

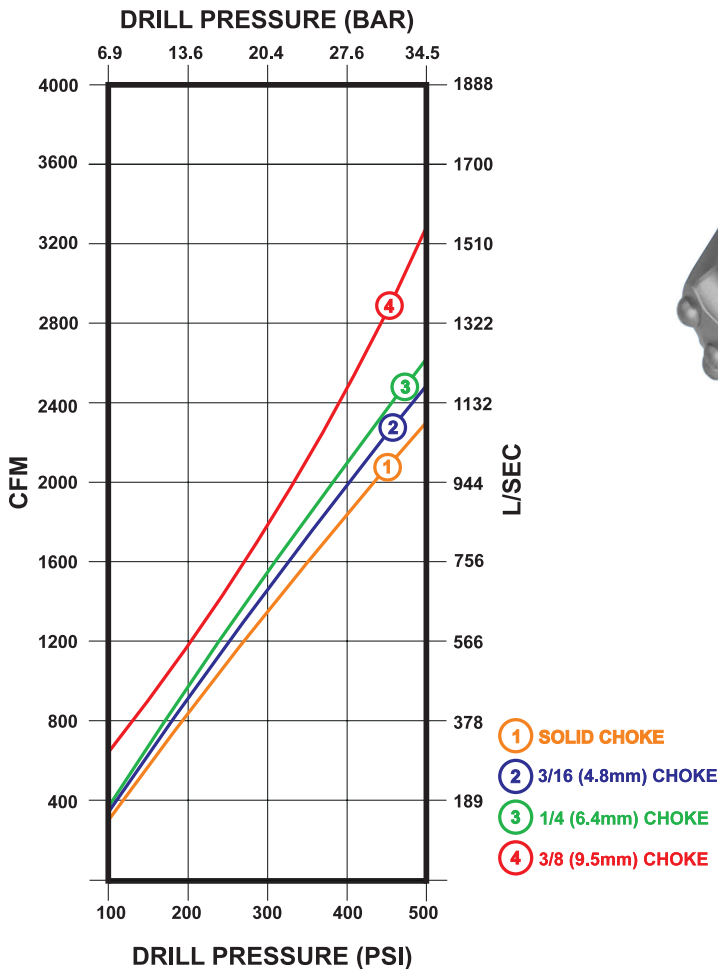


Challenger[®] 80Q Down Hole Hammer

FEATURES

- Valveless down hole hammer design
- Designed to operate at pressures up to 500 PSI (34.5 BAR)
- Hardened, non-reversible, non-ported case for extended life
- Delivers more energy per blow which results in higher penetration rates in hard rock
- For use in any hard rock application

AIR CONSUMPTION



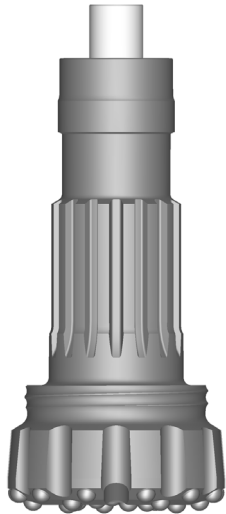
SPECIFICATIONS

| | | |
|-------------------------------|----------|--------|
| Diameter | 7-1/8" | 181 mm |
| Bore | 6" | 152 mm |
| Stroke | 4" | 102 mm |
| Weight (Hammer only) | 442 lbs. | 200 kg |
| Length (Shoulder to Shoulder) | 54-3/4" | 139 cm |
| Length (Shoulder to Bit Face) | 59-1/2" | 151 cm |
| A.P.I. Reg. Threads | 4-1/2 | |

- 1550 blows per minute at 350 PSI (23.8 BAR)
- Drills holes from 7-7/8" to 10" (200 mm - 254 mm) in diameter
- Accepts QL80 bit shank

Down Hole Button Bits

Challenger® 80Q



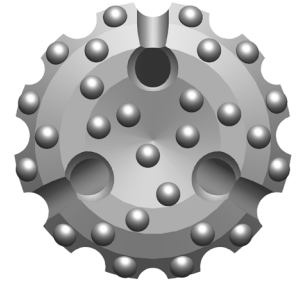
QL80 Bit Shank

DIAMETER
inches (millimeters)

WEIGHT*
pounds (kilograms)

FACES AVAILABLE

| | | | |
|--------|----------|----------|-----------|
| 7-7/8" | (200 mm) | 107 lbs. | (48.5 kg) |
| 8" | (203 mm) | 108 lbs. | (48.9 kg) |
| 8-1/2" | (216 mm) | 114 lbs. | (51.7 kg) |
| 8-5/8" | (219 mm) | 115 lbs. | (52.2 kg) |
| 8-3/4" | (222 mm) | 116 lbs. | (52.6 kg) |
| 8-7/8" | (225 mm) | 117 lbs. | (53.1 kg) |
| 9" | (229 mm) | 122 lbs. | (55.3 kg) |
| 10" | (254 mm) | 127 lbs. | (57.6 kg) |



Concave

* Bit weights are approximate

FEATURES

- 3/4" (19 mm) diameter carbide buttons throughout face
- Chipways designed for faster hole cleaning
- Carbide buttons positioned for better fracture of rock providing faster penetration rates
- Several grades and types of carbide are available
- Other bit sizes and carbide may be available upon request

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