The TD-1000-AC-2M top drive is a two-motor top drive designed to accommodate customer demands for an efficient and rigid top drive system for offshore drilling operations.

**Dependable service offshore**
The TD-1000-AC-2M top drive is designed for permanent installation at offshore drilling locations. Its engineering includes industry-proven components and high-fatigue-capacity materials, ensuring low maintenance requirements and long equipment life. Part replacement is quick and easy because of the top drive’s modular design. All maintenance and lubrication points are easily accessible and protected from collision.

**Simplified, safer operations**
The top drive also features a remotely operated control system that uses a customized PLC, facilitating smooth, natural, and comfortable operation for the operator.

**Expedited pipe handling**
Washpipe can be replaced within 5 min. The pipe handling systems include a high-capacity knuckle-link tilt system that enables handling the latest-model fail-safe elevator—from drilling to maximum kickout mode.

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoisting capacity, t (tonUK)</td>
<td>1,000 (893)</td>
</tr>
<tr>
<td>Maximum continuous torque, ft.lbf [N.m]</td>
<td>98,150 (133,000)</td>
</tr>
<tr>
<td>Maximum speed, rpm</td>
<td>275</td>
</tr>
<tr>
<td>Maximum makeup-breakout torque, ft.lbf [N.m]</td>
<td>115,000 (153,500)</td>
</tr>
<tr>
<td>Backup tong grab size, in [mm]</td>
<td></td>
</tr>
<tr>
<td>Minimum OD</td>
<td>4 (101)</td>
</tr>
<tr>
<td>Maximum OD</td>
<td>10 (254)</td>
</tr>
<tr>
<td>Power rating, hp [kW]</td>
<td>2,300 (1,715)</td>
</tr>
<tr>
<td>Water course pressure rating, psi [MPa]</td>
<td>7,500 (51.7)</td>
</tr>
<tr>
<td>Inside BOP (IBOP) pressure rating, psi [MPa]</td>
<td>15,000 (103.4)</td>
</tr>
<tr>
<td>Design code and standard</td>
<td>API Specification 8C (Product Specification Level 1)</td>
</tr>
<tr>
<td>Area classification</td>
<td>ATEX Zone 1, IIB, T3</td>
</tr>
</tbody>
</table>
High-capacity knuckle-link tilt system for handling the latest model of fail-safe elevator—from drilling to maximum kickout mode

Torque wrench that can handle tool joint OD sizes from 4 in to 10 in without changing die inserts

Washpipe that can be replaced within minutes

Rotary head with 18 ports

Ready integration with hydraulic elevators, pneumatic elevators, or both

Programmable arbitrary stop positions for the pipehandler rotate function, enabling the driller to set a number of predefined “elevator open” positions

No need for hammer or tools when replacing washpipe

Customized programmable logic control (PLC) software for simple, accurate, and natural operator controls from a single point

Noise reduction

Dual retention of all fasteners

Torque wrench design that eliminates risk of accidental breakout of drillstem subs

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

Scope of Supply

Top drive assembly with gearbox, S-pipe, AC drilling motor with Ingress Protection Standard 44 (IP44) enclosure, blower, drillstem subs, suspension system, weight-compensating system, rotatable pipehandler with knuckle-link tilt system, remote IBOP actuator, and torque wrench

Power and signal service loops

Control system, including PLC, onboard valve control unit, and derrick junction box termination kit

Handling (transport) cradle, including lifting sling

Auxiliary tools

Documentation

Options

Retractable or nonretractable dolly—specifically designed to fit existing guide rails

Elevator links for drilling, casing, or both

1,000-ton US traveling block (or traveling block adapter becket)

Riser running tool tilt system

AC drive package

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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