

Top Drive

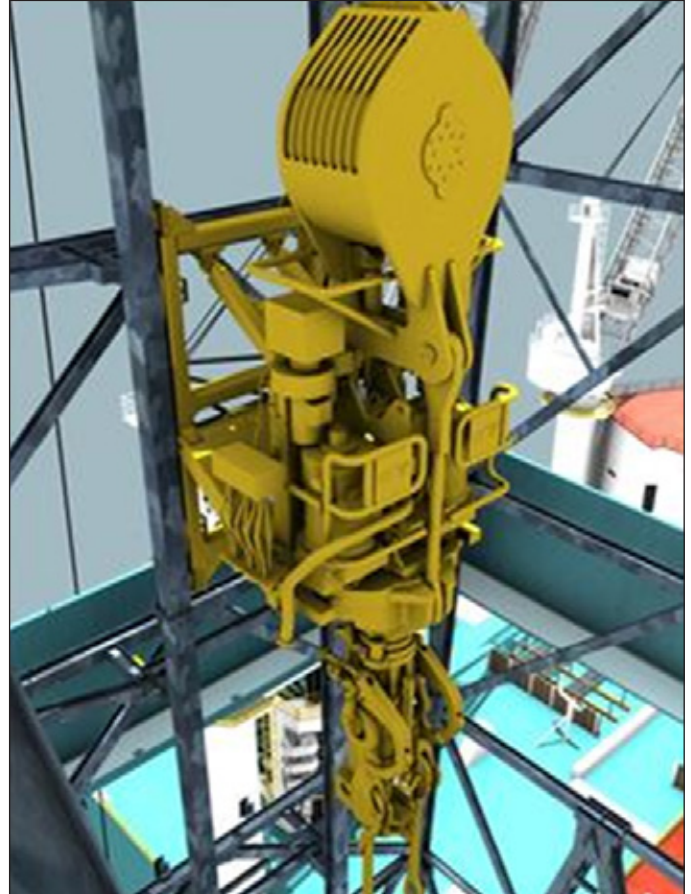
TD-1250-AC-2M-GE

Cameron's TD-1250-AC-2M-GE top drive is a two-motor top drive, designed to accommodate client demands for an efficient, safe and rigid top drive system for all drilling operations. The engineering of the top drive ensures low maintenance and long equipment life using industry-proven components and high-fatigue capacity materials.

The remote-operated control system uses a customized PLC to ensure smooth, natural and comfortable operation. The TD-1250-AC-2M-GE is designed for permanent installation at offshore drilling locations.

Main Features

- Maintenance-friendly solutions:
 - ◆ Hydraulic valve blocks directly mounted on rotation head
 - ◆ Drip pans under all filters
 - ◆ Access to all relevant maintenance items if working platform mounted between guiderails
 - ◆ Swing-out blower design
 - ◆ Docking pin features allow top drive body to be split from main frame in minimum time
 - ◆ Lifting provisions on all items
 - ◆ Disk brakes mounted inside coupling bell housings
- High-capacity thrust bearing
- Helical-cut gear teeth (carburized and grinded) increase service life and reduce noise level and maintenance
- Gearbox lubrication ensures optimal performance of gears and bearings under all environmental conditions
- Self-calibrating thread compensation system uses analogue stroke sensor to optimize performance
- Onboard hydraulic system is designed to minimize the number of hoses and fittings installed
- Bell housings between AC motors and gearbox ensure perfect alignment and protect the flexible coupling between motor output shaft and gearbox pinion shaft
- High-capacity knuckle link tilt system allows handling of the latest model of "fail-safe" elevator – from drilling to maximum kickout mode
- Torque wrench can handle toll joint OD sizes from 4" to 10" without changing die inserts
- Wash pipe can be replaced within five minutes



- Rotary head with 18 ports
- Prepared for hydraulic and/or pneumatic elevators

Safety Features

- Programmable arbitrary stop positions for the pipehandler rotate function allow the driller to set a number of predefined "elevator open" positions
- No need for hammer tools when replacing wash pipe
- Customized PLC software provides simple, accurate and natural operator controls from a single point
- Noise reduction
- Dual retention of all fasteners
- Torque wrench design eliminates risk of accidental breakout of drillstem subs

Technical Specifications	SI	Imperial (US)
Hoisting capacity	1133 tonnes	1250 tons
Maximum continuous torque	133,000 N·m	98,150 ft-lb
Maximum speed	275 rpm	275 rpm
Torque wrench make/break	153,500/153,500 N·m	115,000/115,000 ft-lb
Power rating	1715 kW	2300 hp
Water course pressure rating	517 bar	7500 psi
IBOP pressure rating	1030 bar	15,000 psi
Design	API 8C, PSL 1	
Area classification	Zone 1, IIB, T3 area	

Scope of Supply	Options
Top drive assembly, complete with gearbox, S-Pipe, AC drilling motor with IP44 enclosure, blower, drillstem subs, suspension system, weight-compensating system, rotatable pipehandler with knuckle link tilt system, remote IBOP actuator and torque wrench	Retractable or non-retractable dolly – specifically designed to fit existing guide rails
Power and signal service loops	Elevator links for drilling and/or casing
Control system, including PLC, onboard valve control unit and derrick junction box termination kit	1250 ton traveling block (or TB adapter becket for other vendor type block)
Handling (transport) cradle including lifting sling	Riser running tool tilt system
Auxiliary tools	AC drive package
Documentation	AC motor with IP56 enclosure
	Water-cooled AC drilling motors
	Mud hose
	Saver sub for various tool joint sizes
	Traveling block adapter
	Operator's control panel

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