

NOVOS™ enabled

# Increase power and torque by up to 45%

# TDS-11HD

Higher torque and more power enables faster and deeper drilling, even in the most demanding well operations

As the land drilling market demands high torque at high speed, contractors require top drives that meet demands for longer laterals and deeper wells. The TDS-11HD builds upon the field-proven performance and brand quality of the TDS 11SA top drive, offering extra power and torque for increased drilling requirements.

Featuring two 600-horsepower induction motors plus gear box internals, the TDS-11HD yields more torque than previous top drive models in its size and class. The 500-ton main thrust bearing ensures hoisting capacity to handle heavy pipe. This means faster and deeper drilling, both vertically and horizontally, to help you reach your pay-zone in even the most demanding formations.

Offering the advantage of continued support through the global NOV network, engineering and aftermarket, the TDS-11HD enables drilling of wells beyond the technical limits of the standard top drive.

Contact your local NOV representative to learn how the TDS-11HD can improve your performance.

Related Products: TDS-11SAE



# Up to 45% more power and torque

## Features and benefits

### Two 600-horsepower induction motors

- Dramatic increase in horsepower yields significantly more torque
- Enables drilling of wells beyond the technical limits of the standard top drive

### 500-ton main thrust bearing

- Ensures hoisting capacity to handle heavy pipe
- API 8C hoisting and rotating; dynamic and static

### Fits any mast currently using TDS-11SA Top drives

- Minimizes downtime by using configurable components
- Delivers significantly more power in virtually the same footprint

### Available software enhancements

- SoftSpeed II™, Twister

Drilling Motor Type	AC Induction Motors
Horsepower Rating	2 x 600 HP
TDS Working Height	19'4" (21'8" with 120" Bail)
Weight	35,000 lbs. (15,875 kg)
Transmission	
Gear Ratio	10.56:1
Lube	Force-fed, filtered, air-cooled
<b>Drilling Parameters</b>	
Maximum Speed	228 RPM
Maximum Continuous Torque	58,800 ft-lb (79,722 N-m)
Speed at Maximum Breakout Torque	110 RPM
Maximum Breakout Torque	75,000 ft-lb (101,686 N-m)
Maximum Makeup Torque	62,500 ft-lb (84,738 N-m)
Static Lock Brake	39,000 ft-lb (52,877 N-m)
<b>Rating Capacities</b>	
Hoisting and Rotating	500 ton (453,592 kg)
Water Course	3 in (76.2 mm)
Washpipe Packing	7,500 psi (517 bar)
<b>Pipe Handler</b>	<b>PH-75</b>
Torque Capacity	75,000 ft-lb (101,686 N-m)
Connection OD	4 in – 8½ in (101.6 mm – 215.9 mm)
IBOP Pressure Rating	15,000 psi (1,034 bar)
Upper IBOP	6½ in API Reg. RH Box (remote operated)
Lower IBOP	6½ in API Reg. RH Pin/Box (manual)
Rotation/Orientation	360°/Unlimited
<b>Other</b>	
Cooling System	Local Blower
Hydraulic Power	Onboard
Temperature Range	-40°C to +55°C (-40°F to +131°F)*
Casing Running Tool Ready	Optional
Elevator Links	250, 350 and 500 ton API
Footprint	65.2 in x 56.1 in (1,656 mm x 1,425 mm)

\*-40°C is the standard operating temperature

### Torque compare

TDS11-SA	TDS11-HD Upgrade
37,500 ft-lb @ 110	58,800 ft-lb @ 110
35,000 ft-lb @ 120	51,000 ft-lb @ 120
33,000 ft-lb @ 125	49,900 ft-lb @ 125
23,000 ft-lb @ 180	32,800 ft-lb @ 180
14,668 ft-lb @ 228	25,200 ft-lb @ 228

### Torque Curves for TDS-11SA and TDS-11HD

