

TDS-11SH

Top Drive



The Most Powerful Top Drive of Its Size

We pulled together your input, field service feedback and the experiences of the three leading legacy top drive suppliers — National Oilwell, Hydralift and Varco — to develop the best top drives to suit your needs. With this backing, we released the TDS-11SH in 2012, one of the latest innovations in our long history of successful top drives.

Combining the TDS-11SA top drive design, which is the largest-selling single design in the history of top drives, with added power density and torque, the TDS-11SH is the most powerful top drive of its size. This means faster and deeper drilling, both vertically and horizontally, to help you reach your payload in even the most demanding formations. With the ability to interface with automatic control systems and various software enhancement options, the TDS-11SH also puts safety and efficiency at the forefront of your operations.



Benefits

- Most powerful top drive of its size for faster, deeper drilling
- Configurable to your specific needs
- Superior design specifications of field-proven TDS-11SA retained
- Increased gear, bearing and seal performance at higher ambient temperatures

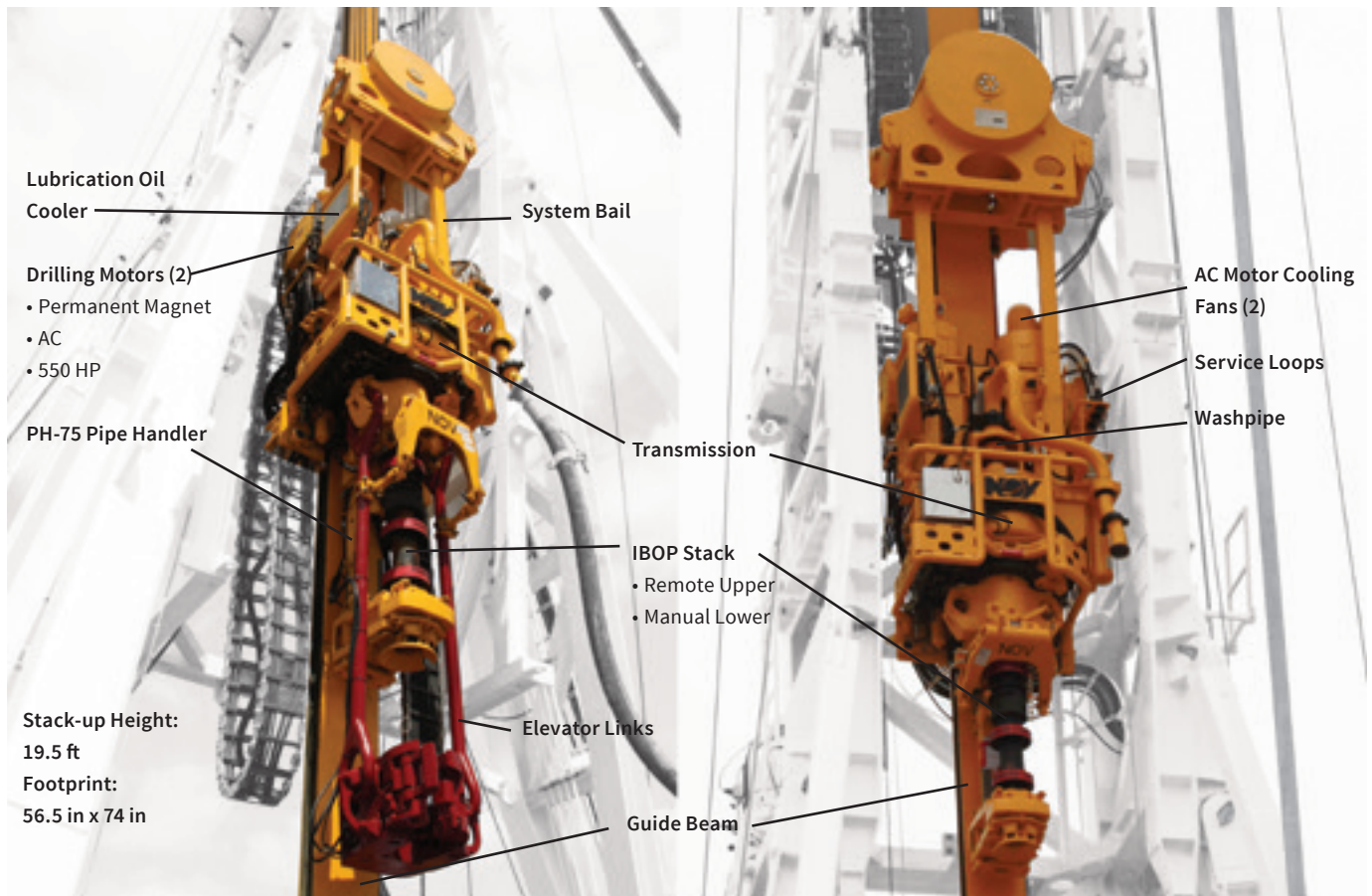
- Tool height and rapid-installation guide beam design allow for easy retrofits for existing rigs

Key Specifications

- 1,100 HP
- 500 tons rotating and hoisting capacity
- 51,000 ft-lb continuous drilling torque at 125 RPM
- 75,000 ft-lb breakout torque
- Temperature range: -40°C to 55°C

- Available software enhancements: SoftSpeed II™, Twister™, Monkey Board Collision Warning System

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Specifications

Drilling Motor Type	Baldor Reliance AC Permanent Magnet Motors
Horsepower Rating	2 x 550 HP
TDS Working Height	19.5 ft (5,943.6 mm)
Weight	28,000 lb (12,700 kg)
Transmission	
Gear Ratio	10.6:1
Lube	Force-fed, filtered, air-cooled
Drilling Parameters	
Maximum Speed	228 RPM
Maximum Continuous Torque	51,000 ft-lb (69,147 N-m)
Speed at Maximum Breakout Torque	125 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	50,000 ft-lb (67,790 N-m)
Rating Capacities	
Hoisting and Rotating	500 ton (453,592 kg)
Water Course	3 in (76.2 mm)
Washpipe Packing	7,500 psi (517 bar)
Pipe Handler	PH-75
Drill Pipe Range	3½ in – 6 in (88.9 mm – 168.2 mm)
Connection OD	4 in – 8½ in (101.6 mm – 215.9 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
Other	
Cooling System	Local Blower
Hydraulic Power	Onboard
Temperature Range	-40°C to +55°C (-40°F to +131°F)
Casing Running Tool Ready	Yes
Elevator Links	250, 350 and 500 ton API
Footprint	56.5 in x 74 in (1435 mm x 1880 mm)

Performance Curve

TDS-11SH Top Drive Performance at 55°C Ambient

