

CR HAMMERS

HAMMERS FOR ALL DRILLING APPLICATIONS



Durable, Reliable and Productive

Center Rock's CR line of down-the-hole drills are reliable drilling workhorses that stand up to the most demanding conditions you can find. 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 bit retainer systems for deep-hole drilling applications.

Center Rock Inc.

Our technology optimizes your impact.

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**Drill Faster
Run Harder
Work Smarter**

MODEL	CR60 - STD	CR85 - STD	CR60W - STD	CR65 - STD	CR80-STD	CR88 - STD	CR100 - STD	CR120 - STD
CPN	91000343	91000726	91000440	91000389	91000301	91000468	91000265	91000492
DESCRIPTION	CR50 w/3-1/2 API Reg Pin Connection	CR55 w/3-1/2 API Reg Pin Connection & Cutting backhead	CR60W w/3-1/2 API Reg Pin Connection	CR65 w/3-1/2 API Pin Connection & Cutting Backhead	CR80 w/4-1/2 API Reg Pin Connection	CR88 w/4-1/2 API Reg Pin Connection	CR100 w/6-5/8 API Reg Pin Connection	CR120 w/6-5/8 API Reg Pin Connection
APPLICATION SUITABILITY:								
Geotechnical/Foundations	✓		✓	✓	✓	✓	✓	✓
Waterwell/Geothermal	✓	✓	✓		✓	✓	✓	✓
Quarry/Mining	✓	✓						
Mineral Exploration	✓							
Oil/Gas								
AVAILABLE OPTIONS:								
Bit Retainer System					✓	✓	✓	✓
Jetted Backhead			✓		✓	✓	✓	✓
GENERAL SPECIFICATIONS:								
Connection	Imperial 3-1/2 API Reg Pin	Imperial 3-1/2 API Reg Pin	Imperial 3-1/2 API Reg Pin	Imperial 3-1/2 API Reg Pin	Imperial 4-1/2 API Reg Pin	Imperial 4-1/2 API Reg Pin	Imperial 6-5/8 API Reg Pin	Imperial 6-5/8 API Reg Pin
	Metric QL50	Metric QL50	Metric QL60	Metric QL60	Metric QL80	Metric CR88	Metric N100	Metric QL120
Bit Shank	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Reversible Casing	4.75	5.00	5.44	5.88	7.13	7.75	9.00	11.20
Outside Diameter (in/mm)	120.7	127.0	138.2	149.4	181.1	196.9	228.6	284.5
Length w/o Bit Shoulder to Shoulder (in/mm)	42.40	40.10	42.70	41.80	57.20	58.90	59.90	72.90
Length w/Bit Extended (in/mm)	46.60	44.60	47.80	46.00	63.70	66.80	67.10	83.60
Length w/Bit Retracted (in/mm)	45.40	43.30	46.40	44.90	61.90	64.90	67.10	81.40
Weight w/o Bit (pds/kgs)	145	153	186	219	443	518	740	1358
Backhead Across Flats (in.)	2 x 3-1/2 AF	2 x 3-1/2 AF	2-1/2 x 4 AF	2-1/4 x 3-1/2 AF	2-1/2 x 5-7/8 AF	2 x 6-7/16 AF	2-1/2 x 7-1/2 AF	2-1/2 x 9-1/4 AF
Minimum Bit Size (in/mm)	5.25	5.75	6.00	6.50	7.88	8.75	9.63	12.25
Maximum Bit Size (in/mm)	6.00	6.00	6.75	6.75	10.00	11.00	12.25	22.00
Bore (in/mm)	3.890	4.125	4.500	4.750	5.875	6.410	7.540	9.250
Piston Weight (pds/kgs)	31.90	31.50	40.00	45.00	107.20	117.00	178.00	304.00
Stroke (in/mm)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Maximum Pressure Differential (psig & bar)	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00
Maximum Choke Diameter	0.50	0.50	0.38	0.00	0.00	0.00	0.00	0.88
Make-up Torque (ft-lb / N-m)	5000	5000	6000	6000	8000	9000	10000	12000
AIR CONSUMPTION:								
100 psi/6.9 bar (scfm / m ³ /min)	202	155	360	235	400	548	581	866
100 psi (bpm)	1116	1116	1122	1350	968	968	950	585
150 psi/10.3 bar (scfm / m ³ /min)	310	257	422	383	590	821	1000	1292
150 psi (bpm)	1266	1266	1301	1456	1050	1050	1050	695
200 psi/13.8 bar (scfm / m ³ /min)	422	374	511	543	780	1093	1400	1715
200 (bpm)	1401	1401	1453	1561	1132	1132	1150	805
250 psi/17.2 bar (scfm / m ³ /min)	538	508	627	713	970	1366	1781	2135
250 (bpm)	1521	1521	1576	1667	1215	1215	1250	915
300 psi/20.7 bar (scfm / m ³ /min)	658	657	771	894	1160	1639	2143	2551
300 (bpm)	1626	1626	1671	1773	1297	1297	1350	1025
350 psi/24.1 bar (scfm / m ³ /min)	783	822	941	1086	1350	1912	2486	2964
350 (bpm)	1716	1716	1738	1878	1379	1379	1450	1135