

Innovative solutions creating complete drilling systems



■ HOLTE ROTARY TOP HEAD DRIVE

# HOLTE

## HOLTE ROTARY TOP HEAD DRIVE

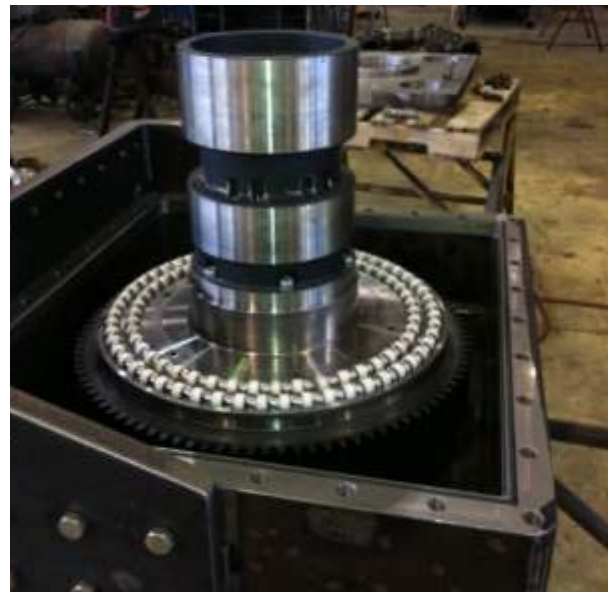
Holte began manufacturing top heads for customers when the top heads being used were unable to accommodate all the components and features needed.

Holte recognized that many unique features are required in the drilling industry of today, such as reverse circulation, tilting heads, grout through systems and a gear ratio that better powers small to large diameter drilling.

Whether you need a basic drill system or special features the Holte Top drive offers powerful solutions. Holte top drives can change with the needs of a growing drilling company making it a good long term investment.

All Holte products are made in Oregon, USA, within their three facilities including a design and machine department, a fabrication facility and heat treating facility. Holte's heat treating facility is solely devoted to heat treating Holte drilling tools, creating the quality Holte is known for.

Holte Manufacturing delivers complete systems built with durable craftsmanship to meet all your drilling needs.







## HOLTE ROTARY TOP DRIVE

### *BUILT IN VERSATILITY*

#### **GEAR BOX INCLUDES**

- Two Hydraulic Motors
- Air Inlet Swivel
- Cuttings Discharge with replaceable wear seals
- Continuous Internal Oiler
- Bulkhead with all hydraulic and air connections
- Provisions For Future Tilt Addition
- Provisions For Casing Driver Mount

#### **OPTIONS**

- Housing or Mast Slide
- Cuttings Discharge Auto Detach for tilt
- Two Tilt Cylinders and leveling stops
- Bulkhead mounted on slide with all connections
- Additional Motors (2) for a maximum of four
- Grout Through System

## HOLTE 6000-4DP ROTARY TOP DRIVE

This Holte 6000-4DP (shown right) provides full 90 degree tilting head to facilitate the drill pipe hook-up. This tilt feature is done using Holte's discharge swivel disconnect, which allows the head disconnect, tilt and reconnect when the head closes back in turning position.

This top drive (shown right) was equipped with two hydraulic motors and has the grout inlet system and pinch valves for both cuttings discharge and a grout line for the grout through system. In this configuration it will produce 42,000 foot pounds of continuous torque from 0 to 3 RPM.

Holte consultants can help you determine the most suitable torque and RPM configuration for the diameter holes you are drilling. The Holte Rotary Top Drives can be purchased in conventional or with reverse circulation capability.



Drive head later mounted on a Bauer RTG 21 sled operating in France.

### POWERFUL TOP DRIVES AVAILABLE IN TWO SIZES

Holte produces two sizes of rotary top head drives to cover a wide range of drilling applications and sizes. Both top drives have a number of options to further customize it for its intended applications. Holte top drives are designed for long use and hands-on servicing as well as great versatility.

The smaller 3000-4DP is over 10" smaller in width, fitting into the mast of smaller drill rigs. With a maximum of two motors, the 3000-4DP has a max torque of 42,000 ft/lbs.

The 6000-4DP has a maximum torque of 84,000ft/lbs. and can run hammer sizes from 10"-40" and multi hammer drills up to 60".

	<b>Gear Box Dimensions (L)x(W)x(H)</b>	<b>Torque (2 motors) ft/lbs.</b>	<b>Torque (3 motors) ft/lbs.</b>	<b>Torque (4 motors) ft/lbs.</b>	<b>Center Hole Diameter</b>	<b>RPM range</b>	<b>Rec. Diameter</b>
3000-4DP	32.4x24x13"	42,000	n/a	n/a	6"	2-30	0"-30"
6000-4DP	32x34.9x13.6"	42,000	63,000	84,000	6"-8"	.16-15	10"-40"/60"

**RIG CONVERSION OPTION  
HOLTE ROTARY TOP DRIVE  
-with-  
HOLTE CASING DRIVER**

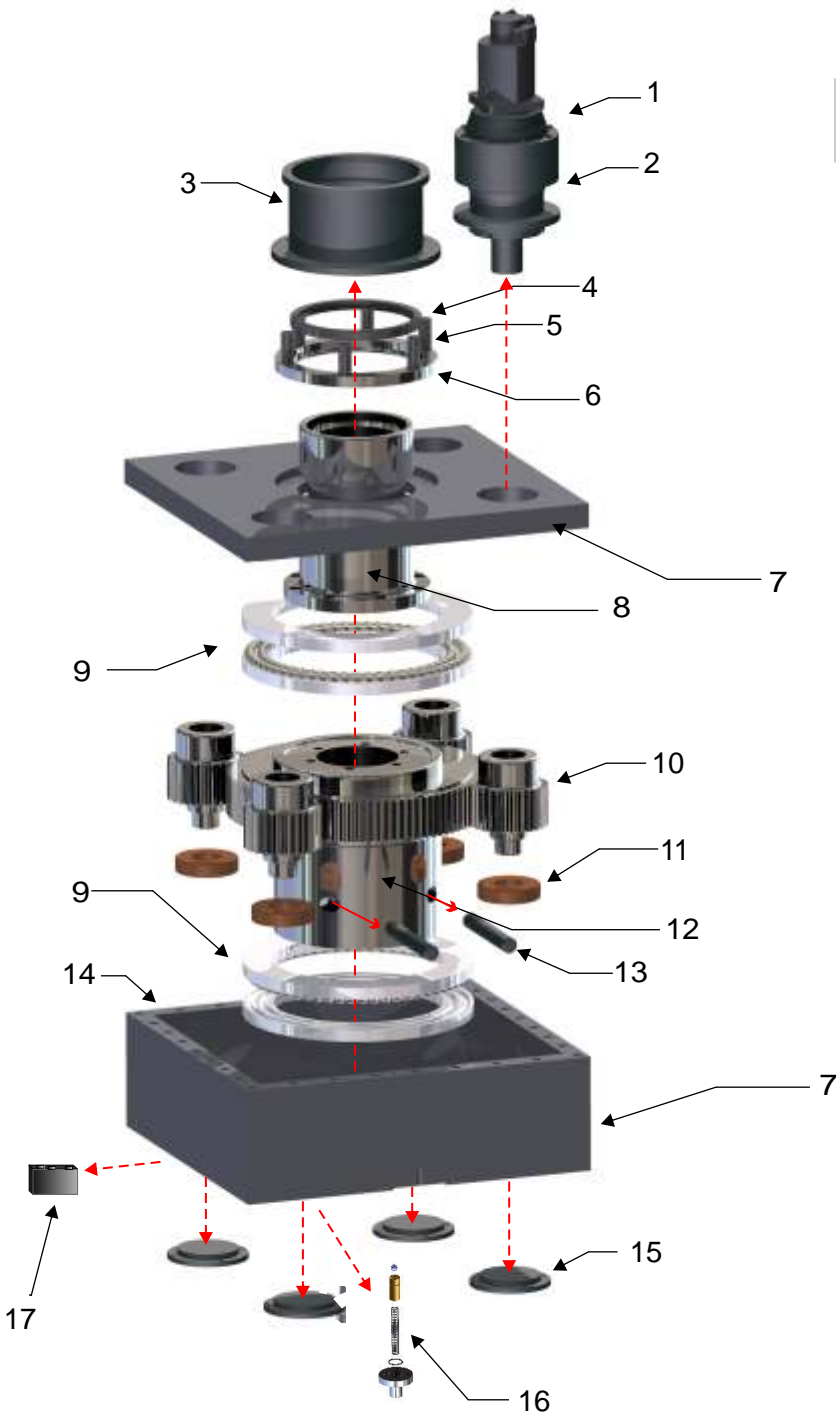
**A Winning Combination**

Holte Manufacturing offers custom installs combining rotary top drives fitted to Holte casing drivers. The Holte casing driver automatically advances the casing while drilling, thus keeping the casing close to the bottom of the bore hole. Holte offers a wide range of hammers and bits as well as several types of underreamers for an inclusive system and better penetration rates.

All components are designed together for uniform air velocity and containment of air and cuttings. Holte systems are uniquely designed to be set up for either standard or reverse circulation.



# ROTARY TOP DRIVE PARTS LIST



## 6000-4DP ROTARY TOP DRIVE

PART NAME	PART
6000-4DP Assembly	101180
1. Eaton Motor	101181
2. Heco Gear	101182
3. Air Swivel Inlet (1 to 4)	101183
4. Top Case Seal (1 to 4)	101184
5. Spacer Tubes (6)	101185
6. Top Case Seal Holder	101186
7. 6000-4DP Housing	101194
8. Gear Shaft Extension	101187
9. Bearing Assembly (2)	101188
10. Pinion Gear (1 to 4)	101189
11. 6314-22 Bearing (1 to 4)	101190
12. Bull Gear with Integrated Shock Cushion	101191
13. Pipe Locking Pins (2)	101192
14. Oil Pump Wobble Plate	101193
15. Bottom Pinion Covers (4)	101195
16. Oiler Assembly	101196
17. Pressure Relief Valve	101197

Holte Mfg. Co  
 25310 Jeans Road  
 Veneta Oregon 97487  
 USA  
 T. 541-935-5054  
 F. 541-935-5430  
 www.drilling.com

100% MADE IN USA