



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 largest-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

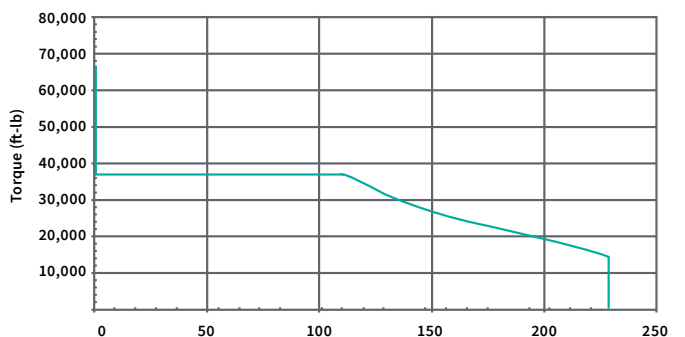
- 800 HP
- 500 ton API-8C rated hoisting capacity
- 37,100 ft-lb continuous drilling torque at 110 RPM
- 55,000 ft-lb makeup torque
- Temperature range: -40°C to 55°C
- Available software enhancements: SoftSpeed II™, Twister™, Monkey Board Collision Warning System

Drilling Motor Type	Baldor Reliance 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 (50,301 N-m)
Speed at Maximum Breakout Torque	110 RPM
Maximum Breakout Torque	65,000 ft-lb (88,128 N-m)
Maximum Makeup Torque	55,000 ft-lb (74,570 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	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	Optional
Elevator Links	250, 350 and 500 ton API
Footprint	65.2 in x 56.1 in (1,656 mm x 1,425 mm)

*55°C derates the drilling torque 10%; 50°C is the standard operating temperature

Performance Curve

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



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