

Rig Technologies

TDS-11SA Top Drive

The World's Most Popular Top Drive

Quality matters.

“We just did a maintenance comparison using the TDS-11SA for six months vs one of our competitor's. We spent \$4,800 on the TDS and \$29,876 on the competitor, not including downtime. That speaks for itself.”

- *Drilling Contractor*

Rooted in the expertise of Varco, Hydralift, and National Oilwell, the TDS-11SA is the best-selling single design in the history of top drives since their introduction in 1997.

The TDS-11SA sets the standard for dependability, performance and quality. Delivering 500 tons of hoisting capacity, 800 horsepower and 37,100 ft-lbs of continuous drilling torque, the effectiveness and established reputation of the top drive is unmatched within the industry. Synchronized with the AMPHION™ Integrated Drilling Control System, control of the TDS-11SA is at your fingertips, ensuring precise drilling parameters are met and a better wellbore. With over 2,000 TDS-11SAs delivered to-date, there is no disputing that it is the most trusted top drive on the market.

Benefits

- Low cost of ownership for both operation and maintenance
- Established reputation of dependable performance and quality construction
- Versatile design: can be used as a portable or permanent unit; compact and lightweight; configurable; easily retrofitted into existing rigs

Key Specifications

- 800 HP
- 500 ton API-8C rated hoisting capacity
- 37,100 ft-lb continuous drilling torque at 110 RPM
- 55,000 ft-lb makeup torque
- Operational temperature configurations, starting from -40°C through 55°C
- Available software enhancements:
 - SoftSpeed II™
 - Twister™
 - Active Link Tilt Monitoring System

Drilling Motor Type	AC Induction Motors
Horsepower Rating	2 x 400 HP
TDS Working Height	19 ft (5,791 mm)
Weight	28,000 lb (12,700 kg)
Transmission	
Gear Ratio	10.5:1
Lube	Force-fed, filtered, air-cooled
Drilling Parameters	
Maximum Speed	228 RPM
Maximum Continuous Torque	37,100 ft-lb (50,300 N-m)
Speed at Maximum Continuous Torque	110 RPM
Maximum Breakout Torque	60,000 ft-lb (81,349 N-m)
Maximum Makeup Torque	50,000 ft-lb (67,790 N-m)
Static Lock Brake	39,000 ft-lb (52,877 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
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
Other	
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)

Performance Curve

TDS-11SA Top Drive Performance at 55° Ambient

