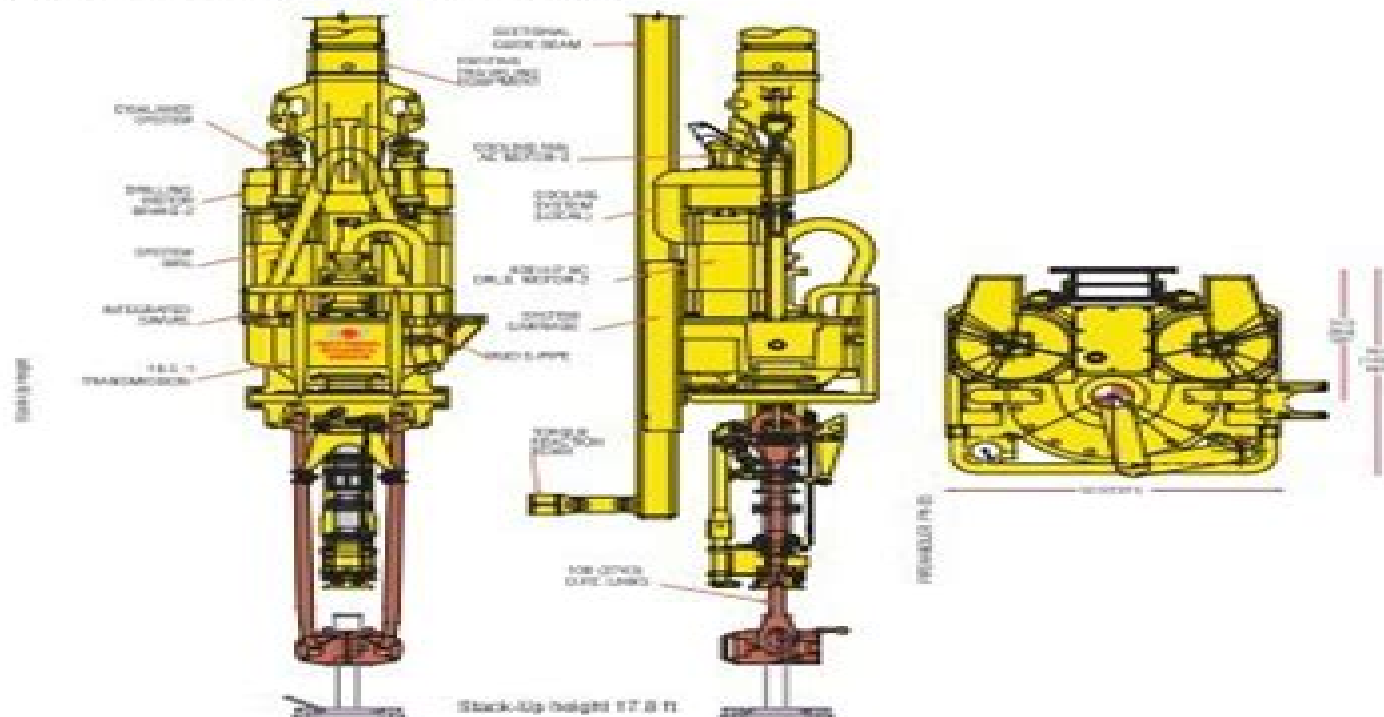


# TDS-11SA — 500 Ton AC Top Drive

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National Oilwell Varco's TDS-11SA AC Top Drive offers improved productivity in both horizontal and vertical drilling operations.

System benefits include:

High performance Dual AC Motors and Variable Frequency Drive

Portability — dual C motors combined with "S"-type integral swivel form one of most compact drilling packages available

Low maintenance — no brush gear or commutator, no stand-alone hydraulic supply

Improved economy — reduced fuel consumption

Increased safety

Increased Reliability and Extended Life

Fast Directional Drilling

Increased Environmental Safety

National Oilwell Varco's TDS-11SA AC Top Drive is an AC-motor-powered top drive developed for use as a portable or permanent unit on a wide variety of land and offshore applications. Its compact size also allows for installation on small workover and portable rigs. The TDS-11SA generates 800 HP with a hoisting capacity of 500 tons and a continuous drilling torque rating of 37,500 ft.-lbs. The TDS-11SA has a maximum speed of 275 rpm and make-up/break-out torque of 55,000 ft. ft. Speed can be maintained from 114 rpm to 180 rpm without downgrading the 800 HP rating of the motors. Because of the broad speed and torque range of AC motor technology, this impressive performance is obtained using a single-speed gear box.

The TDS-11SA Top Drive system is driven by a Variable Frequency Drive (VFD) control system for a greater range of torque and speed performance. System components include an integrated swivel, bi-directional link tilt system, remote and manual blowout preventer valves, back-up clamp for breaking out connections, a guide beam for reacting drilling torques, and an electric service loop. A compact integral power unit mounted on the top drive eliminates the need for hydraulic service loops. And the short overall height and rapid-installation guide beam design of National Oilwell Varco's TDS-11SA ensure easy installation in existing masts or derricks.

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# National Oilwell Varco Top Drive Manual

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