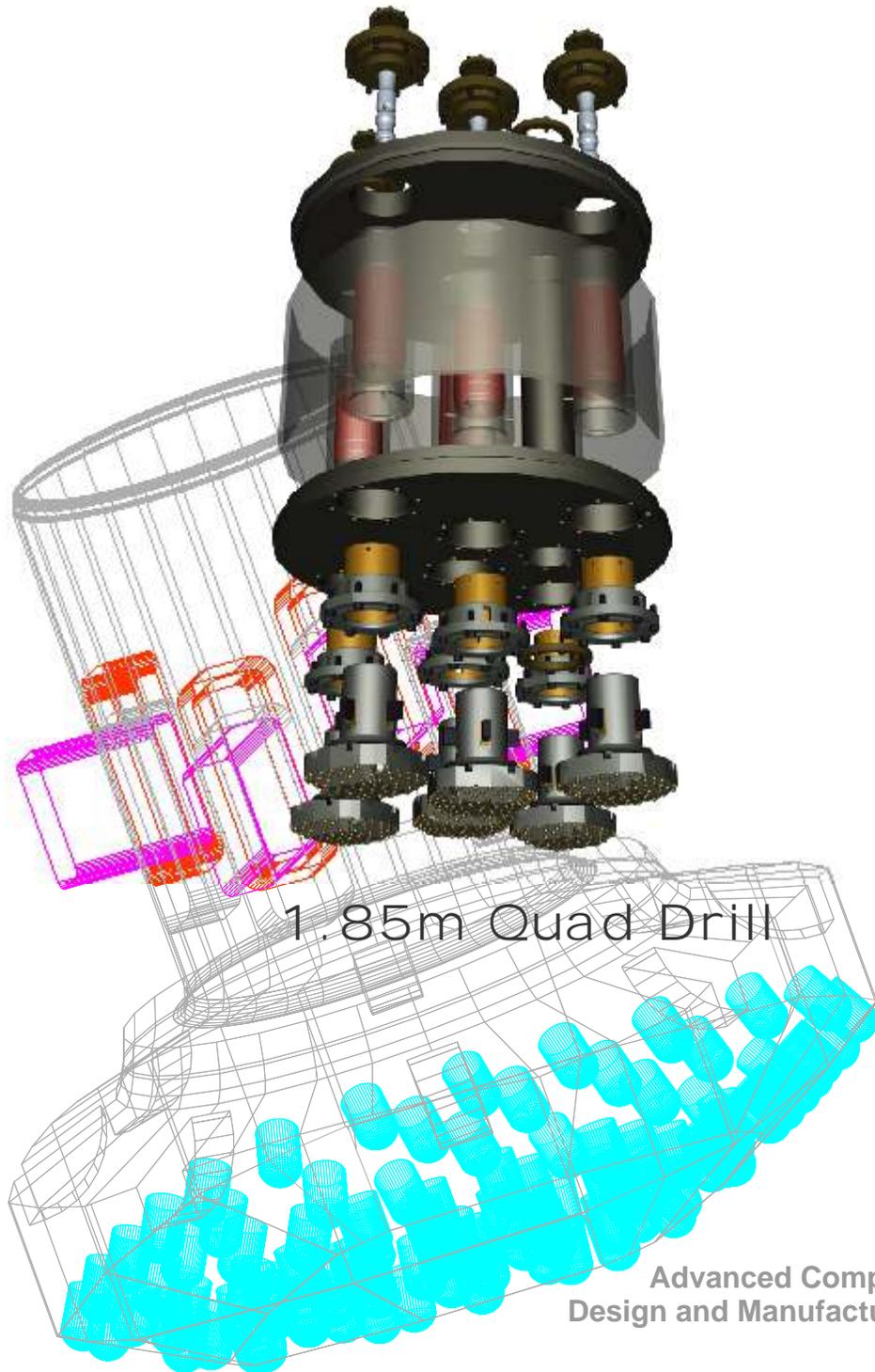


# HOLTE

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## MANUFACTURING

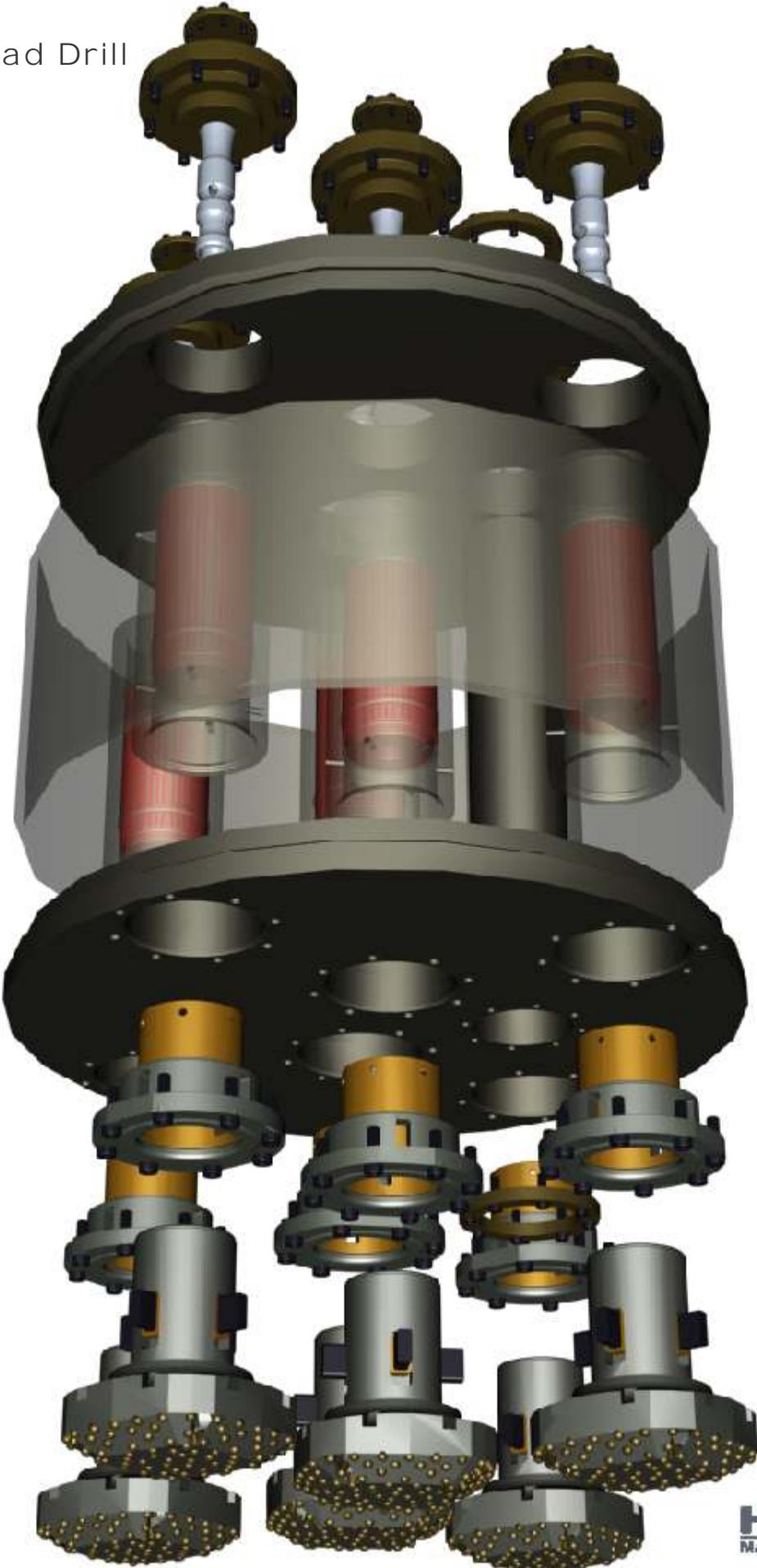
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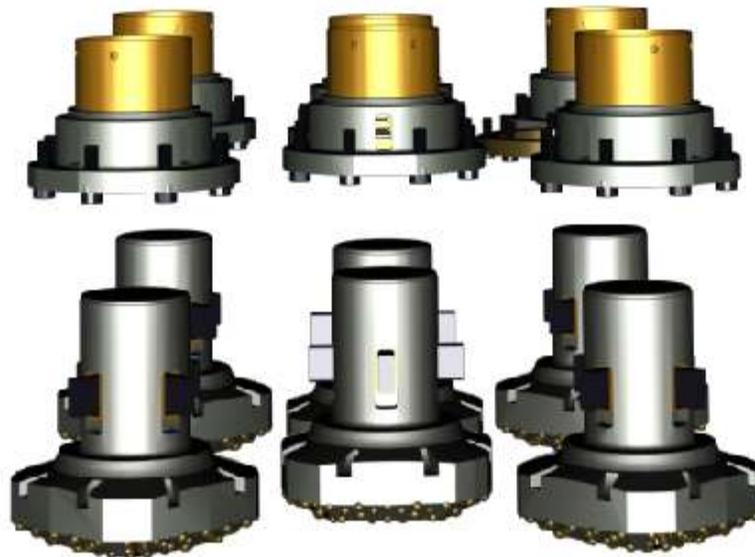
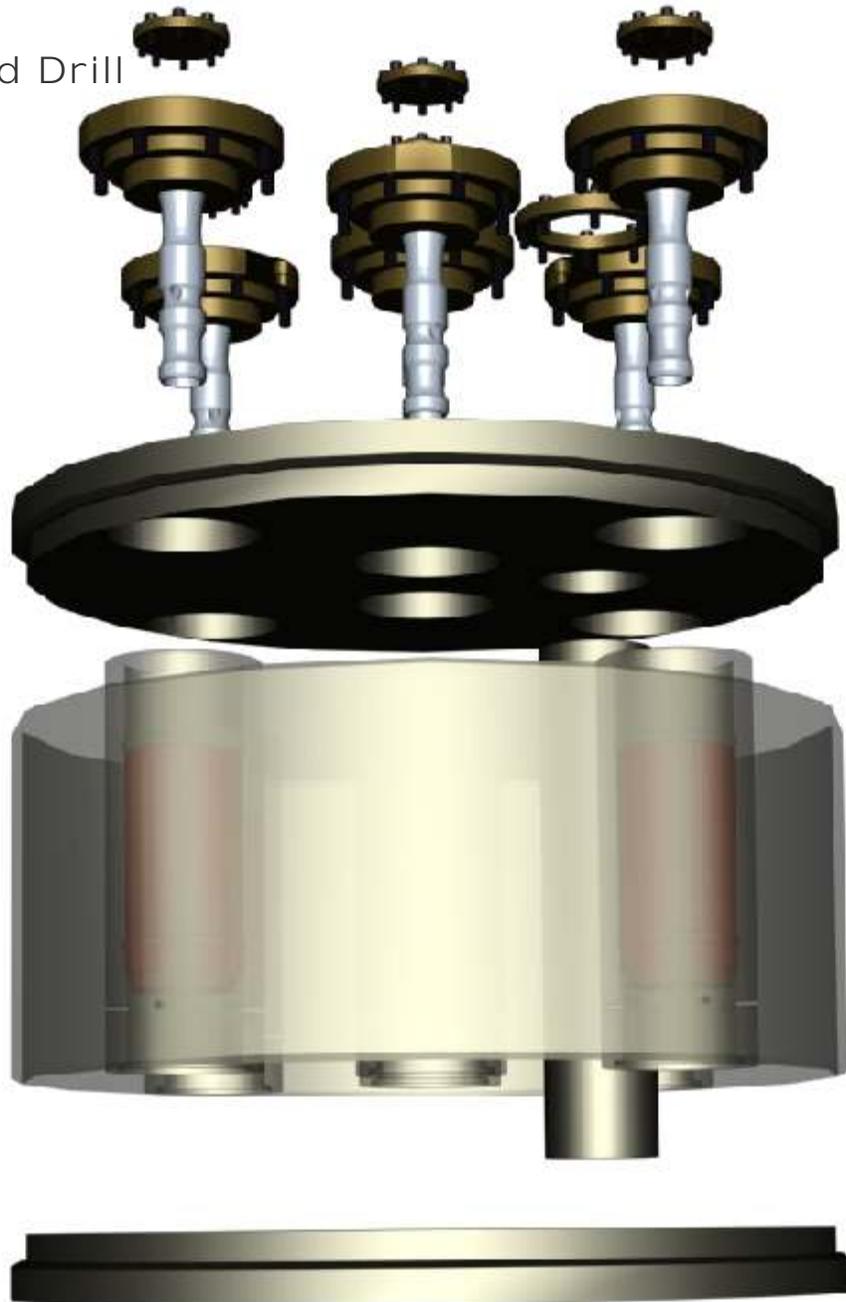
1.85m Quad Drill

Advanced Computer  
Design and Manufacturing

1.85m Quad Drill

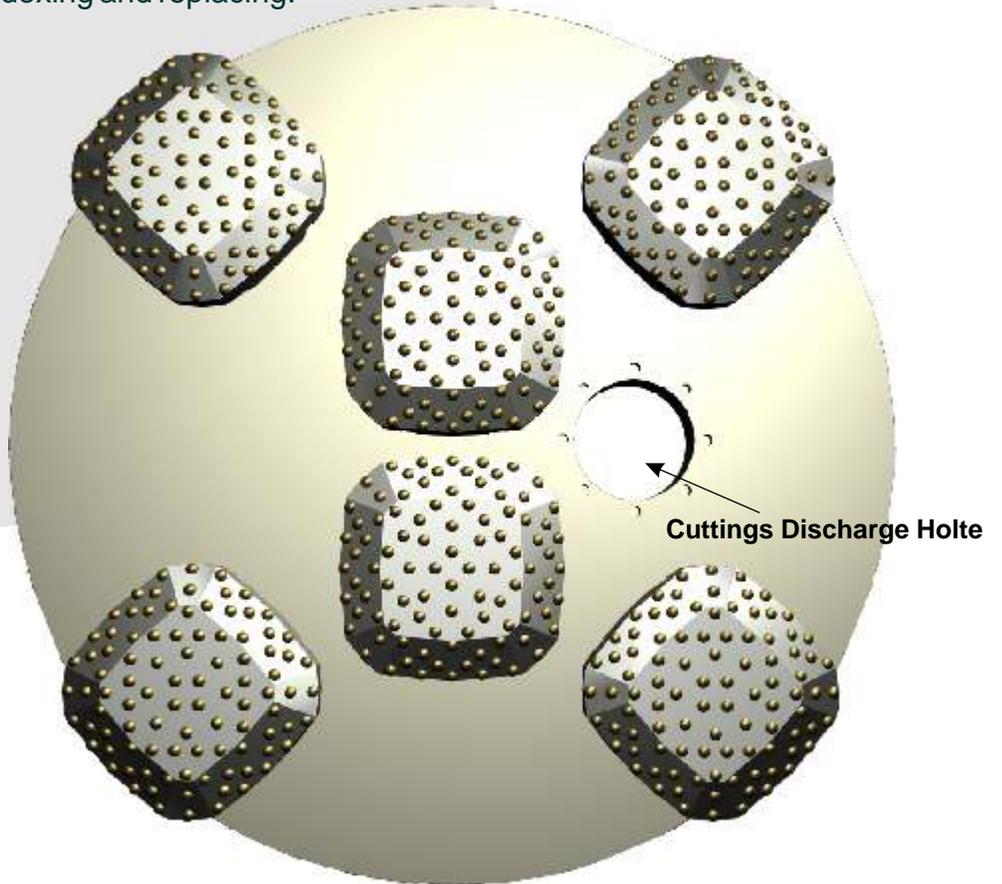
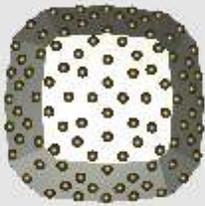


1.85m Quad Drill



## Bottom View of Quad 1.85m

Bit coverage is 60% of area of bore hole. Bits are removable from bottom of Holte Hammers for indexing and replacing.



In comparison to the guide area of conventional hammers, the Holte Quad Bits have exceedingly more guide area.

The precision machined manganese bronze guide sleeves are 9.8" (250mm) diameter and 11" (280mm) tall for a total area of approximately 340 square inches (2194 square mm).

This is designed to hold the bits very stable which will reduce seal wear and possible button breakage.



## Bit Travel and Seals

The Bit travels 1.2in. using the more precision **Holte key drive** preferred in heavier drill tools needing added stability for increased side load.

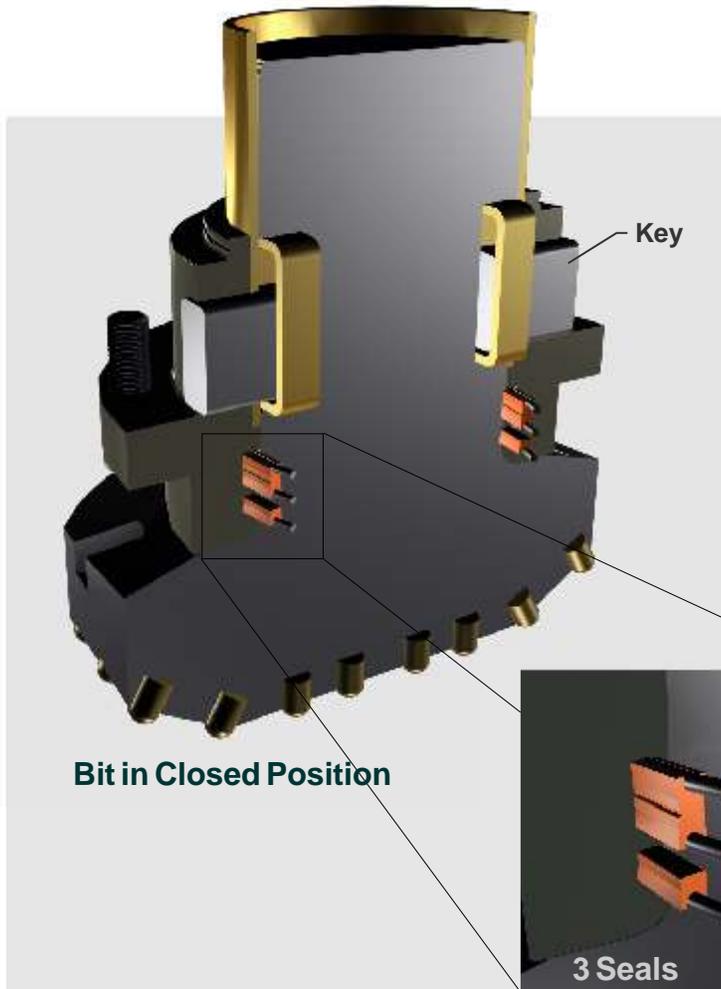
The key drive also **eliminates bit retainer** rings, strengthening the upper portion of the bit while also allowing the bit to be shorter. The shorter bit improves the bit to piston weight ratio, transfusing more energy to the striking surface of the bit.

At left, see bit dropped down in striking position. The manganese bronze guide pockets are stationary within the moving bit while the drive keys are permanently locked in position.

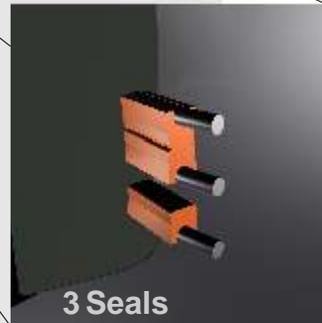
**Three polymite bit chuck seals** maximize the protection against air escaping or water entering between the bit and chuck.

### Drive Keys

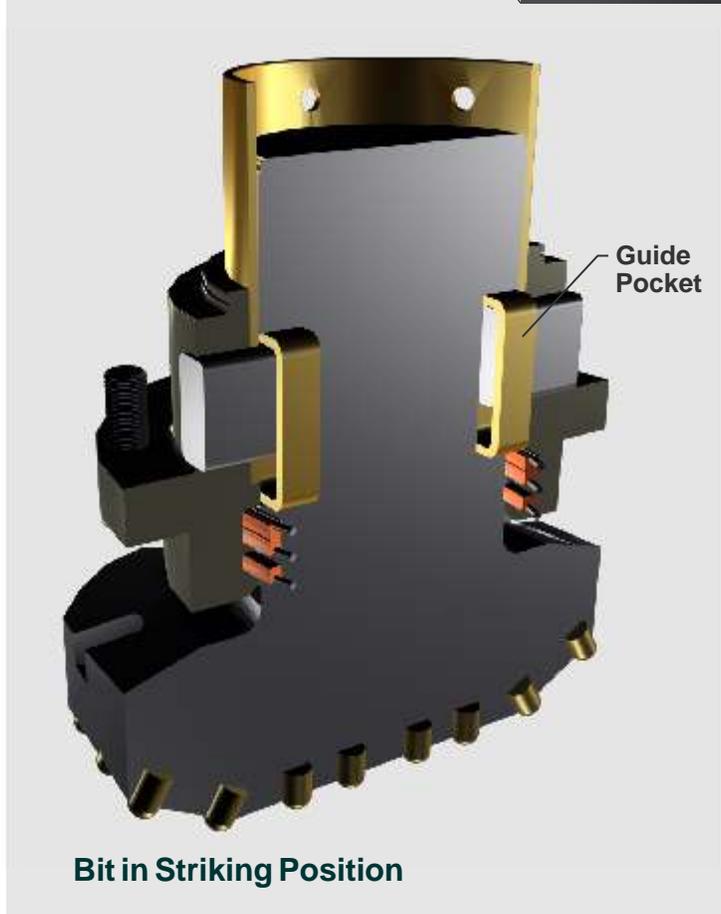
- **Makes the seals last longer.**
- **Allows easier field assembly.**
- **Provides increased bit alignment in side load condition.**
- **Eliminates the split ring flange which is more prone to breaking.**



Bit in Closed Position



3 Seals



Bit in Striking Position



# Holte Closed-Loop Top Exhaust DTH Hammer

The **Holte 1.85 Meter RC Quad Drill**, contains closed loop top exhaust hammers, with unique four sided elliptical bits with ramp angle gage that can index 4 times to allow all gage surfaces to be used. The total bit travel is 1.200in. with .800in. cycle range. When the bit drops .800in. the air is shut off to the individual hammer, and diverted to the remaining hammers with closed bits. This allows the Quad Drill to operate on uneven, crevasses, and fractured surfaces.

The Quad Drill is designed to use water, and or Bentonite (mud) to flush with air lift. The system can also be fitted with a vacuum pump and accessories to use dry for environmentally sensitiva jobs or when the drill is to be used at surface levels with no head of water.

### SPECIFICATIONS (Hammers 6 ea.)

Bore	10.300in.	Stroke	5.000in.
Piston	400 lbs.	Length	91.0 in.
Weight	27,189 lbs.		

