

# TD-250-AC-1M

## Top drive

### APPLICATIONS

Land drilling operations

### BENEFITS

- Improved operational certainty and efficiency with best-in-class performance and reliability
- Enhanced range of applications through modular design and ruggedized drilling capabilities
- High clamping force that reduces risk of bad grip when breaking out

### FEATURES

- High-capacity thrust bearing
- Helical-cut gear teeth (carburized and grinded) that increase service life and reduce noise level and maintenance
- Forced gearbox lubrication for optimal performance of gears and bearings under all environmental conditions
- Onboard power-regulated hydraulic power unit (HPU)
- Weight-compensating system cylinders with built-in analog stroke sensor
- Hammerless-style washpipe that enables washpipe replacement within 5 min
- Onboard remote I/O that minimizes number of interface cables between variable frequency drive (VFD) housing and top drive

The TD-250-AC-1M provides best-in-class performance and proven reliability combined with simple maintenance and superior uptime.

### Flexible operation

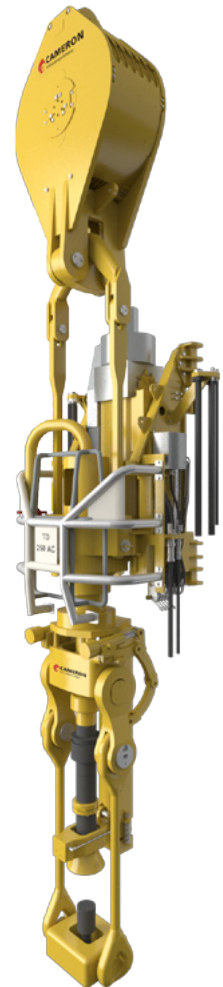
The single-motor top drive accommodates customer demands for an efficient and rigid top drive system for all land drilling operations.

### Reliable, long-life service

The engineering of the top drive ensures low maintenance and long equipment life using industry-proven components and high-fatigue-capacity materials.

### Simplified, safer operation

The remote-operated control system uses a customized PLC to ensure smooth, natural, and comfortable operation. The TD-250-AC-1M top drive is designed for portable installation on land rigs.

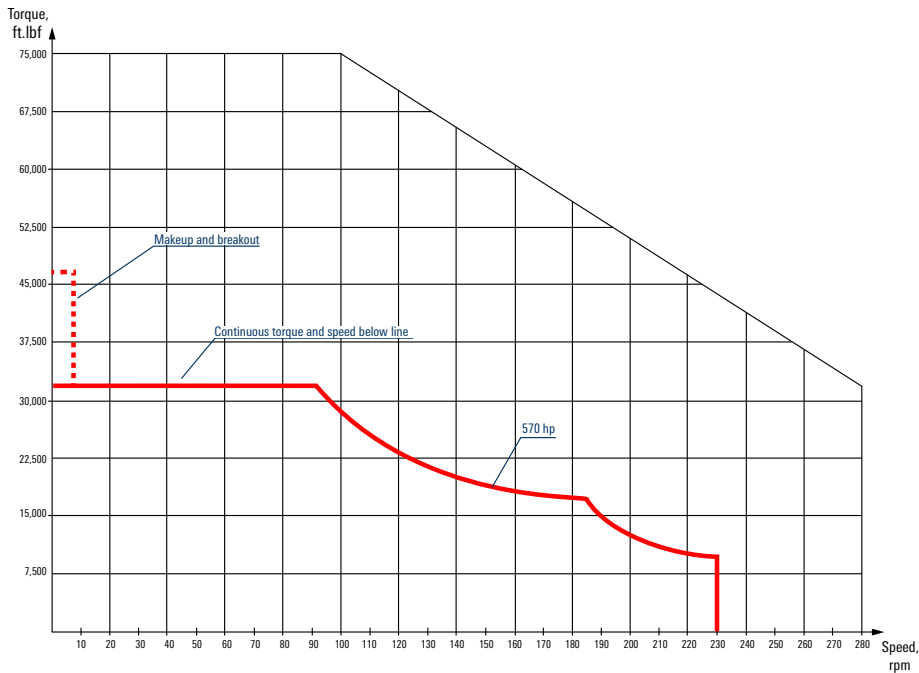


*The straightforward design of the TD-250-AC-1M enables dependable performance and maximized uptime.*

### Technical Specifications

Hoisting capacity, tonUS [tonUK]	250 [226]
Maximum continuous torque, ft.lbf [N.m]	32,450 [44,000]
Maximum speed, rpm	230
Maximum makeup-breakout torque, ft.lbf [N.m]	45,700 [62,000]
Backup tong grab size, in [mm]	
Minimum OD	4 [102]
Maximum OD	8 [203]
Power rating, hp [kW]	570 [425]
Water course pressure rating, psi [MPa]	7,500 [51.7]
Inside BOP (IBOP) pressure rating, psi [MPa]	15,000 [103.42]
Design code and standard	API Specification 8C (Product Specification Level 1)
Area classification	ATEX Zone 1 and 2, IIB, T3

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Torque and rpm performance curve of the top drive represents its high-quality performance in a range of operation parameters

## Scope of Supply

Top drive assembly, complete with gearbox, S-pipe, AC traction motor with Ingress Protection Standard 44 (IP44) enclosure, blower, drillstem subs, suspension system, weight-compensating system, onboard HPU, onboard remote I/O, rotatable pipe handler with bidirectional link tilt system, remote IBOP actuator, and backup tong

Power VFD housing

Power and signal service loops; mast interface loops

Drilling control panel

Torque tube and torque carriage

Handling (transport) cradle

Auxiliary tools

Documentation

## Options

800-hp [595-W] power solution

Mud and cement hose

Wireline guide (bicycle)

Elevator links

Power incoming cable kit (from generator supply)

Dolly for dual rail system

Traveling block

Drilling hook

Elevator link hook

Saver sub that accommodates drillpipe from 2% to 6% in [60 to 168 mm]

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