

# HAMMERS AND BITS

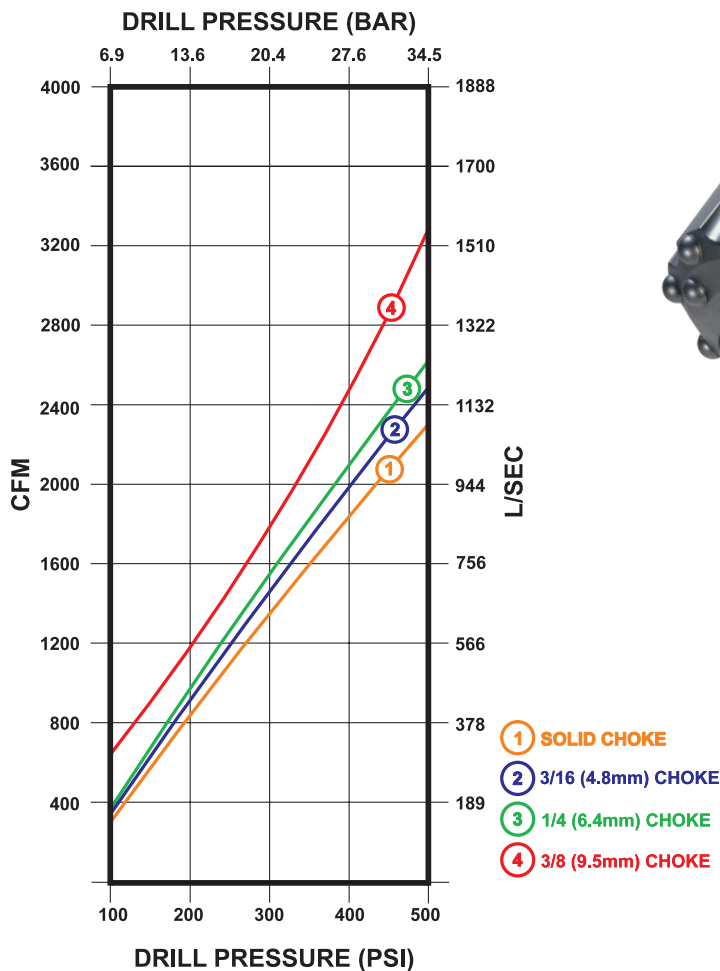
## **Patriot® 85**

### **Down Hole Hammer**

#### FEATURES

- Outdistances competitive hammers in both speed and longevity
- Simplified hammer design with less internal components
- Drills at high frequency to provide less vibration and smooth operation
- More efficient design requires less air which equals fuel savings
- Designed to operate at pressures up to 500 PSI (34.5 BAR)
- Ability to drill efficiently against high heads of water

#### AIR CONSUMPTION



#### SPECIFICATIONS

|                               |          |        |
|-------------------------------|----------|--------|
| Diameter                      | 7-1/8"   | 181 mm |
| Bore                          | 6"       | 152 mm |
| Stroke                        | 3-3/4"   | 95 mm  |
| Weight (Hammer only)          | 419 lbs. | 190 kg |
| Length (Shoulder to Shoulder) | 52"      | 132 cm |
| Length (Shoulder to Bit Face) | 57-1/4"  | 145 cm |
| A.P.I. Reg. Threads           | 4-1/2    |        |

- 1850 blows per minute at 350 PSI (23.8 BAR)
- Drills holes from 7-7/8" to 9" (200 mm - 229 mm) in diameter
- Accepts 380-NTR bit shank



# Down Hole Button Bits

## Patriot® 85



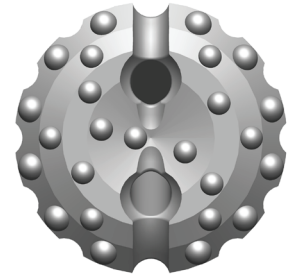
380 NTR  
Bit Shank

**DIAMETER**  
inches (millimeters)

**WEIGHT\***  
pounds (kilograms)

**FACES AVAILABLE**

|        |          |          |         |
|--------|----------|----------|---------|
| 7-7/8" | (200 mm) | 119 lbs. | (54 kg) |
| 8"     | (203 mm) | 121 lbs. | (55 kg) |
| 8-1/2" | (216 mm) | 127 lbs. | (58 kg) |
| 8-5/8" | (219 mm) | 128 lbs. | (58 kg) |
| 8-3/4" | (222 mm) | 130 lbs. | (59 kg) |
| 8-7/8" | (225 mm) | 133 lbs. | (60 kg) |
| 9"     | (229 mm) | 136 lbs. | (60 kg) |



Concave

\* Bit weights are approximate

## FEATURES

- 7/8" (22 mm) and 3/4" (19 mm) polycrystalline diamond carbide (PCD) buttons
- Retained bit head allows for retrieval
- Wear protection utilized as a gage indicator to assure proper hole size
- Recessed carbide inserts to insure longer life in tough formations
- Other bit sizes and carbide may be available upon request

**For More Information Contact:**

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