



HAMMERS AND BITS

Patriot® 85

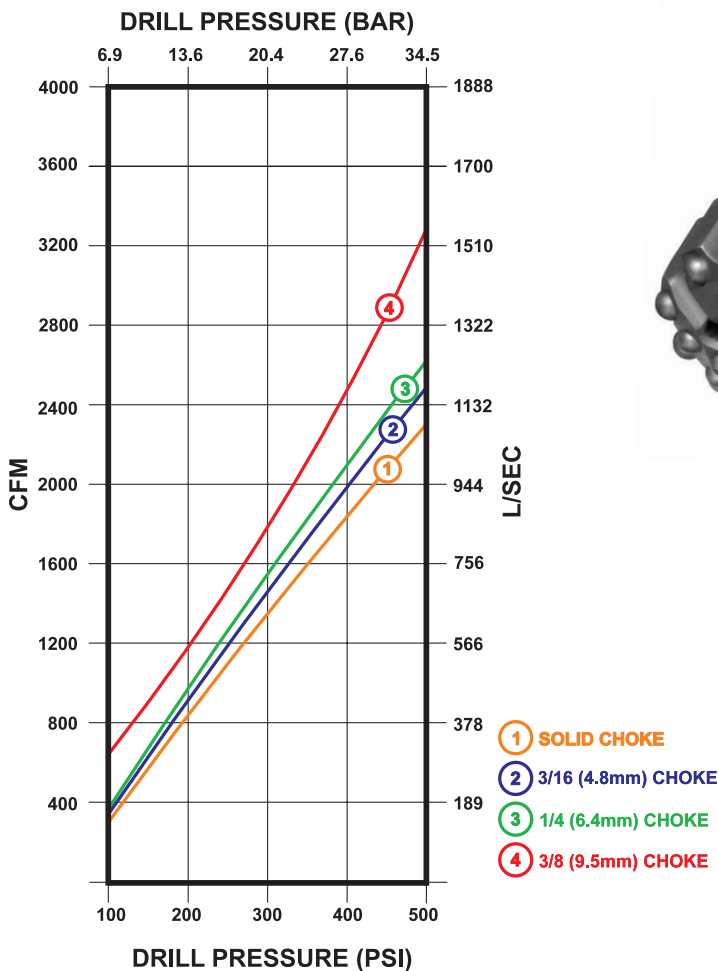
Down Hole Hammer



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 10" (200 mm - 254 mm) in diameter
- Accepts 380-NTR bit shank



Down Hole Button Bits

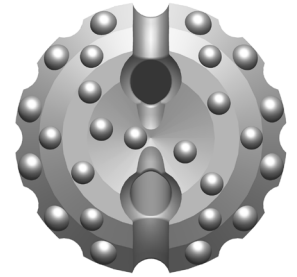
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380 NTR
Bit Shank

DIAMETER		WEIGHT*	
inches (millimeters)		pounds (kilograms)	
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)

FACES AVAILABLE



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

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