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

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

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)

Lube Force-fed, filtered, air-cooled

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

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