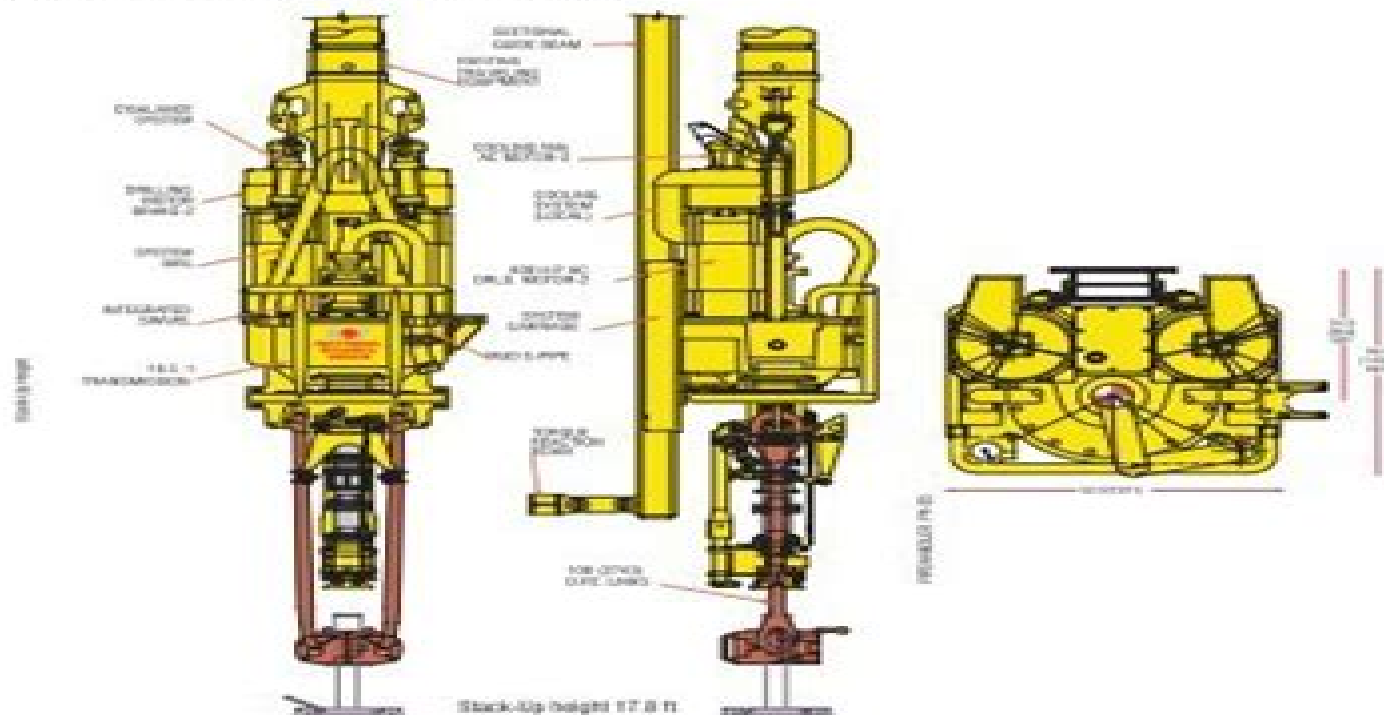


TDS-11SA — 500 Ton AC Top Drive

AVAILABLE FOR SALE OR RENTAL



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 torque, 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.

TDS-11SA — 500 Ton AC Top Drive

www.nov.com / corporatemarketing@nov.com

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National Oilwell Varco Top Drive Manual

Clifford Lane



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Table of Contents National Oilwell Varco Top Drive Manual

1. Understanding the eBook National Oilwell Varco Top Drive Manual
 - The Rise of Digital Reading National Oilwell Varco Top Drive Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying National Oilwell Varco Top Drive Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an National Oilwell Varco Top Drive Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from National Oilwell Varco Top Drive Manual
 - Personalized Recommendations

- National Oilwell Varco Top Drive Manual User Reviews and Ratings
- National Oilwell Varco Top Drive Manual and Bestseller Lists
- 5. Accessing National Oilwell Varco Top Drive Manual Free and Paid eBooks
 - National Oilwell Varco Top Drive Manual Public Domain eBooks
 - National Oilwell Varco Top Drive Manual eBook Subscription Services
 - National Oilwell Varco Top Drive Manual Budget-Friendly Options
- 6. Navigating National Oilwell Varco Top Drive Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - National Oilwell Varco Top Drive Manual Compatibility with Devices
 - National Oilwell Varco Top Drive Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of National Oilwell Varco Top Drive Manual
 - Highlighting and Note-Taking National Oilwell Varco Top Drive Manual
 - Interactive Elements National Oilwell Varco Top Drive Manual
- 8. Staying Engaged with National Oilwell Varco Top Drive Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers National Oilwell Varco Top Drive Manual
- 9. Balancing eBooks and Physical Books National Oilwell Varco Top Drive Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection National Oilwell Varco Top Drive Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine National Oilwell Varco Top Drive Manual
 - Setting Reading Goals National Oilwell Varco Top Drive Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of National Oilwell Varco Top Drive Manual
 - Fact-Checking eBook Content of National Oilwell Varco Top Drive Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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