

CENTER ROCK FORCE®

HIGH PERFORMANCE RF HAMMER SERIES



Center Rock Inc's High Performance Down Hole Hammers and Bits

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 RF hammers feature a high efficiency valved air cycle to optimize performance. For deep hole applications, accessories such as bit retrieval systems and jetted backheads are available. The combination of high performance and longevity make this the perfect hammer for any job.

CENTER ROCK
We make rock disappear!

Phone: 814.267.7100

CENTERROCK.COM



**Drill faster.
Run harder.
Work smarter.**

breakthrough innovation and technology • superior products and services • outstanding technical support • genuine drilling expertise

MODEL	RF35-STD		RF40-STD		RF50-STD		RF55-STD		RF60-STD		RF65-STD		RF65-HD		RF80-STD		RF88-STD		RF100-STD		RF120-STD		RF200-STD		RF200S-STD																																																																																																																																																																																										
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric																																																																																																																																																																																							
DESCRIPTION	RF35 with 2-3/8 API reg pin connection	RF40 with 2-3/8 API reg pin connection	RF50 with 3-1/2 API reg pin connection	RF55 w/ 3-1/2 API pin connection & cutting backhead	Thick wall casing	RF60 with 3-1/2 API reg pin connection	RF65 with 3-1/2 API reg pin connection & cutting backhead	RF65-HD with 500 PSI high frequency hammer	RF80 with 4-1/2 API reg pin connection	RF88 with 4-1/2 API reg pin connection	RF100 with 6-5/8 API reg pin connection	RF120 with 6-5/8 API reg pin connection	RF200 with 8-5/8 API reg pin connection and jetted backhead	RF200S with 8-5/8 API reg pin connection and jetted backhead																																																																																																																																																																																																					
APPLICATION SUITABILITY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																																																																																																																																																							
Geotechnical/Foundation																																																																																																																																																																																																																			
Waterwell/Geothermal																																																																																																																																																																																																																			
Quarry/Mining																																																																																																																																																																																																																			
Mineral Exploration																																																																																																																																																																																																																			
Oil/Gas																																																																																																																																																																																																																			
AVAILABLE OPTIONS																																																																																																																																																																																																																			
Bit retainer system	✓																																																																																																																																																																																																																		
Jetted backhead																																																																																																																																																																																																																			
Deep-hole design																																																																																																																																																																																																																			
Directional	✓																																																																																																																																																																																																																		
GENERAL SPECIFICATIONS	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric																																																																																																																																																																																					
Connection	2-3/8 reg pin 21 cubic pin	2-7/8 reg pin 21 cubic pin	3-1/2 reg pin	3-1/2 reg pin	3-1/2 API reg pin 350 BECO pin	3-1/2 API reg pin 350 BECO pin	3-1/2 API reg pin 350 BECO pin	3-1/2 API reg pin 350 BECO pin	4-1/2 API reg pin	4-1/2 API reg pin	6-5/8 API reg pin	6-5/8 API Reg Pin	8-5/8 reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex	8-5/8 API reg pin 8" CR1 Hex																																																																																																																																																																																					
Bit Shank	DHD 35	CR40/CR40HD & TD40	QL507/QL50 HD	QL50	QL60/QL60 HD	QL60	QL60	QL60	CR88	QL80	QL80	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL120	QL200	QL200																																																																																																																																																																																										
Outside diameter (in/mm)	81.0 3,19	101.6 3,99	127.0 5,00	130.3 5,13	138.2 5,44	146.1 5,75	157.5 6,20	165.7 6,52	180.8 7,12	196.9 7,75	228.6 9,00	284.5 11,20	339.2 13,32	393.9 15,49	448.6 17,66	503.3 19,81	558.0 22,00	612.7 24,15	667.4 26,27	722.1 28,40	776.8 30,55	831.5 32,71	886.2 34,87	940.9 37,03	995.6 39,19	1050.3 41,30	1105.0 43,49	1159.7 45,65	1214.4 47,78	1269.1 50,00	1323.8 52,12																																																																																																																																																																																				
Length w/o bit shoulder (in/mm)	762.8 30,03	915.4 36,04	1016.7 40,03	1016.7 40,03	1077.0 42,40	1157.5 45,56	1238.0 49,00	1318.5 52,10	1409.0 55,50	1500.0 59,00	1690.0 66,50	1900.0 74,80	2110.0 83,50	2320.0 91,70	2530.0 99,60	2740.0 107,50	2950.0 115,40	3160.0 123,20	3370.0 131,10	3580.0 138,90	3790.0 146,70	4000.0 154,90	4210.0 163,80	4420.0 171,70	4630.0 179,50	4840.0 187,30	5050.0 195,10	5260.0 202,90	5470.0 210,70	5680.0 218,50	5890.0 226,30	6100.0 234,10																																																																																																																																																																																			
Length with bit extended (in/mm)	861.8 33,93	1025.9 40,39	1132.0 44,57	1132.0 44,57	1212.9 47,75	1293.4 50,92	1373.9 54,09	1454.4 57,26	1534.9 60,43	1615.4 63,64	1795.0 70,31	2010.0 79,10	2225.0 87,80	2440.0 96,40	2655.0 104,90	2870.0 113,40	3085.0 121,90	3300.0 129,40	3515.0 136,90	3730.0 145,30	3945.0 153,30	4160.0 161,70	4375.0 169,10	4590.0 177,00	4805.0 184,90	5020.0 192,80	5235.0 200,60	5450.0 207,50	5665.0 214,30	5880.0 220,10	6095.0 226,00	6310.0 231,70	6525.0 237,50																																																																																																																																																																																		
Length with bit retracted (in/mm)	828.5 32,62	994.9 39,17	1099.8 43,30	1099.8 43,30	1179.3 46,43	1259.8 49,52	1339.3 52,61	1419.8 55,70	1500.3 58,79	1580.8 61,98	1760.0 69,29	1975.0 77,70	2190.0 85,40	2405.0 93,50	2620.0 101,60	2835.0 109,70	3050.0 117,80	3265.0 125,90	3480.0 134,10	3695.0 142,30	3910.0 148,70	4125.0 155,10	4340.0 161,80	4555.0 168,70	4770.0 176,20	4985.0 182,90	5200.0 190,00	5415.0 196,70	5630.0 200,40	5845.0 207,30	6060.0 213,80	6275.0 220,10	6490.0 224,70	6705.0 232,10	6920.0 238,10																																																																																																																																																																																
Weight w/o bit (pds/kg)	21.7 9.8	30.3 13.8	40.9 18.5	40.9 18.5	44.3 20.0	47.7 21.7	51.1 23.2	54.5 24.8	60.0 27.2	66.0 30.0	75.0 34.0	84.0 38.0	93.0 42.0	102.0 46.0	111.0 50.0	120.0 54.0	130.0 59.0	140.0 64.0	150.0 68.0	160.0 72.0	170.0 77.0	180.0 81.0	190.0 86.0	200.0 90.0	210.0 94.0	220.0 99.0	230.0 103.0	240.0 107.0	250.0 111.0	260.0 115.0	270.0 119.0	280.0 123.0	290.0 127.0	300.0 131.0																																																																																																																																																																																	
Weight w/o bit (lbs/kg)	21.7 9.8	30.3 13.8	40.9 18.5	40.9 18.5	44.3 20.0	47.7 21.7	51.1 23.2	54.5 24.8	60.0 27.2	66.0 30.0	75.0 34.0	84.0 38.0	93.0 42.0	102.0 46.0	111.0 50.0	120.0 54.0	130.0 59.0	140.0 64.0	150.0 68.0	160.0 72.0	170.0 77.0	180.0 81.0	190.0 86.0	200.0 90.0	210.0 94.0	220.0 99.0	230.0 103.0	240.0 107.0	250.0 111.0	260.0 115.0	270.0 119.0	280.0 123.0	290.0 127.0	300.0 131.0																																																																																																																																																																																	
Backhead across flats (in)	1.25 x 2.5 AF	1.5 x 3 AF	2 x 3-1/2 AF	2 x 3-1/2 AF	2 x 4 AF	2 x 4 AF	2 x 4 AF	2 x 4 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	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF	2-1/2 x 9-1/4 AF																																																																																																																																																																																	
Minimum bit size (in/mm)	3.50 4.25	4.50 5.00	114.3 127.0	146.1 152.4	157.5 162.7	165.7 171.5	174.0 180.8	182.5 189.3	191.0 197.8	200.0 206.8	222.3 239.2	279.4 311.2	336.5 368.3	393.6 425.4	450.7 482.5	507.8 539.6	564.9 596.7	622.0 653.8	679.1 710.9	736.2 768.0	793.3 825.1	850.4 882.2	907.5 939.3	964.6 996.4	1021.7 1053.5	1078.8 1110.6	1135.9 1167.7	1193.0 1224.8	1250.1 1281.9	1307.2 1339.0	1364.3 1396.1	1421.4 1453.2	1478.5 1510.3	1535.6 1567.4	1592.7 1624.5	1649.8 1681.6	1706.9 1738.7	1764.0 1795.8	1821.1 1852.9	1878.2 1910.0	1935.3 1967.1	1992.4 2024.2	2049.5 2081.3	2106.6 2138.4	2163.7 2195.5	2220.8 2252.6	2277.9 2309.7	2335.0 2366.8	2392.1 2423.9	2449.2 2481.0	2506.3 2538.1	2563.4 2595.2	2620.5 2652.3	2677.6 2709.4	2734.7 2766.5	2791.8 2823.6	2848.9 2880.7	2906.0 2937.8	2963.1 2994.9	3020.2 3052.0	3077.3 3109.1	3134.4 3166.2	3191.5 3223.3	3248.6 3280.4	3305.7 3337.5	3362.8 3394.6	3419.9 3451.7	3477.0 3508.8	3534.1 3565.9	3591.2 3623.0	3648.3 3680.1	3705.4 3737.2	3762.5 3794.3	3819.6 3851.4	3876.7 3908.5	3933.8 3965.3	3990.9 4022.7	4048.0 4080.5	4105.1 4137.6	4162.2 4194.7	4219.3 4251.9	4276.4 4309.0	4333.5 4366.1	4390.6 4423.2	4447.7 4480.3	4504.8 4537.4	4561.9 4594.5	4619.0 4651.6	4676.1 4708.7	4733.2 4765.8	4790.3 4822.9	4847.4 4880.0	4904.5 4937.1	4961.6 4994.2	5018.7 5051.3	5075.8 5108.4	5132.9 5165.5	5190.0 5222.6	5247.1 5279.7	5304.2 5336.8	5361.3 5393.9	5418.4 5451.0	5475.5 5508.1	5532.6 5565.2	5589.7 5622.3	5646.8 5679.4	5703.9 5736.5	5761.0 5793.6	5818.1 5850.7	5875.2 5907.8	5932.3 5964.9	5989.4 6022.0	6046.5 6079.1	6103.6 6136.2	6160.7 6193.3	6217.8 6250.4	6274.9 6307.5	6332.0 6364.6	6389.1 6421.7	6446.2 6478.8	6503.3 6535.9	6560.4 6593.0	6617.5 6650.1	6674.6 6707.2	6731.7 6764.3	6788.8 6821.4	6845.9 6878.0	6903.0 6935.6	6960.1 6992.7	7017.2 7049.8	7074.3 7106.9	7131.4 7164.0	7188.5 7221.1	7245.6 7278.2	7302.7 7335.3	7359.8 7392.4	7416.9 7449.0	7474.0 7506.6	7531.1 7563.7	7588.2 7620.8	7645.3 7677.9	7702.4 7735.0	7759.5 7792.1	7816.6 7849.2	7873.7 7906.3	7930.8 7963.4	7987.9 8020.5	8045.0 8077.6	8102.1 8134.7	8159.2 8191.8	8216.3 8248.9	8273.4 8306.0	8330.5 8363.1	8387.6 8420.2	8444.7 8477.3	8501.8 8534.4	8558.9 8591.5	8616.0 8648.6	8673.1 8705.7	8730.2 8762.8	8787.3 8820.9	8844.4 8877.0	8901.5 8934.1	8958.6 8991.2	9015.7 9048.3	9072.8 9105.4	9129.9 9162.5	9187.0 9219.6	9244.1 9276.7	9301.2 9333.8	9358.3 9390.9	9415.4 9448.0	9472.5 9505.1	9529.6 9562.2	9586.7 9619.3	9643.8 9676.4	9700.9 9733.5	9758.0 9790.6	9815.1 9847.7	9872.2 9904.8	9929.3 9961.9	9986.4 10019.0	10043.5 10076.1	10100.6 10133.2	10157.7 10190.3	10214.8 10247.4	10271.9 10304.5	10329.0 10361.6	10386.1 10418.7	10443.2 10475.8	10500.3 10532.9	10557.4 10590.0	10614.5 10647.1	10671.6 10704.2	10728.7 10761.3	10785.8 10818.4	10842.9 10875.0	10899.0 10931.6	10956.1 10988.7	11013.2 11045.8	11070.3 11102.9	11127.4 11160.0	11184.5 11217.1	11241.6 11274.2	11298.7 11331.3	11355.8 11387.9	11412.9 11445.5	11470.0 11502.6	11527.1 11559.7	11584.2 11616.8	11641.3