UltraHoist Drawworks System
UH 3G-1250-5600-DDW

Cameron’s UltraHoist™ drawworks deliver efficient hoisting and lowering during drilling, tripping and handling operations. All UltraHoist drawworks are AC and gear-driven. The three-speed version offers operational flexibility, both at high speeds and high loads.

The UltraHoist 1250-5600 is a fully-integrated drawworks system, designed to hoist and lower defined loads and velocities during tripping and drilling modes. The UltraHoist is designed for offshore installation and is centered on maintaining personnel safety and increasing equipment service life and long-term optimal performance through component selection and system design.

Main Features
- Three-speed transmissions used between AC motors and fixed speed gearbox provide unique fast line speed and pull characteristics
- Lebus grooved drum for 2” drill line – complete with kickback rollers and easily removable guards
- Easily removable cable anchor
- Control system interfaces with the Zone Management System via the C-NET network to enable communication with other system PLC, such as the anti-collision system
- Custom PLC software ensures smooth and natural operations for the driller
- Built-in, self-diagnostic functions automatically warn for service and overhaul of main components
- Onboard HPU systems for brakes and lubrications fitted with dual pumps and motors
- Remote-operated fast shift mechanism in the gearbox to avoid gear-shift problems and load-dropping
- Internal gearboxes use a keyless design to avoid stress configurations

Safety Features
- Fail-safe braking system comprised of two brake discs, one at each side of the drum, and two calipers with brake pads acting on each disc
- Braking capacity of the emergency brakes equal to 200% of maximum line pull
- Automatic brake monitoring system, including brake slip detection, drum creep detection and drum response detection
- Two separately fused emergency shutdown circuits
- Integrated crown and floor saver provides full control of the various braking systems
### Technical Specifications

<table>
<thead>
<tr>
<th>SI</th>
<th>Imperial (US)</th>
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<tbody>
<tr>
<td>Power rating drawworks duty</td>
<td>4180 kW</td>
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<tr>
<td>Maximum wire pull on 16 lines</td>
<td>1133 tonnes</td>
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<tr>
<td>Maximum fast line pull</td>
<td>87 tonnes</td>
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<tr>
<td>Maximum block speed on 14 lines</td>
<td>2.29 m/sec</td>
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<tr>
<td>Drum size (diameter x length)</td>
<td>1422 mm x 1905 mm</td>
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<tr>
<td>Design</td>
<td>API 7K drilling equipment, DNV-OS-E101 drilling plant</td>
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<td>Any third-party approval is available up on request</td>
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</tbody>
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### Area classification

Zone 1, IIB, T3

### Scope of Supply Options

- **Drawworks skid**: Foundation bolts
- **Drum and drum support**: Sound attenuation housing
- **Dual brake disks and calipers**: Forced air cooling system for AC motors
- **Single-speed gearbox**: Lifting spreader bar
- **Dual three-speed planetary transmissions**: AC drives
- **AC motors**: Operator’s control panel
- **Water to air cooling system for AC motors**
- **HPU for lube oil and gearshift system**
- **HPU for brake control system**
- **UltraHoist control system, including PLC with software as needed for safe and reliable control and monitoring of all drawworks functions**
- **Local control panel (for cut-and-slip operations)**
- **Block reset sensors**
- **Floor/crown saver sensors**
- **User manuals/documentation**

#### Hook Load and Speed Chart

* Calculations based on 16 lines, layer 2 over Lebus bar
** Motor speed limited to 2500 rpm
*** Hook load given is in lb, block speed in m/sec

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