

DRILL FASTER BUN HARDER WORK SMARTER



INDUSTRIES SERVED



CONSTRUCTION

Center Rock Inc. serves the global construction industry by designing, manufacturing, and distributing a complete line of air drilling tools and products including DTH hammers & bits from 3.5"-48" (89-1219 mm) in diameter, LP® canister drills and hole-openers (conventional and reverse circulation) from 24"-144" (610-3658 mm), ROTO LOC® underreamer systems for casing advancement, and other support equipment such as water injection systems, oil injection systems, air manifolds, and Hydro-Jaw® breakout / make-up systems.



UTILITY AND HDD

Center Rock Inc. provides state-of-the-art drilling products to support the utility industry. Our mono-hammer utility pole drill offerings range from 3.5"-24" (89-610 mm) and include hex connection, side inlet swivel, and all ancillary items. Additionally, only Center Rock offers Utility LP® canister style drills 18" (457 mm) and larger and HDD LP® canister style drills 12" (305 mm) and larger. Multi-hammer canister style Utility LP Drills® boast lightweight construction, low vibration and low air requirements which will ensure success in any drilling condition and are perfectly suited for mounting on any digger derrick unit.



OIL AND GAS

Since day one, Center Rock has served the Oil and Gas industry with quality DTH hammers and bits ranging from 3.5"-36" (89-914 mm) and specifically designed to meet the rugged demands of deep hole drilling. With available on-site support, a consultative approach and 24/7 customer support, Center Rock is the Oil and Gas supplier of choice. From jet subs to diamond enhanced carbide bits to Hydro-Jaw® breakout / make-up systems, we have a tailored solution for any Oil and Gas drilling application.



MINING AND OUARRY

When it comes to drilling blast holes, Center Rock has a complete product portfolio of innovative tools and accessories to satisfy any surface or underground application requirement. We have DTH hammers and bits that will drill any size blast-hole. Also available is our Mining LP® canister drill, 20" (508 mm) and larger, for drilling utility/ventilation holes, burn holes, etc. Our mining LPs® are perfectly suited to drill either up, down or any inclination, from vertical to horizontal, in an underground mining environment.



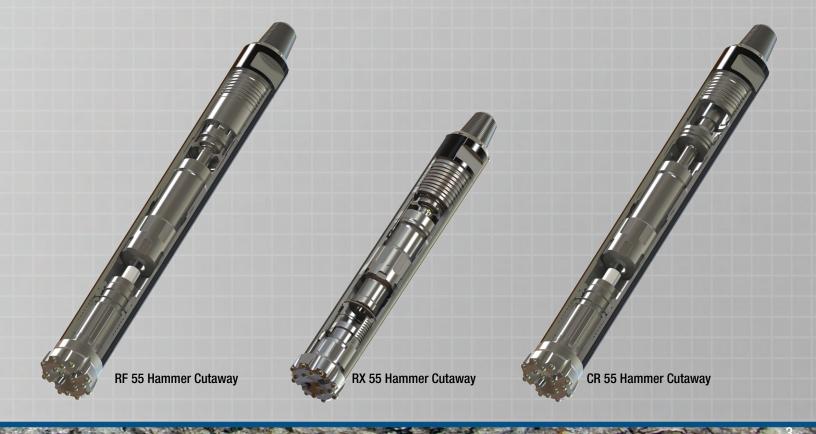
WATER WELL AND GEOTHERMAL

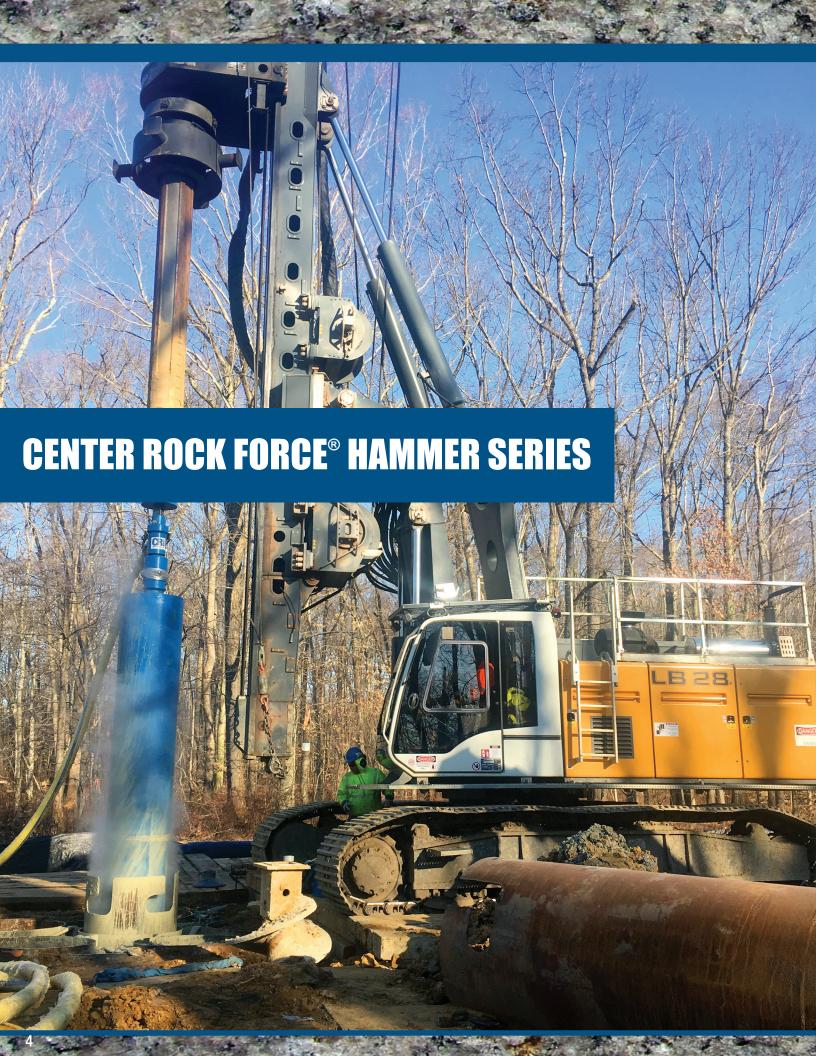
Center Rock Inc. designs and manufactures DTH hammers from 3.5"-22" (89-560 mm) and DTH button bits up to 36" (914 mm) with various shanks, face styles, and carbide button configurations. For drillers, we offer three lines of hammers; the valveless CR line, the valved Rock Force® (RF) (both utilize QL shank bits), and the Rock Xtreme® (RX) line. The RX® offering is the newest, valved, high frequency hammer developed by Center Rock with it's own bit shank design and no blow tube. Center Rock has also designed a unique underreamer overburden drilling system, ROTO LOC®, that drills and simultaneously advances casing.

YOUR DRILLING SOLUTION!

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CENTER ROCK FORCE® LINE OF DOWN-THE-HOLE HAMMERS

The Center Rock Force® line of high performance down-the-hole hammers and bits are available to suit a broad range of hole sizes and applications. All Center Rock Force® hammers feature a high efficiency and tunable valved air cycle to optimize performance on your compressor. Additionally, most models feature reversible casings so you can get the most footage from your hammer. For high air flow deep hole applications, accessories such as bit retrieval systems and jetted backheads are available.

- Great balance of simplicity and performance.
- Robust and reliable with minimal moving parts.
- Reversible casing.
- Solid piston.
- Industry standard bit shank.



CENTER ROCK FORCE® HAMMER SPECIFICATIONS

MODEL	RF3	5-STD	RF4	D-STD	RF50	-STD	RF55	-STD	RF6	O-STD
CPN	910	02395	9100	D1602	9100	1174	9100	0917	910	01065
DESCRIPTION	re	h 2-3/8 API g pin tection	reg	n 2-3/8 API J pin ection	reg	RF50 with 3-1/2 API reg pin connection		3-1/2 API onnection backhead	RF60 with 3-1/2 API reg pin connection	
APPLICATION SUITABILITY										
Geotechnical/Foundation		✓		✓	v					✓
Waterwell/Geothermal		✓		✓			V			✓
Quarry/Mining		✓		✓	v		v			✓
Mineral Exploration					٧					
Oil/Gas										
AVAILABLE OPTIONS										
Bit retainer system										✓
Jetted backhead										✓
Deep-hole design					٧					✓
GENERAL SPECIFICATIONS	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
Connection	2-3/8 A	API reg pin	2-3/8 A	PI reg pin	3-1/2 AP	l reg pin	3-1/2 AP	l reg pin	3-1/2 A	PI reg pin
Bit Shank	DH	D 3.5	CI	R40	QL	50	QL	50	Q	L60
Reversible casing		NO	ı	NO	YE	S	YE	ES	١	/ES
Outside diameter	3.19	81.0	4.00	101.6	4.75	120.7	5.00	127.0	5.44	138.2
Length w/o bit, shoulder to shoulder	30.0	762.8	36.8	934.0	42.4	1077.7	40.1	1017.3	42.7	1083.8
Length with bit extended	33.9	861.8	40.8	1036.1	46.6	1184.4	44.6	1132.6	47.8	1214.1
Length with bit retracted	32.6	828.5	39.7	1007.1	45.4	1153.9	43.3	1100.3	46.4	1179.1
Weight w/o bit	47.7	21.7	112	50.9	145	65.9	153	69.5	186	84.5
Backhead across flats (in)	1-1/4)	(2-1/2 AF	1-1/2	x 3 AF	2 x 3-	1/2 AF	2 x 3-	1/2 AF	2-1/2	2 x 4 AF
Minimum bit size	3.50	88.9	4.50	114.3	5.25	133.4	5.75	146.1	6.00	152.4
Maximum bit size	4.25	108.0	5.00	127.0	6.00	152.4	6.00	152.4	6.75	171.5
Bore	2.625	66.68	3.190	81.03	3.890	98.81	4.125	104.78	4.500	114.30
Piston weight	10.5	4.8	20.0	9.1	31.9	14.5	31.5	14.3	40.0	18.2
Stroke	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6
Maximum pressure (psig & bar)	350.0	24.1	350.0	24.1	350.0	24.1	350.0	24.1	350.0	24.1
Maximum choke diameter	0.25	6.35	0.25	6.35	0.50	12.70	0.50	12.70	0.38	9.53
Make-up torque (ft-lb & N-m)	3000	4062	4000	5416	5000	6770	5000	6770	6000	8124
AIR CONSUMPTION										
100 PSI/ 6,9 bar (scfm & m^3/min)	142	4.0	183	5.2	202	5.7	149	4.2	305	8.6
100 psi (bpm)	1289	1289	1226	1226	1116	1116	1116	1116	1122	1122
150 psi/ 10,3 bar (scfm & m^3/min)	219	6.2	284	8.0	310	8.8	247	7.0	431	12.2
150 psi (bpm)	1509	1509	1353	1353	1266	1266	1266	1266	1301	1301
200 psi/ 13,8 bar (scfm & m^3/min)	288	8.1	386	10.9	422	11.9	360	10.2	561	15.8
200 psi (bpm)	1699	1699	1479	1479	1401	1401	1401	1401	1453	1453
250 psi/ 17,2 bar (scfm & m^3/min)	348	9.8	488	13.8	538	15.2	488	13.8	695	19.6
250 psi (bpm)	1858	1858	1606	1606	1521	1521	1521	1521	1576	1576
300 psi/ 20,7 bar (scfm & m^3 min)	400	11.3	590	16.7	658	18.6	632	17.8	832	23.5
300 psi (bpm)	1987	1987	1733	1733	1626	1626	1626	1626	1671	1671
350 psi/ 24,1 bar (scfm & m^3/min)	444	12.5	691	19.5	783	22.1	791	22.3	973	27.5
350 psi (bpm)	2086	2086	1860	1860	1716	1716	1716	1716	1738	1738

RF65	-STD	RF80	-STD	RF88	-STD	RF100	-STD	RF120	D-STD	RF20	O-STD	RF200	S-STD						
9100	0912	9100	1192	9100	1223	91001	1593	9100	1390	9100	1256	9100	2141						
RF65 with reg pin co & cutting	onnection	RF80 with reg conne		RF88 with reg conne	pin	RF100 with reg (conne	pin	RF120 with reg pin co		reg pin co	h 8-5/8 API Onnection backhead	RF200S with 8-5/8 API reg pin connection and jetted backhead							
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			/		/	✓			/		/		/						
v	/	v	/	V	/														
_	_	٧		٧		✓				٧		•							
_		· ·	/		/	✓			/		_								
		٧	/	V	/	✓			/	,	/	,	/						
			/																
Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric						
3-1/2 AP			Pl reg pin .80	4-1/2 AP		6-5/8 API Reg Pin N100			Pl reg pin	8-5/8 API reg pin							Pl reg pin 200		
YE		YE		YE		NO NO		QL120 NO		QL200 YES				YES				-	200 ES
5.88	149.4	7.13	181.1	7.75	196.9	9.0	228.6	11.20	284.5	15.60	396.2	15.60	396.2						
41.8	1060.7	57.2	1452.6	58.9	1496.1	59.9	1520.2	72.9	1850.6	67.2	1705.6	73.7	1872.9						
46.0	1169.4	63.7	1618.0	66.8	1697.7	69.0	1753.4	83.6	2124.5	78.5	1992.9	85.3	2166.9						
44.9	1141.5	61.9	1571.5	64.9	1649.2	67.1	1704.3	81.4	2066.5	76.2	1935.7	83.1	211.5						
219 2-1/4 x :	99.5	443 2-1/2 x !	201.4	518 2 x 6-7	235.5	740.0 336.4 1358 0 2-1/2 x 7-1/2 AF 2-1/2 x 9-1/		617.3	2663 1210.5 1" Holes		3055	1385.7 loles							
6.50	165.1	7.88	200.2	8.75	222.3	9.63	244.6	12.25	311.2	17.50	444.5	28.00	711.2						
6.75	171.5	10.00	254.0	11.00	279.4	12.25	311.2	22.00	558.8	26.00	660.4	36.00	914.4						
4.875	123.83	5.875	149.23	6.410	162.81	7.54	191.52	9.25	234.95	12.25	311.15	12.25	311.15						
45	20.5	107.2	48.7	117	53.2	178.0	80.9	304	138.2	610	277.3	610	277.3						
4.00	101.6	4.00	101.6	4.00	101.6	4.0	101.6	4.00	101.6	4.00	101.6	4.00	101.6						
350.0	24.1	350.0	24.1	350.0	24.1	350.0	24.1	350.0	24.1	250.0	17.2	250.0	17.2						
0.00 6000	0.00 8124	0.00	0.00 10832	0.00 9000	0.00 12186	10000	0.00 13540	0.88 12000	22.23 16248	1.40 18000	35.56 24372	1.40 18000	35.56 24372						
	0.2.			0000	12.00		10010	.2000	10210										
235	6.6	358	10.1	560	15.8	581	16.4	909	25.7	1584	44.7	1584	44.7						
1350	1350	830	830	968	968	950	950	585	585	701	701	701	701						
383	10.8	571	16.1	826	23.3	1000	28.2	1336	37.8	2470	69.8	2470	69.8						
1456 543	1456 15.3	947 808	947 22.8	1050 1092	1050 30.8	1050 1400	1050 39.5	695 1811	695 51.2	807 3389	807 95.7	807 3389	807 95.7						
1561	1561	1063	1063	1132	1132	1150	1150	805	805	923	95.7	923	95.7						
713	20.1	1067	30.2	1358	38.4	1781	50.3	2333	65.9	4341	122.6	4341	122.6						
1667	1667	1180	1180	1215	1215	1250	1250	915	915	1049	1049	1049	1049						
894	25.3	1350	38.1	1624	45.9	2143	60.5	2903	82.0	5324	150.4	5324	150.4						
1773	1773	1297	1297	1297	1297	1350	1350	1025	1025	1185	1185	1185	1185						
1086	30.7	1656	46.8	1890	53.4	2486	70.2	3519	99.4	6340	179.1	6340	179.1						
1878	1878	1414	1414	1379	1379	1450	1450	1135	1135	1331	1331	1331	1331						

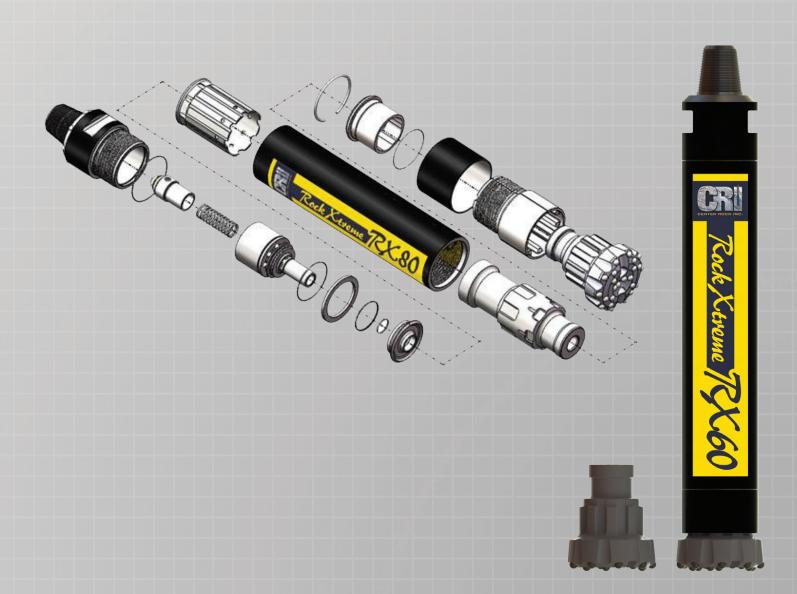


ROCK XTREME® LINE OF DOWN-THE-HOLE HAMMERS

Center Rock's Rock Xtreme® bits and hammers deliver undisputable performance and profitability in even the most challenging operating conditions.

Our bits, with 50% more actual spline area and no exhaust tube, weigh up to 60% less versus competitive offerings. That means optimum economy, reliability, durability and far less rig vibration during drilling, drastically reducing your downtime labor and replacement part costs.

- · High performance valved air cycle.
- · High frequency low vibration operation.
- No exhaust tube or foot valve.
- · Lightweight economical bits.
- Largest shank cross section available.



ROCK XTREME® HAMMER SPECIFICATIONS

	RCX45	- STD	RCX55	- STD	RX55	- STD	
	91002	2323	91001	1422	9100	1307	
	RCX45 w/4 I		RCX55 w/4- Box Coni		RX55 w/3-1/2 API Reg Pin Connection & Cutting Backhead		
TION SUITABILITY							
chnical/Foundation							
well/Geothermal					·		
y/Mining				V			
al Exploration	✓		✓				
s							
E OPTIONS:							
tainer							
. SPECIFICATIONS:	Imperial	Metric	Imperial	Metric	Imperial	Metric	
ection	4 Remet Box		4-1/2 Rei	met Box	3-1/2 AP	Reg Pin	
ank	RCX	45	RCX	55	R)	(5	
sible Casing	NO)	NO)	N	0	
le Diameter	4.56	115.8	5.25	133.4	5.00	127.0	
h w/o Bit Shoulder to Shoulder	35.2	894.6	35.2	894.3	30.50	773.9	
h w/Bit Extended	38.5	977.4	38.1	968.5	34.50	877.1	
h w/Bit Retracted	37.1	942.3	36.9	938.3	33.40	847.1	
t w/o Bit	108	49.1	132	60.0	124.00	56.4	
ead Across Flats (in.)	1-3/4 x 3	3.35 AF	1-3/4 x 4	-1/4 AF	1-3/4	k 4 AF	
num Bit Size	4.75	120.7	5.50	139.7	5.50	139.7	
num Bit Size	5.50	139.7	6.00	152.4	6.00	152.4	
	3.960	100.58	4.500	114.3	4.125	104.78	
Weight	22.1	10	30	13.6	29.00	13.2	
	3.25	82.6	3.25	82.6	3.25	82.6	
num Pressure Differential (psig & bar)	500.0	34.5	500.0	34.5	500.0	34.5	
num Choke Diameter	0.00	0.00	0.00	0.00	0.00	0.0	
-up Torque (ft-lb & N-m)	4500	6093	5000	6770	5000	6770	
SUMPTION:							
si/6,9 bar (scfm & m^3/min)	140	4.0	155	4.4	155	4.4	
si (bpm)	1350	1350	1350	1350	1116	1116	
si/10,3 bar (scfm & m^3/min)	231	6.5	257	7.3	257	7.3	
si (bpm)	1532	1532	1532	1532	1266	1266	
si/13,8 bar (scfm & m^3/min)	337	9.5	374	10.6	374	10.6	
si (bpm)	1695	1695	1695	1695	1401	1401	
si/17,2 bar (scfm & m^3/min)	457	12.9	508	14.3	508	14.3	
si (bpm)	1840	1840	1840	1840	1521	1521	
si/20,7 bar (scfm & m^3/min)	591	16.7	657	18.6	657	18.6	
si (bpm)	1967		1967		1626	1626	
si/24,1 bar (scfm & m^3/min)	739	20.9	822	23.2	822	23.2	
si/20,7 bar (scfm & m^3/min) si (bpm)	591 1967	16.7 1967	657 1967	18.6 1967	1	657 1626	

RX60 -	STD	RX65 -	STD	RX70 - :	STD	RX80 -	STD	RX120-	STD	
91001	245	91001	205	91002	122	91001	332	91002	560	
RX60 w/3-1/ Pin Conn		RX65 w/3 Reg Pin Con Cutting Ba	nection &	RX70 w/4-1/2 Pin Conn		RX80 w/4-1/ Pin Conn		RX120 w/6-5/8 API Reg Pin Connection		
									-	
✓				✓		✓		✓		
✓		✓		✓		✓		✓		
✓		_		✓		<u>√</u>		✓	_	
						√		✓	_	
Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	
3-1/2 API	Reg Pin	3-1/2 API I	Reg Pin	4-1/2 API F	Reg Pin	4-1/2 API I	Reg Pin	6-5/8 API F	Reg Pin	
RX6	6	RX6	5	RX7	,	RX8	3	RX12	0	
NO		NO		NO		YES		YES		
5.60	142.2	5.88	149.4	6.88	174.8	7.13	181.1	11.20	284.5	
30.90	784.9	30.90	784.9	34.30	872.0	35.50	900.4	46.7	1186.9	
34.40	873.8	34.40	873.8	39.00	989.3	40.20	1020.6	52.5	1333.8	
33.40	848.4	33.40	848.4	37.40	949.2	38.90	987.6	50.4	1280.9	
153.00	69.5	173.00	78.6	264	120.0	289.00	131.4	933	424.1	
2 x 4		2 x 4.	AF 165.1	2-1/2 x		1-3/4 x 5-		2-1/4 x 1		
6.13	155.7 171.5	6.50	171.5	7.88 8.88	200.2	7.88	200.2 254.0	12.25	311.2 558.8	
4.625	117.48	4.625	117.48	5.64	143,18	5.875	149.23	9.50	241.30	
35.00	15.9	35.00	15.9	58.1	26.4	72.60	33.0	239	108.6	
3.50	88.9	3.50	88.9	3.50	88.9	3.50	88.9	3.50	88.9	
350.0	24.1	350.0	24.1	350.0	24.1	350.00	24.1	350.00	24.1	
0.38	9.53	0.38	9.53	0.53	13.46	0.88	22.23	0.88	22.23	
6000	8124	6000	8124	7000	9478	8000	10832	12000	16248	
305	8.6	305	8.6	265	7.5	358	10.1	804	22.7	
1461	1461	1461	1461	1068	1068	830	830	585	585	
431	12.2	431	12.2	442	12.5	571	16.1	1248	35.3	
1576	1576	1576	1576	1294	1294	947	947	695	695	
561	15.8	561	15.8	649	18.3	808	22.8	1680	47.5	
1691	1691	1691	1691	1502	1502	1063	1063	805	805	
695	19.6	695	19.6	886	25.0	1067	30.2	2100	59.3	
1806	1806	1806	1806	1690	1690	1180	1180	915	915	
832	23.5	832	23.5	1152	32.5	1350	38.1	2508	70.8	
1921 973	1921	1921 973	1921	1860	1860 40.9	1297	1297	1025 2904	1025	
2036	27.5	2036	27.5	2010	2010	1656 1414	46.8 1414	1135	82.0	
2030	2030	2030	2030	2010	2010	1414	1414	1133	1135	



CR LINE OF DOWN-THE-HOLE HAMMERS

Center Rock's CR line of down-the-hole drills are reliable drilling workhorses that stand up to the most demanding conditions. A valveless air cycle provides consistent drilling performance and reliability foot after foot and year after year. Some models are available with integrated jetted backheads as well as a bit retainer system for deep-hole drilling applications.

Because we understand the importance of piston to bit weight ratio, we would like to introduce our largest hammer, the CR 360. So whether you are drilling a rock socket with a 36" (914 mm) bit or advancing 48" (1219 mm) casing, the CR 360 has a piston heavy enough to do the job!

- Great balance of simplicity and performance.
- Robust and reliable with minimal moving parts.
- · Reversible casing.
- · Solid piston.
- Industry standard bit shank.



CR HAMMER SPECIFICATIONS

MODEL	CR50 -	STD	CR55	- STD	CR65	- STD	CR80	-STD	CR88
CPN	91000	343	9100	0726	9100	0389	9100	0301	9100
DESCRIPTION	CR50 w/3-1/ Pin Conn		CR55 w/3 Reg Pin Co Cutting B	nnection &	Connectio	1/2 API Pin n & Cutting head	CR80 w/4-1/2 API Reg Pin Connection		CR88 w/A
APPLICATION SUITABILITY:									
Geotechnical/Foundations	✓							✓	-
Waterwell/Geothermal	✓		v	/				✓	-
Quarry/Mining	✓		v	/		/		✓	
Mineral Exploration	✓								
Oil/Gas								√	·
AVAILABLE OPTIONS:									
Bit Retainer System								√	·
Jetted Backhead					,	/		✓	v
GENERAL SPECIFICATIONS:	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Connection	3-1/2 API I	Reg Pin	3-1/2 AP	l Reg Pin	3-1/2 AP	l Reg Pin	4-1/2 API	Reg Pin	4-1/2 AP
Bit Shank	QL50	0	QL	50	QL	.60		QL 80	CR
Reversible Casing	YES	;	YE	S	YI	ES	YE	S	YE
Outside Diameter	4.75	120.7	5.00	127.0	5.88	149.4	7.13	181.1	7.75
Length w/o Bit Shoulder to Shoulder	42.40	1077.7	40.10	1017.3	41.80	1060.7	57.20	1452.6	58.90
Length w/Bit Extended	46.60	1184.4	44.60	1132.6	46.00	1169.40	63.70	1618.0	66.80
Length w/Bit Retracted	45.40	1153.9	43.30	1100.3	44.90	1141.50	61.90	1571.5	64.90
Weight w/o Bit	145	65.9	153	69.5	219	99.5	443	201.4	518
Backhead Across Flats (in.)	2 x 3-1/	2 AF	2 x 3-1/2 AF		2-1/4 x	3-1/2 AF	2-1/2 x 5	-7/8 AF	2 x 6-7
Minimum Bit Size	5.25	133.4	5.75	146.1	6.50	165.1	7.88	200.2	8.75
Maximum Bit Size	6.00	152.4	6.00	152.4	6.75	171.5	10.00	254.0	11.00
Bore	3.890	98.81	4.125	104.78	4.750	120.65	5.875	149.23	6.410
Piston Weight	31.90	14.5	31.50	14.3	45.00	20.5	107.20	48.7	117.00
Stroke	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	4.00
Maximum Pressure (psig & bar)	350.00	24.1	350.0	24.1	350.00	24.1	350.00	24.1	350.00
Maximum Choke Diameter	0.50	12.70	0.50	12.70	0.00	0.00	0.00	0.00	0.00
Make-up Torque (ft-lb & N-m)	5000	6700	5000	6770	6000	8174	8000	10832	9000
AIR CONSUMPTION:									
100 psi/6,9 bar (scfm & m^3/min)	202	5.7	155	4.4	235	6.6	400	11.3	548
100 psi (bpm)	1116	1116	1116	1116	1350	1350	968	968	968
150 psi/10,3 bar (scfm & m^3/min)	310	8.8	257	7.3	383	10.8	590	16.7	821
150 psi (bpm)	1266	1266	1266	1266	1456	1456	1050	1050	1050
200 psi/13,8 bar (scfm & m^3/min)	422	11.9	374	10.6	543	15.3	780	22.0	1093
200 (bpm)	1401	1401	1401	1401	1561	1561	1132	1132	1132
250 psi/17,2 bar (scfm & m^3/min)	538	15.2	508	14.3	713	20.1	970	27.4	1366
250 (bpm)	1521	1521	1521	1521	1667	1667	1215	1215	1215
300 psi/20,7 bar (scfm & m^3/min)	658	18.6	657	18.6	894	25.3	1160	32.8	1639
300 (bpm)	1626	1626	1626	1626	1773	1773	1297	1297	1297
350 psi/24,1 bar (scfm & m^3/min)	783	22.1	822	23.2	1086	30.7	1350	38.1	1912
350 (bpm)	1716	1716	1716	1716	1878	1878	1379	1379	1379

-STD	CR100-	STD	CR120) - STD	CR20	10 - STD	CR26	D-STD	CR360-	STD						
0468	910002	265	9100	0492	910	04054	9100	2916	910042	267						
4-1/2 API onnection	CR100 w/6-5/ Pin Conno			5/8 API Reg nection		8-5/8 API Reg nnection	CR260 w/ Reg Pin Co		CR360 w/ 15" Male Hex Connection							
·	√			/		√	V									
,	✓			/		✓		/								
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	✓			/		✓	•									
Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric						
Reg Pin	6-5/8 API F	4	6-5/8 API Reg Pin					8-5/8 API Reg Box								Male Hex
88 :S	N100)		120		L200	CR260		CR360)						
196.9	9.00	228.6	11.20	284.5	15.60	YES 396.2	22.00 YE	559.9	YES 34.0	864						
1496.1	59.90	1520.2	72.90	1850.6	67.20	1705.6	74.3	1887.0	95.8	243						
1697.7	69.00	1753.4	83.60	2124.5	78.50	1992.9	87.00	2210.0	113.2	287						
1649.2	67.10	1704.3	81.40	2066.5	76.20	1935.7	84.80	2153.0	110.8	281						
235.5	740	336.4	1358	617.3	2663	1210.5	5842	2655.0	17750	806						
/16 AF	2-1/2 x 7-	2-1/2 x 7-1/2 AF		/2 x 9-1/4 AF		Holes	2-1/2 >	21 AF	2-1/2 x 3	2 AF						
222.3	9.63	244.6	12.25	311.2	17.50	444.5	26.0	660.0	36.0	91						
279.4	12.25	311.2	22.00	558.8	26.00	660.4	38.00	965.0	54.0	137						
162.81	7.540	191.52	9.250	234.95	12.25	311.2	17.150	436.0	28.0	71						
53.2	178.00	80.9	304.00	138.2	610.00	277.3	1422.00	646.0	5165	234						
101.6	4.00 350.00	101.6	4.00 350.00	101.6	4.00 250.00	101.6 17.2	5.00 250.00	127.0 17.2	5.0 250.0	12						
0.00	0.00	0.00	0.88	22.23	1.40	35.56	1.22	31.00	2.0	5						
12186	10000	13540	12000	16248	18000	24372	30000	40620	50000	67700						
15.5	581	16.4	866	24.5	1541	43.5	2356	66.6	5.066	143.						
968	950	950	585	585	701	701	676	676	568	56						
23.2	1000	28.2	1292	36.5	2426	68.4	3625	102	7795	22						
1050	1050	1050	695	695	807	807	838	838	704	70						
30.9	1400	39.5	1715	48.5	3293	92.9	5043	142	10844	30						
1132 38.6	1150 1781	1150 50.3	805 2135	805 60.3	923 4143	923 116.8	991 6611	991	833 14216	83 40						
1215	1250	1250	915	915	1049	1049	1135	1135	953	95						
46.3	2143	60.5	2551	72.1	4972	140.2	N/A	N/A	N/A	N/.						
1297	1350	1350	1025	1025	1185	1185	N/A	N/A	N/A	N/						
54.0	2486	70.2	2964	83.7	5785	163.1	N/A	N/A	N/A	N/						
1379	1450	1450	1135	1135	1331	1331	N/A	N/A	N/A	N/A						

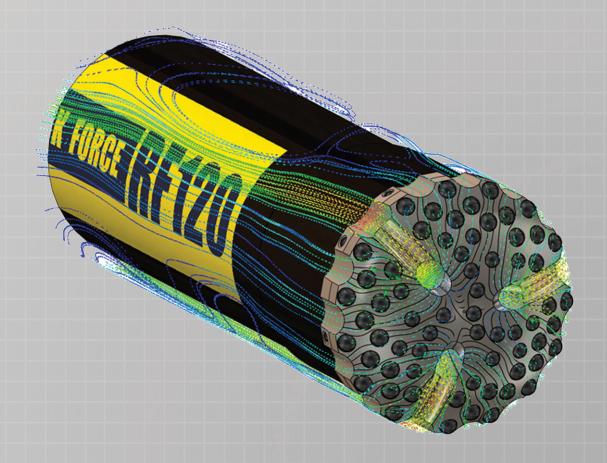


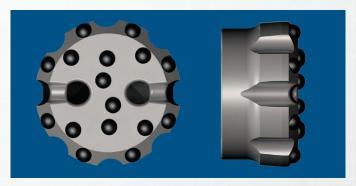
CRI LINE OF BITS

Nothing is more important to drilling success than drill bits that cut straight and fast through all types of rock. That's why we offer our customers the best value in drill bits. Center Rock has a full range of face designs, button configurations, and shank styles in many sizes up to a 48" (1219 mm) head, to match application and rock they are drilling.

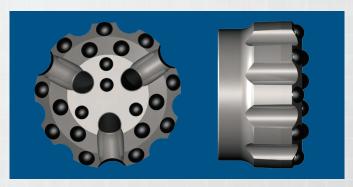
WHY CRI BITS

- Made from premium alloy steel and high quality tungsten carbide.
- Heat treated and shot peened to deliver a durable and reliable balance of strength and toughness.
- Large bit forgings are individually ultrasonically tested and screened for inclusions and flaws.
- · Specially designed bits for any application.
- Multiple varieties of head, face, shank and inserts available.
- Advanced flow simulation (CFD) is used to improve chip removal and air flow.
- Designed and manufactured in the USA.





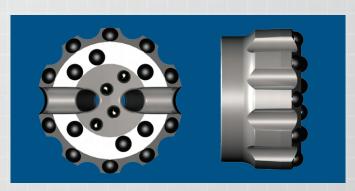
Flat Face (F), design for medium hard to hard formations, good flushing and good penetration rates.



Convex (V), design with double gauge row for medium to hard and abrasive formations, good flushing and good penetration rates.



Concave/Convex (X), the best of both worlds with double gauge row and concave center for medium to hard and abrasive formations, straight holes, excellent flushing and excellent penetration rates.



The All-Purpose Concave (C), for soft to medium hard formations, straight holes, excellent flushing and fast penetration rates.



Cyclops, unique single port design maximizes bit strength and minimizes the risk of bit head splitting or chunking caused by operational and manufacturing induced fatigue stress.



Back Reamer, designed for use in unstable rock drilling conditions where operator has to back ream to remove tools from hole. The back reaming inserts protect the bit body from wear and damage when grinding out of hole.

	CENTER ROCK BIT OPTIONS																
			F	ace S	Style	S	Head Styles		Flushing Holes			Gauge Carbide Size					
Shank	Min dia	Max dia	F	C	V	X	S	T	R	1	2	3	9/16"	5/8"	3/4"	7/8"	1"
CR40	4.50 in/114 mm	5.50 in/140 mm	0	0	S	0	S	0	N	N	S	N	S	0	N	N	N
QL50	5.13 in/130 mm	6.00 in/152 mm	0	S	0	0	S	0	N	0	S	N	0	S	0	N	N
RX55/RCX55	5.50 in/140 mm	6.00 in/152 mm	0	S	0	0		N/A		0	S	0	0	S	0	N	N
QL60	6.00 in/152 mm	8.50 in/216 mm	0	S	0	S	S	S	S	0	S	0	N	S	0	N	N
360	6.00 in/152 mm	8.50 in/216 mm	0	S	0	S	S	S	S	0	S	0	N	S	0	N	N
RX60	6.25 in/159 mm	6.75 in/172 mm	0	S	0	0		N/A		0	S	0	N	S	0	0	0
380	7.88 in/200 mm	12.00 in/305 mm	0	0	0	S	N	S	S	S	S	0	N	N	S	0	N
QL80	7.88 in/200 mm	12.00 in/305 mm	0	0	0	S	N	S	S	S	S	0	N	N	S	0	N
RX80	7.88 in/200 mm	9.88 in/251 mm	0	0	0	S		N/A		0	S	0	N	N	S	0	N
CR88	8.75 in/222 mm	12.00 in/305 mm	0	0	0	S	N	S	S	S	S	0	N	N	S	0	N
N100/CR100	9.63 in/245 mm	12.25 in/311 mm	0	0	0	S	N	S	S	S	N	0	N	N	S	0	N
SD10	9.63 in/245 mm	12.25 in/311 mm	0	0	0	S	N	S	S	S	N	0	N	N	S	0	N
112	11.00 in/279 mm	17.50 in/445 mm	0	0	0	S	N	S	N	S	N	0	N	N	S	0	N
SD12	11.00 in/279 mm	17.50 in/445 mm	0	0	0	S	N	S	N	S	N	0	N	N	S	0	0
QL120	12.25 in/311 mm	24.00 in/610 mm	0	0	0	S	N	S	S	S	N	0	N	N	0	S	0
QL200	17.50 in/445 mm	26.00 in/660 mm	0	0	0	S	N	S	0	S	N	0	N	N	N	0	S
N180	17.50 in/445 mm	26.00 in/660 mm	0	0	0	S	N	S	N	S	N	0	N	N	0	S	S
QL200S	28.00 in/711 mm	36.00 in/914 mm	0	0	0	S	N	S	0	S	N	0	N	N	N	0	S

Key Code: S - Standard Offering

0 - Optional Offering/Custom Order (Not Stocked)

N - Not Offered

Face Style: F - Flat Face

Head Style:

C - Concave Face

V - Convex Face

X - Concave/Convex Face

Flushing Holes:

1 - Cyclops Single Hole

2 - Two Flushing Holes

3 - Three Flushing Holes

Optional Carbide Grades:

Standard (Balanced Toughness and Wear Resistance)

Premium Grade Carbide (Increased Toughness and Wear Resistance)

Extra Tough for Hard Rock

Semi Ballistic (Parabolic)

Premium Diamond (Increased Toughness and Wear Resistance)

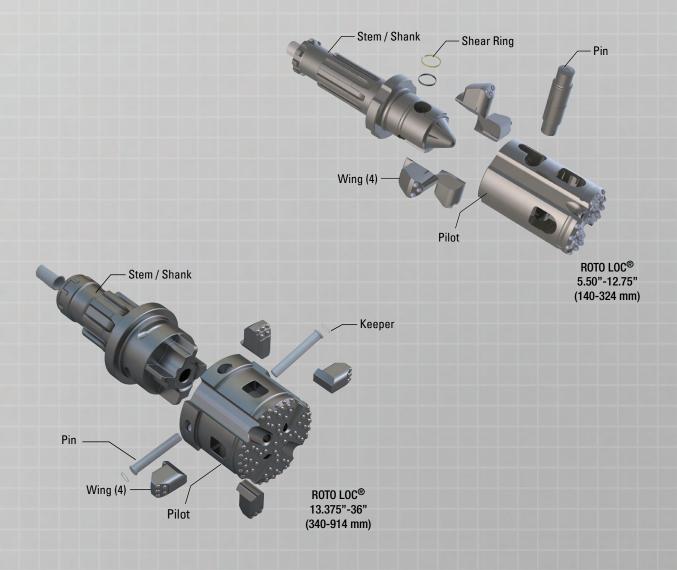




ROTO LOC® UNDERREAMER

Center Rock's ROTO LOC® is the ultimate underreamer system. It delivers straighter holes, minimizes casing friction ROTO LOC® is an overburden drilling system for casing advancement, developed by Center Rock. With wings that lock in place and are easily retractable, ROTO LOC® is able to drill straight, full diameter holes through any formation, including pinnacle limestone and karst. ROTO LOC® saves you money because there isn't any expensive starter casing J-teeth or ring bits needed.

- Sizes from 5.5"-36" (140-914 mm).
- Wings lock in place to cut full diameter through any rock formation.
- No expensive starter casing teeth or ring bit left in the hole.
- Easily retractable wings.
- Straight holes in pinnacle limestone and karst, eliminating bent or broken casing.
- · Positive locking wings can be used to retrieve casing.
- Simple, quick wing replacement.



As the pilot bit rotates and makes contact with the ground, the drive pin rotates into locked position and the wings are fully extended. While in this position, the wings are positively locked, ensuring that the pilot will drill a borehole to full expanded diameter until retracted. The long nose on the pilot leads/guides the tooling through sloping and karstic formations maintaining the desired angle and minimizing deviation. When the target is reached, with a slight bump backwards, the pin moves to the retract position allowing the wings to collapse in. At that point, the bit is retracted from the casing, leaving the casing behind.

ROTO LOC® is the ultimate under reamer system. It delivers straighter holes, minimizes casing friction which can cause casing failures, requires NO expensive casing teeth, and provides industry-leading penetration rates.



			WING D	IAMETER	SHOULDER	APPLICABLE CASING	WALL THICKNESS	WEIGHT
SYSTEM	SHANK	WINGS	EXPANDED	RETRACTED	DIAMETER	OD	MAX	WEIGHT
			IN (MM)	IN (MM)	IN (MM)	IN (MM)	IN (MM)	LBS (KGS)
NO DRIVE SHOE	SYSTEM							
R0C-0550RL	CR40, 340	2	5.86 (148.8)	4.38 (111.3)	N/A	5.500 (139.7)	.500 (12.7)	47 (22)
R0C-0600RL	CR40, 340	2	6.35 (161.3)	4.92 (125.0)	N/A	6.000 (152.4)	.500 (12.7)	58 (26)
R0C-0663RL	QL50	2	7.16 (181.9)	5.50 (139.7)	N/A	6.625 (168.3)	.500 (12.7)	71 (32)
ROC-0700RL	QL50, QL50HD, QL60, 360	2	7.75 (196.8)	5.94 (150.9)	N/A	7.000 (177.8)	.500 (12.7)	83 (38)
R0C-0763RL	QL60, QL60HD	2	8.34 (211.8)	6.52 (165.6)	N/A	7.625 (193.7)	.500 (12.7)	108 (49)
R0C-0863RL	QL60, QL60HD	4	9.35 (237.5)	7.50 (190.5)	N/A	8.625 (219.1)	.500 (12.7)	168 (76)
R0C-0963RL	QL80, 380	4	10.37 (263.4)	8.41 (213.6)	N/A	9.625 (244.5)	.545 (13.8)	231 (105)
R0C-1075RL	QL80	4	11.42 (290.1)	9.45 (240.0)	N/A	10.750 (273.1)	.595 (15.1)	250 (113)
R0C-1188RL	N100	4	12.54 (318.5)	10.17 (258.3)	N/A	11.875 (301.6)	.750 (19.1)	444 (201)
DRIVE SHOE SYS	TEM							
R0C-0600RL	CR40, 340	2	6.35 (161.3)	4.92 (125.0)	5.27 (133.9)	6.000 (152.4)	.250 (6.4)	58 (26)
R0C-0663RL	QL50	2	7.16 (191.6)	5.50 (139.7)	6.25 (158.8)	6.625 (168.3)	.250 (6.4)	71 (32)
R0C-0963RLS	QL80, 380	4	10.37 (263.4)	7.92 (201.2)	8.75 (222.3)	9.625 (244.5)	.545 (13.8)	233 (106)
R0C-1075RLS	QL80	4	11.42 (290.1)	9.45 (240.0)	9.90 (251.5)	10.750 (273.1)	.350 (8.9)	306 (139)
R0C-1275RLS	N100	4	13.42 (340.9)	10.87 (276.1)	11.62 (295.2)	12.750 (323.9)	.625 (15.9)	521 (236)
R0C-1338RLS	N100	4	14.07 (357.4))	11.50 (292.1)	12.41 (315.2)	13.375 (339.7)	.750 (19.1)	500 (227)
R0C-1400RLS	N100	4	14.49 (368.0)	11.54 (293.1)	13.05 (331.5)	14.000 (355.6)	.750 (19.1)	510 (231)
R0C-1600RLS	QL120	4	16.88 (428.8)	14.07 (357.4)	15.13 (384.3)	16.000 (406.4)	.500 (12.7)	848 (385)
R0C-1800RLS	QL120	4	18.80 (477.5)	15.44 (392.2))	17.03 (432.6)	18.000 (457.2)	.845 (21.5)	998 (453)
R0C-2000RLS	QL200	4	20.87 (530.1)	17.63 (447.8)	19.06 (484.1)	20.000 (508.0)	.625 (15.9)	1353 (614)
R0C-2400RLS	QL200	4	24.88 (632.0)	21.20 (538.5)	22.81 (579.4)	24.000 (609.6)	.845 (21.5)	1868 (847)
R0C-3000RLS	CR260	4	30.87 (784.1)	26.90 (683.3)	28.80 (731.5)	30.000 (762.0)	1.000 (25.4)	4887 (2217)
ROC-3600RLS	CR260	6	36.90 (937.3)	33.88 (860.6)	34.82 (884.4)	36.000 (914.4)	1.000 (25.4)	5164 (2342)















LOW PROFILE (LP) 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.

HOW IT WORKS:

Air and rotation are provided to a canister which is outfitted with hammers and button bits that 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 basket or into RC collection ports for deephole reverse circulation applications & discharge containment. For very large diameter holes, a pilot shaft is drilled with a full face LP Drill then a larger diameter LP Hole Opener uses the pilot hole as a guide and drills the borehole out to the required diameter up to 144" (3658 mm). Our drills have been used to cut holes up to 2,047 ft (623.9 m) deep and are designed to reach much greater depths.

LP MODELS:

- · Convertible LP Drills (Conventional & Reverse Circulation capable)
 - Standard and custom-built sizes from 24"-144" (610-3658 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" (610-3658 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

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.

COMMON APPLICATIONS:

- CONSTRUCTION
 - Pilings
 - 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

MODELS AND APPLICATIONS

HDD LP PULL REAMER



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

MINING LP DRILL

- 24" (610 mm) and larger in diameter
- · Push or pull applications
- · Equipped with back reamers

CONVERTIBLE LP DRILL

- 24" (610 mm) and larger in diameter
- Rock cuttings pickup point is at the base of the drill (yellow arrows)
- Can simply be converted between reverse circulation and direct circulation style

UTILITY LP DRILL

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



STANDARD SIZE LP DRILL SPECIFICATIONS

LP FULL FACE DRILLS

S	IZE	NUMBER OF		IUM AIR JIRED		ENDED AIR Uired	WEIGHT WITH THE CALYX		
INCHES	MM	HAMMERS	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)



HYDRO-JAW® BREAKOUT SYSTEMS (1200 and 2400)



The Hydro-Jaw® breakout machines use a heavy-duty chain-link jaw design to quickly breakout or make-up bits, DTH hammer joints, and other API tool connections to keep your operation running smoothly. Powered by a Honda 5.5 or 8 horsepower gasoline engine linked to a single-stage hydraulic pump, the Hydro-Jaw® is portable and easily moved around the job site. It is designed to safely operate in the horizontal or vertical position. A lifting eye and forklift slots make it easy to load and unload. Electric units are also available in 230 volt single phase and 230 or 480 volt 3 phase. Both units run quieter, with no exhaust fumes and with less vibration than the gas or diesel models. With its excellent power and adjustability, the Hydro-Jaw® is ideal for breakout / makeup in a wide range of drilling applications.



HYDRO-JAW® SPECIFICATIONS											
	HYD0-JAV	V [®] 1200	HYDRO-JAW® 2400								
	IMPERIAL	METRIC	IMPERIAL	METRIC							
Standard Range	5.5 in. O.D. to 12 in. O.D.	14 cm 0.D. to 30.5 cm	12 in. O.D. to 16 in. O.D.	30.5 cm 0.D. to 40.6 cm							
w/Optional Jaw Package	3 in. O.D. to 5.5 in. O.D.	7.6 cm O.D. to 30.5 cm	8 in. O.D. to 12 in. O.D. 16 in. O.D. to 22 in. O.D.	20.3 cm to 30.5 cm 40.6 cm to 55.9 cm							
Weight	1500 lbs	680.4 kg	2400 lbs	1088.6 kg							
Shipping Weight	1900 lbs	861.8 kg	2700 lbs	1224.7 kg							
Length (without handle)	51 in.	129.5 cm	72 in.	182.9 cm							
Length (with handle)	69 in.	175.3 cm	N/A	N/A							
Height	50 in.	127.0 cm	60 in.	152.4 cm							
Width	32 in.	81.3 cm	48 in.	121.9 cm							
Breakout Torque	60,000 ft. lbs	8,295 kg - m	175,722 ft. lbs	24,294 kg - m							
Make-up Torque	50,000 ft. lbs	6,913 kg - m	125,136 ft. lbs	17,301 kg - m							



HAMMER HONEY® ECO



Center Rock's specially formulated Hammer Honey® ECO is a readily biodegradable and environmentally friendly, premium rock drill oil. Hammer Honey® ECO provides an excellent balance of tackifiers, emulsibility, and corrosion protection that makes it uniquely suited for demanding down-the-hole applications. Hammer Honey® ECO's unique

extreme-pressure additives prevent steel-on-steel galling and burning of hammer parts and bits that can lead to catastrophic failure.

OIL/CHEMICAL INJECTION SYSTEMS

The oil injection system is a self contained, air-actuated, positive displacement system. It comes equipped with either a seven 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.



HAMMER HONEY® ROCK DRILL OIL



Center Rock's Hammer Honey® is a specially formulated premium rock drill oil. Hammer Honey® provides a great balance of tackifiers, emulsibility, and corrosion protection that makes it uniquely suited to demanding downthe-hole applications. But that's not all, Hammer Honey's® unique extremepressure additives prevents steel-on-steel galling and burning of hammer parts and

bits that can lead to catastrophic failure. Center Rock stands behind any Center Rock hammer part that fails from a frictional-induced crack when using Hammer Honey®.

JETTED BACKHEAD

Center Rock's jetted backhead is one of the simplest and most reliable on the market. Incorporated into the existing check valve system of CRI's CR80, CR88, and CR120 hammers, the jetted backhead does not require additional check valves or over-thehammer subs that complicate your

down-hole assembly. When you need extra air to keep your holes clean, the jetted backhead will maintain hammer power while giving you the performance and flushing requirements and reliability to complete your project.

HYDRO CYCLONE

The Center Rock Hydrocyclone is a water separator that allows drilling contractors to inject as much water needed for a clean hole but without the downside of rising pressure and lost productivity. The Hydrocyclone sub separates and expels water from compressed air before it even enters the hammer.



CAN ROD & HAMMER SHROUD



Center Rock's can rods and hammer shrouds are used to fill the annular space between the hole being drilled and the drill tools to increase up-hole velocity for hole cleaning instead of adding additional air compressors.

THREAD LOCKING SYSTEM

Center Rock's thread locking system integrates a non-ferrous shear ring into the backhead and chuck connections, thus ensuring that the threads do not loosen during normal drilling operations. Available on our

CR-88 hammer models, the locking ring is sheared off during hammer servicing with a breakout torque of roughly 30,000 ft-lb. This safety feature ensures that the threads loosen only when you want them to, not when the tool is downhole.

PRESSURE CONTROL CHECK VALVE (PCCV)

The PCCV allows the hammer setup to be optimized for dry drilling, while also allowing air bypass to be opened as downhole pressure builds. The PCCV opening pressure and opening flow can be adjusted for desired conditions. Therefore, with the PCCV, there is no loss in performance due to bypassing air in dry conditions and no risk of excessive standpipe pressure if water is encountered. The PCCV valve gives you the ability to truly maximize your productivity from spud to TD.



MOBILE WORK SHOP



Custom designed 20' and 40' mobile workshops as an on-site solution for servicing and maintaining your DTH hammers and bits. The mobile workshop offers a comfortable, climate controlled environment with your safety in mind featuring an explosion proof exhaust fan, an overhead bridge crane for safe lifting, and ergonomic work stations.

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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