

# TDS-11-1200

Increase power and torque by up to 45%

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

As the land drilling market demands longer laterals and deeper wells, contractors require top drives that can deliver more torque with high speed. The TDS-11-1200 builds upon the field proven performance and brand quality of the TDS-11-800 top drive, providing additional power and torque for increased drilling requirements.

Featuring two 600-horsepower induction motors, the TDS-11-1200 yields 45% higher torque performance 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 reach your pay-zone in even the most demanding formations.

The TDS-11-1200 is available in two configurations, the HD and the SAE. The HD offers enhanced standard features such as direct RTD temperature sensors, encoder redundancy, oil monitoring, RLA pressure switches, and consolidated VFD drives enabling a higher level of product performance and reliability. While the SAE configuration utilizes the same sensor package of legacy models, maintaining commonality throughout a mixed fleet.

NOV also offers an upgrade option for current TDS-11-800 models converting to TDS-11-1200, performed at one of NOV's global certified repair centers during standard overhaul service periods. This provides drilling contractors with a cost-effective, OEM-engineered solution that minimizes downtime and leverages existing asset investments.

Contact your local NOV representative to learn how the TDS-11-1200 can improve your performance.

**Related Products: TDS-11-800 (TDS-11SA)**



# Up to 45% more power and torque

<b>Drilling Motor Type</b>	AC Induction Motors
<b>Horsepower Rating</b>	2 x 600 HP
<b>TDS Working Height</b>	19'4" (21'8" with 120" Bail)
<b>Weight</b>	35,000 lbs. (15,875 kg)

<b>Transmission</b>	
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	51,000 ft-lb (59,147 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	3 1/8 in - 8 5/8 in (82.5 mm - 219.1 mm)
IBOP Pressure Rating	15,000 psi (1,034 bar)
Upper IBOP	6% in API Reg. RH Box (remote operated)
Lower IBOP	6% 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	73.8 in x 56.8 in (1,875 mm x 1,443 mm)

\*-40°C is the standard operating temperature

## 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-11-800 top drives

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

### Available software enhancements

- SoftSpeed II™, Twister

## Torque comparison

TDS-11-800	TDS-11-1200
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-11-800 and TDS-11-1200

