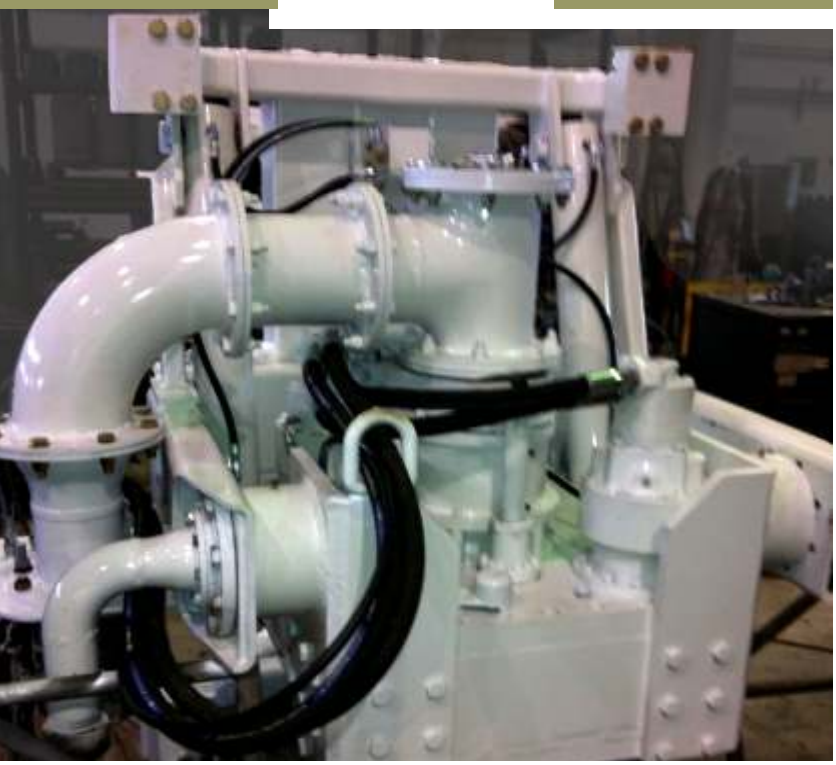
Innovative solutions creating complete drilling systems



6000-4 DP ROTARY TOP DRIVE 2013

HOLTE

6000-4 DP ROTARY TOP DRIVE

Holte Rotary Top Drives are available with one to four hydraulic motors giving you a full range of continuous torque from 25,000 to 100,000 foot pounds (34KNM to 136KNM). The 6000-4DP is specifically designed for reverse circulation drilling with an 8” spindle opening but can be sleeved to 6”. Depending on the application and drill depth the Holte Rotary Top Drive can also be converted to conventional drilling.

Standard 6000-4 DP Configuration Includes

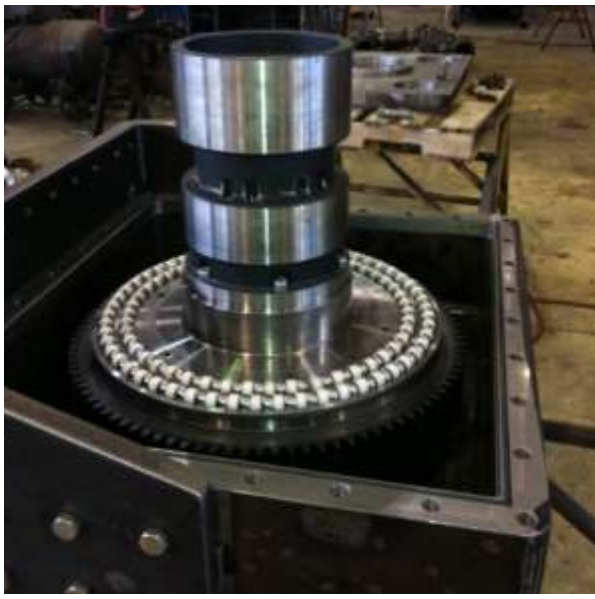
- Air inlet swivel
- Cuttings discharge with replicable wear plate
- Automatic mechanical lubrication
- Bulkhead with all hydraulic and air connection

Options

- Grout through line with pinch valve
- Cuttings discharge with pinch valve
- 90 degree tilt for easy drill pipe hook-up
- Carriage or slide adapted to your mast
- Bulkhead positioned on slide

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 customers who have purchased a Rotary Top Drive, often bring their drilling rig to Holte’s fabrication facility to have it custom fit to their rig. These installations have included the Holte Rotary Top Drive with a cylinder mounted pneumatic casing driver and reverse circulation drill pipe. These systems have been fitted to Holte RC or conventional underreaming drills ranging from 10” to 42”. Holte Manufacturing delivers a complete system custom built with durable craftsmanship.



HOLTE 6000-4 DP ROTARY TOP DRIVE

GEARBOX INCLUDES

Two hydraulic motors with receptacles for four motors total.
Air Inlet Swivel
Cuttings Discharge with replaceable wear plate
Automatic Mechanical Internal Oiler
Provisions For Future Tilt Addition
Bulkhead with all hydraulic and air connections

OPTIONS

Housing or mast slide
Detachable Air Inlet Swivel for tilt mechanism
Two Tilt Cylinders and leveling stops
Bulkhead mounted on slide with all connections

GROUT THROUGH SYSTEM

Cuttings Discharge air operated pinch valve
Grout Line air operated pinch valve
Four way air control valve

Planetary gear ratio is 6 to 1
Gear box ratio is 4.08 to 1
Bull gear 98 tooth count
Small gear 24 tooth count

Pivoting drive head is recommended to facilitate the drill pipe hook-up. Holte can custom design, fabricate and instal other variations to meet your specifications.

HOLTE 6000-4DP ROTARY TOP DRIVE

Drive head mounted on Bauer RTG 21 sled. Full tilt to 90° and equipped with 2 hydraulic motors. This drive head has the grout inlet system and pinch valves for both cuttings discharge and grout line and is operating in France.

In this configuration it will produce 50,000 foot pounds of continuos torque at 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 6000-4DP Rotary Top Drive can be purchased in the standard or a custom configuration.

HYDRAULIC MOTOR CONFIGURATIONS

TORQUE: The Holte 6000-4DP Rotary Top Drive comes with 2 motors each capable of 25,000 ft. lbs. of torque at continuous duty.

RPM: The RPM of the motors can be determined by the amount of hydraulic flow. With 16 gal. per motor of hydraulic flow it will turn 4 RPM. With maximum continuous duty of 40 gal. per motor the rotation speed is 13 RPM.

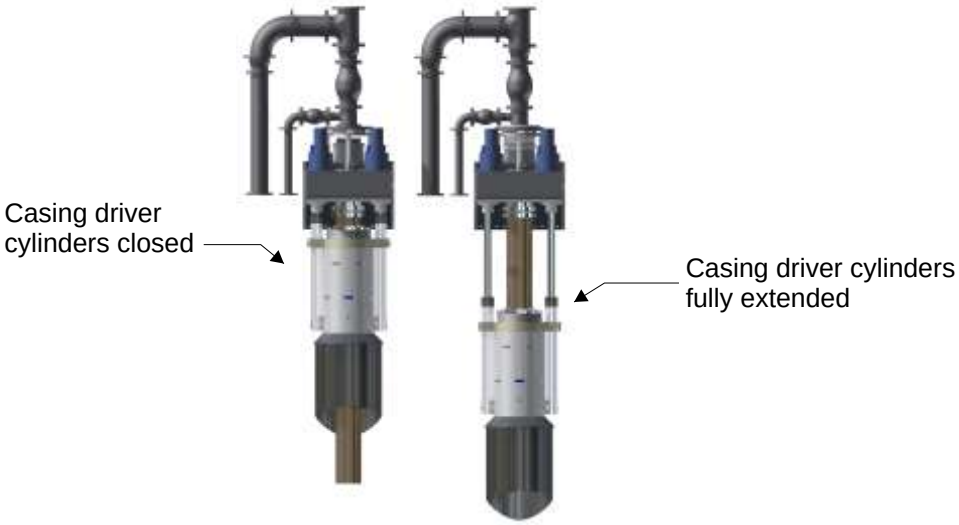
Top drives designed for larger diameter holes are typicly set up to run with high torque and lower RPMs.

RIG CONVERSION OPTION

HOLTE 6000-4DP
-with-
HOLTE RC600 CASING DRIVER

A Winning Combination
Holte Manufacturing offers the choice to combine the 6000– 4DP drive head and the RC600 casing driver together with the Holte URG Under Reamer for even better penetration rates in rock or other formations. The casing driver automatically advances the casing while drilling, thus keeping the casing close to the bottom of the borehole.

All components designed together for uniform air velocity and containment of air and cuttings.



Contact Holte for a quote for your conventional or reverse circulation system. ph: **(541)935-5054**