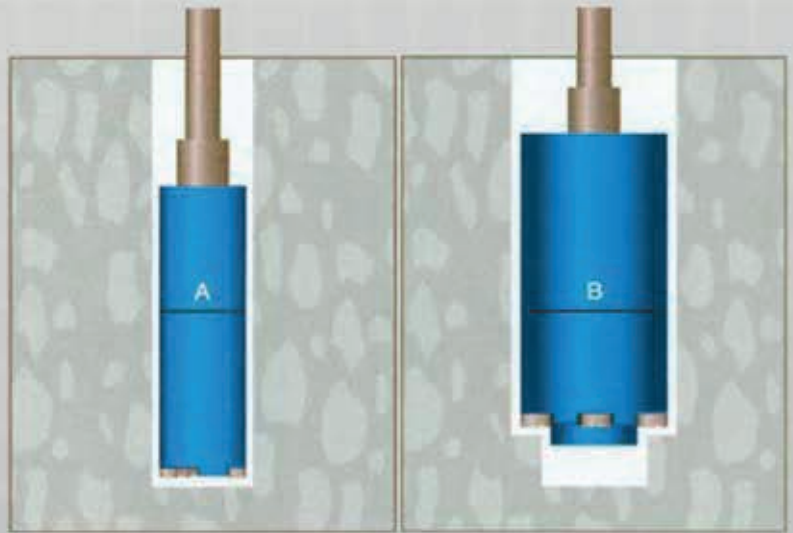
SIZE		NUMBER OF HAMMERS	MINIMUM AIR REQUIRED (scfm)	RECOMMENDED AIR REQUIRED (scfm)	WEIGHT WITH THE CALYX	
INCHES	MM				LBS	KG
24	610	4	1600	2000	3250	1474.2
25	635	5	2000	2500	3500	1587.6
26	660	5	2000	3500	4000	1814.4
28	711	5	2000	2500	4200	1905.1
30	762	5	2000	2500	4700	2131.9
32	813	6	2000	2500	5500	2494.8
33	838	6	2400	3000	6000	2721.6
34	864	6	2400	3000	6200	2812.3
35.5	900	7	2800	3500	6500	2948.4
36	914	7	2800	3500	6800	3084.5
41.5	1054	7	2800	3500	8300	3764.9
42	1067	7	2800	3500	8500	3855.6
48	1219	10	4000	5000	10700	4853.5
53	1346	12	4800	6000	12700	5760.7
58	1473	13	5200	6500	14900	6758.6
60	1524	13	5200	6500	16500	7484.4
66	1676	15	6000	7500	17250	7824.6
72	1829	17	6800	8500	19700	8935.9
84	2134	19	7600	9500	23000	10432.8

LP Hole Openers: Sizes up to 120"

*** Recommended Pressure: 150 -200 psi (NOTE: With a head of water, greater air pressure may be required)**

HOW IT WORKS

Hammers fitted with 7.875" bits are positioned in a specially designed grid to ensure even cutting across the face of the hole and to promote proper flow of cuttings outward and upward into the calyx basked. For large diameter holes, a pilot shaft is drilled with a full face LP Drill (Figure A), then a larger diameter hole opener opens the pilot shaft to the required diameter up to 120" (Figure B). This method allows for more efficient and faster rock drilling. Our drills have been used to cut holes up to 2,047 feet deep and are designed to reach much greater depths.



EQUIPMENT

AIR MANIFOLD



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

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 to 22 GPM. Complete with electric start, mounted in a guarded frame, and supplied with 1.5" inlet and 1" discharge hose.

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 matting bolt flange, shoulder to shoulder lengths of 22" to 60" and can install any Kelly box. To operate, the drill will rotate 360° one direction and 360° the opposite direction.

ROCK DRILL 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 reservoir with sight glass infinitely variable from 0-1 GPH or a 22 gallon reservoir with sight glass infinitely variable from 0-4 GPH.

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

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.

1450/200 AIR COMPRESSOR



Ideal air match / compressor for LP Drills. 1450 CFM at 200 psi.



CHILEAN MINE RESCUE

On August 22, 2010 the world was shocked to find out that 33 men trapped in a San Jose, Chile mine were alive in a safe room -- 17 days after the mine collapsed.

Brandon Fisher, Founder of Center Rock, Inc. in Berlin, Pennsylvania knew his company had the tools and technology to rescue the miners before the projected Christmas date. After almost two weeks of providing information and validity to the Center Rock Plan, Brandon and his team flew to the rescue site and provided hands on assistance. In what would later become to be known as "Plan B", Center Rock used their Down-the-Hole (DTH) drilling technology to open the initial 5.5" hole to 12". The next step was to use Center Rock's Low Profile (LP) Drill, which eventually broke through on October 9, 2010. Brandon and his Center Rock team worked around the clock and ultimately played a key role in this historical rescue mission. This team's never say quit attitude and their innovative ideas and technology impacted the lives of 33 men and their families. Over the next few days, the 33 miners were rescued flawlessly, the last surfacing on October 13, 2010.

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RUN HARDER



WORK SMARTER

