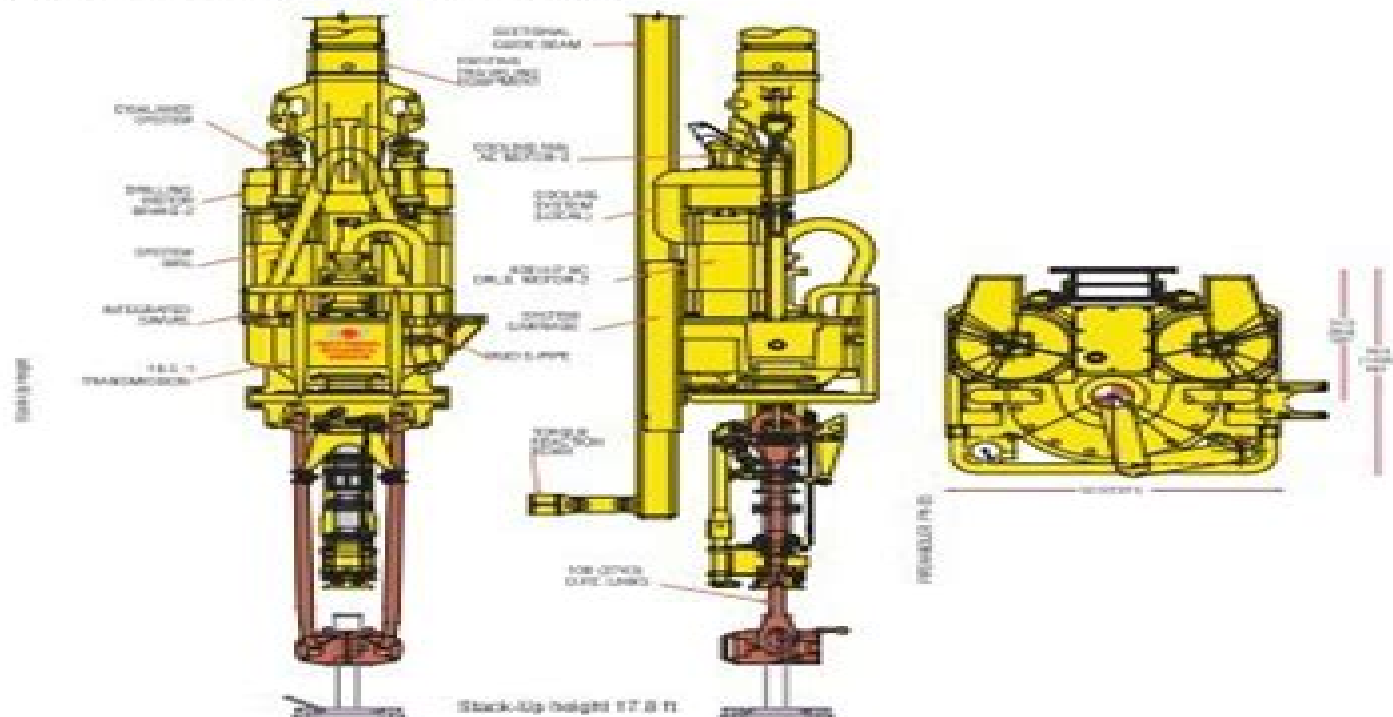


TDS-11SA — 500 Ton AC Top Drive

AVAILABLE FOR SALE OR RENTAL



Stack-Up height 17.8 ft.

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 twisting 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.

TDS-11SA — 500 Ton AC Top Drive

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NOV NATIONAL OILWELL VARCO

National Oilwell Varco Top Drive Manual

**Elisabetta Bini, Giuliano
Garavini, Federico Romero**



National Oilwell Varco Top Drive Manual:

Oil Shock Elisabetta Bini, Giuliano Garavini, Federico Romero, 2016-05-27 The 1973 Oil Shock is considered a turning point in the history of the twentieth century At the time it seemed to mark a definitive shift from the era of low priced oil to the era of expensive oil For most Western industrialized countries it became the symbolic marker of the end of an era For many oil producers it translated into an unprecedented control over their energy resources and completed the process of decolonization leading to a profound redefinition of international relations This book provides an analysis of the crisis and its global political and economic impact It features contributions from a range of perspectives and approaches including political economic environmental international and social history The authors examine the origins of what was defined as an oil revolution by the oil producing countries as well as the far reaching effects of the shock on the Cold War and decolonization on international energy markets and the global economy In doing so they help place the event in its historical context as a key moment in the transformation of the international economy and of North South relations Ocean Industry ,1990

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Witness the Wonders in **National Oilwell Varco Top Drive Manual** . This immersive experience, available for download in a PDF format (Download in PDF: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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