

# CR HAMMERS

FOR ALL DRILLING APPLICATIONS



## Durable, Reliable and Productive

Center Rock's CR line of down-the-hole hammers and bits are reliable drilling workhorses that stand up to the most demanding conditions. A valveless air cycle provides consistent drilling performance and reliability year-after-year. Models are available with integrated jetted backheads as well as bit retainer systems for deep-hole drilling applications. These quality tools are economically priced with the general contractor in mind.

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| MODEL   | CR80-STD                            |        | CR88 - STD                          |        | CR100 - STD                          |        | CR120 - STD                          |        | CR260 - STD                |        | CR360                           |        |
|---|-------------------------------------|--------|-------------------------------------|--------|--------------------------------------|--------|--------------------------------------|--------|----------------------------|--------|---------------------------------|--------|
| CPN   | 91000301                            |        | 91000468                            |        | 91000265                             |        | 91000492                             |        | 91002916                   |        | 91004267                        |        |
| DESCRIPTION                                   | 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 |        | CR260 w/10" Hex Connection |        | RF360 w/15" Male Hex Connection |        |
| <b>APPLICATION SUITABILITY:</b>               |                                     |        |                                     |        |                                      |        |                                      |        |                            |        |                                 |        |
| Geotechnical/Foundations                      | ✓                                   |        | ✓                                   |        | ✓                                    |        | ✓                                    |        | ✓                          |        |                                 |        |
| Waterwell/Geothermal                          | ✓                                   |        | ✓                                   |        | ✓                                    |        | ✓                                    |        | ✓                          |        |                                 |        |
| Quarry/Mining                                 | ✓                                   |        |                                     |        |                                      |        |                                      |        |                            |        |                                 |        |
| Mineral Exploration                           |                                     |        |                                     |        |                                      |        |                                      |        |                            |        |                                 | ✓      |
| Oil/Gas                                       | ✓                                   |        | ✓                                   |        | ✓                                    |        | ✓                                    |        | ✓                          |        |                                 | ✓      |
| <b>AVAILABLE OPTIONS:</b>                     |                                     |        |                                     |        |                                      |        |                                      |        |                            |        |                                 |        |
| Bit Retainer System                           | ✓                                   |        | ✓                                   |        | ✓                                    |        | ✓                                    |        |                            |        |                                 |        |
| Jetted Backhead                               | ✓                                   |        | ✓                                   |        | ✓                                    |        | ✓                                    |        | ✓                          |        |                                 |        |
| <b>GENERAL SPECIFICATIONS:</b>                |                                     |        |                                     |        |                                      |        |                                      |        |                            |        |                                 |        |
|   | Imperial                            | Metric | Imperial                            | Metric | Imperial                             | Metric | Imperial                             | Metric | Imperial                   | Metric | Imperial                        | Metric |
| Connection                                    | 4-1/2 API Reg Pin                   |        | 4-1/2 API Reg Pin                   |        | 6-5/8 API Reg Pin                    |        | 6-5/8 API Reg Pin                    |        | 10" (254mm) Male Hex       |        | 15" (381mm) Male Hex            |        |
| Bit Shank                                     | QL80                                |        | CR88                                |        | N100                                 |        | QL120                                |        | CR260                      |        | CR360                           |        |
| Reversible Casing                             | Yes                                 |        | Yes                                 |        | No                                   |        | No                                   |        | Yes                        |        | Yes                             |        |
| Outside Diameter (in/mm)                      | 7.13                                | 181.1  | 7.75                                | 196.9  | 9.00                                 | 228.6  | 11.20                                | 284.5  | 22.00                      | 559.0  | 34.0                            | 864    |
| Length w/o Bit Shoulder to Shoulder (in/mm)   | 41.30                               | 1049.0 | 58.94                               | 1497.1 | 59.87                                | 1520.7 | 72.91                                | 1851.9 | 74.31                      | 1887.5 | 95.85                           | 2433   |
| Length w/Bit Extended (in/mm)                 | 46.73                               | 1186.9 | 65.35                               | 1659.9 | 67.09                                | 1704.1 | 81.7                                 | 2075.2 | 85.96                      | 2183.4 | 113.2                           | 2875   |
| Length w/Bit Retracted (in/mm)                | 45.36                               | 1152.1 | 63.44                               | 1611.4 | 65.18                                | 1655.6 | 79.41                                | 2017.0 | 83.71                      | 2126.2 | 110.8                           | 2814   |
| Weight w/o Bit (pds/kgs)                      | 216.60                              | 98.2   | 520.5                               | 236.1  | 751.99                               | 341.1  | 1377.0                               | 624.6  | 6126.0                     | 2778.7 | 17750                           | 8068   |
| Backhead Across Flats (in.)                   | 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 21 AF              |        | 2-1/2 x 32 AF                   |        |
| Minimum Bit Size (in/mm)                      | 7.88                                | 200.2  | 8.75                                | 222.3  | 9.63                                 | 244.6  | 12.25                                | 311.2  | 26.00                      | 660.0  | 36.0                            | 914    |
| Maximum Bit Size (in/mm)                      | 10.00                               | 254.0  | 11.00                               | 279.4  | 12.25                                | 311.2  | 22.00                                | 558.8  | 38.00                      | 965.0  | 54.0                            | 1372   |
| Bore (in/mm)                                  | 5.875                               | 149.23 | 6.410                               | 162.81 | 7.540                                | 191.52 | 9.250                                | 234.95 | 17.150                     | 436.0  | 28.0                            | 711    |
| Piston Weight (pds/kgs)                       | 107.20                              | 48.7   | 117.00                              | 53.2   | 178.00                               | 80.9   | 304.00                               | 138.2  | 1422.00                    | 646.0  | 5165                            | 2348   |
| Stroke (in/mm)                                | 4.00                                | 101.6  | 4.00                                | 101.6  | 4.00                                 | 101.6  | 4.00                                 | 101.6  | 5.00                       | 127.0  | 5.0                             | 127    |
| Maximum Pressure Differential (psig & bar)    | 350.00                              | 24.1   | 350.00                              | 24.1   | 350.00                               | 24.1   | 350.00                               | 24.1   | 250.00                     | 17.2   | 250.0                           | 17     |
| Maximum Choke Diameter                        | 0.00                                | 0.00   | 0.00                                | 0.00   | 0.00                                 | 0.00   | 0.88                                 | 22.23  | 1.22                       | 31.00  | 2.0                             | 51     |
| Make-up Torque (ft-lb / N-m)                  | 8000                                | 10832  | 9000                                | 12186  | 10000                                | 13540  | 12000                                | 16248  | 30000                      | 40620  | 50000                           | 67700  |
| <b>AIR CONSUMPTION:</b>                       |                                     |        |                                     |        |                                      |        |                                      |        |                            |        |                                 |        |
| 100 psi/6,9 bar (scfm / m <sup>3</sup> /min)  | 400                                 | 11.3   | 548                                 | 15.5   | 581                                  | 16.4   | 866                                  | 24.5   | 2356                       | 66.6   | 5.066                           | 143.1  |
| 100 psi (bpm)                                 | 968                                 | 968    | 968                                 | 968    | 950                                  | 950    | 585                                  | 585    | 676                        | 676    | 568                             | 568    |
| 150 psi/10,3 bar (scfm / m <sup>3</sup> /min) | 590                                 | 16.7   | 821                                 | 23.2   | 1000                                 | 28.2   | 1292                                 | 36.5   | 3625                       | 102    | 7795                            | 220    |
| 150 psi (bpm)                                 | 1050                                | 1050   | 1050                                | 1050   | 1050                                 | 1050   | 695                                  | 695    | 838                        | 838    | 704                             | 704    |
| 200 psi/13,8 bar (scfm / m <sup>3</sup> /min) | 780                                 | 22.0   | 1093                                | 30.9   | 1400                                 | 39.5   | 1715                                 | 48.5   | 5043                       | 142    | 10844                           | 306    |
| 200 (bpm)                                     | 1132                                | 1132   | 1132                                | 1132   | 1150                                 | 1150   | 805                                  | 805    | 991                        | 991    | 833                             | 833    |
| 250 psi/17,2 bar (scfm / m <sup>3</sup> /min) | 970                                 | 27.4   | 1366                                | 38.6   | 1781                                 | 50.3   | 2135                                 | 60.3   | 6611                       | 187    | 14216                           | 402    |
| 250 (bpm)                                     | 1215                                | 1215   | 1215                                | 1215   | 1250                                 | 1250   | 915                                  | 915    | 1135                       | 1135   | 953                             | 953    |
| 300 psi/20,7 bar (scfm / m <sup>3</sup> /min) | 1160                                | 32.8   | 1639                                | 46.3   | 2143                                 | 60.5   | 2551                                 | 72.1   | N/A                        | N/A    | N/A                             | N/A    |
| 300 (bpm)                                     | 1297                                | 1297   | 1297                                | 1297   | 1350                                 | 1350   | 1025                                 | 1025   | N/A                        | N/A    | N/A                             | N/A    |
| 350 psi/24,1 bar (scfm / m <sup>3</sup> /min) | 1350                                | 38.1   | 1912                                | 54.0   | 2486                                 | 70.2   | 2964                                 | 83.7   | N/A                        | N/A    | N/A                             | N/A    |
| 350 (bpm)                                     | 1379                                | 1379   | 1379                                | 1379   | 1450                                 | 1450   | 1135                                 | 1135   | N/A                        | N/A    | N/A                             | N/A    |