

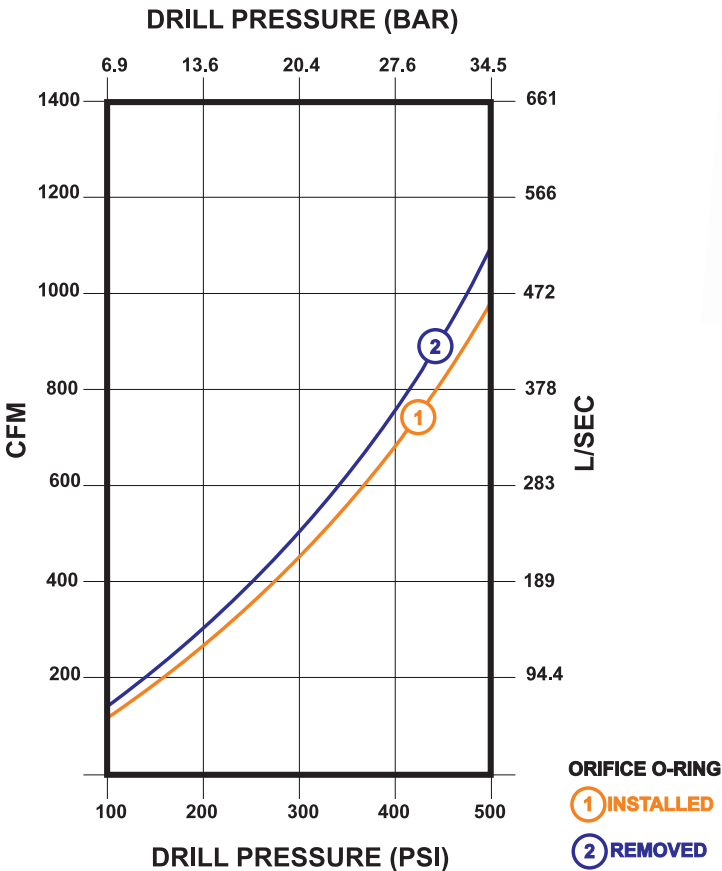


# Patriot<sup>®</sup> RC46 Down Hole Hammer

## FEATURES

- Valveless down hole hammer design
- Designed to operate at pressures to 500 PSI (34.5 BAR)
- Reversible non-ported piston case for extended life
- Ability to drill efficiently against high heads of water
- Superior directional stability in horizontal applications
- Ejecting cuttings through the collection tube eliminates traditional hole cleaning problems
- Environmentally sensitive - no foam required for hole cleaning & lubricants are not free to contaminate the formation
- Collection tube is easily replaced without hammer disassembly
- Metering sleeve facilitates sample flow through collection tube

## AIR CONSUMPTION



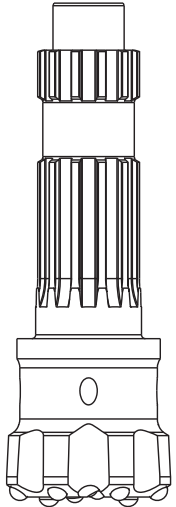
## SPECIFICATIONS

Diameter	4-3/4"	121 mm
Bore	4"	102 mm
Stroke	4"	102 mm
Weight (Hammer only)	136 lbs.	62 kg
Length (Shoulder to Shoulder)	41-13/16"	106 cm
Length (Shoulder to Bit Face)	46-15/16"	119 cm
Reverse Circulation Backhead	4-1/2"	
Thread Connections are Available		

- 1675 blows per minute at 350 PSI (24.1 BAR)
- Drills holes from 5-1/4" to 5-3/4" (133 mm - 146 mm) in diameter
- Accepts PRC46 bit shank

# Down Hole Button Bits

## Patriot® RC46



PRC46 Bit Shank

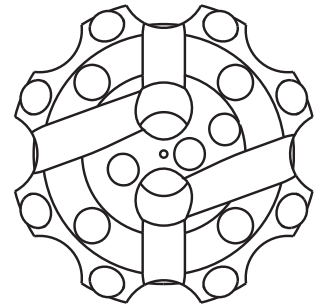
**DIAMETER**  
inches (millimeters)

**WEIGHT\***  
pounds (kilograms)

**FACES AVAILABLE**

5-1/4"	(133 mm)	33 lbs.	(14.9 kg)
5-3/8"	(137 mm)	33 lbs.	(15.0 kg)
5-1/2"	(140 mm)	34 lbs.	(15.2 kg)
5-5/8"	(143 mm)	34 lbs.	(15.4 kg)
5-3/4"	(146 mm)	35 lbs.	(15.8 kg)

Two Hole  
Concave



\* Bit weights are approximate

## FEATURES

- Two Hole Concave Face Design for Advanced Hole Cleaning Capabilities
- 5/8" (16 mm) Carbide Gage Buttons
- Reduced Bit Weight for more Efficient Energy Transfer
- 12 Spline Design for Longer Life and Better Torque Transfer
- Several Grades and Styles of Carbide are Available
- Other Bit Styles May Be Available Upon Request

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