The CHX model connector is an industry leader in bending load capacity. Mechanical engagement of the unlocking piston to the finger segments, a 27% higher unlocking force to locking force, and a secondary unlocking piston ensures full release of the connector segments from the wellhead. A wide variety of option features including top connection, gasket control features, porting types, and corrosion prevention measures, provide flexibility to meet customer satisfaction.

**Standard Features**
- Industry leading bending and tension capacity
- Unlock force 27% greater than locking force
- Load path directly through self locking segments
- Secondary unlocking piston for increased detachment reliability
- Two visual piston position indicator rods that engage with the annular piston to ensure an accurate reading. Both with life cycle grooves for easy connector life wear inspections
- Hydraulic and spring operated gasket retention pins
- Hydraulic gasket release pins
- Inconel insert on all sealing surfaces
- Weep hole porting for quick testing validation
- ID running tool alignment slots
- Molded, bi-directional T seals with dual polyurethane backup extrusion protection
- Wear band protection against piston cylinder galling

**Available Options**
- CREP level packages
- Detachable WLHD funnel down assembly
- Various API top flange connections
- Multiple gasket control feature configurations
- Various hydraulic porting connection types
- Adapter kit which allows for a 27" H4 locking profile

**Other Benefits**
- Key Surface coverage on locking profile allows for higher pre-load without damaging wellhead / mandrel
- Lead in alignment that eliminates potential gasket contact when landing on the wellhead
- Design flexibility with integrated stack controls

**CHX-1530 Technical Specs**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Bending Load Capacity</td>
<td>17.0 MM ft-lbs</td>
</tr>
<tr>
<td>Pure Tension Load Capacity</td>
<td>16.5 MM lbs</td>
</tr>
<tr>
<td>Preload</td>
<td>4.64MM lbs</td>
</tr>
<tr>
<td>Locking Volume</td>
<td>14.9 Gal</td>
</tr>
<tr>
<td>Unlocking Volume</td>
<td>18.9 Gal</td>
</tr>
<tr>
<td>Max Service Pressure</td>
<td>15,000 psi</td>
</tr>
<tr>
<td>Max Hydraulic Operating Pressure</td>
<td>3,000 psi</td>
</tr>
<tr>
<td>Stack Up Height</td>
<td>19.88 in</td>
</tr>
<tr>
<td>Swallow Height</td>
<td>26.37 in</td>
</tr>
<tr>
<td>Weight</td>
<td>24.700 lbs</td>
</tr>
</tbody>
</table>

**CHX WLHD Connector Overview**

- **Design Validation Testing**
  - Sealing Mechanism (Wellbore Shell)
  - Tension / Bending Capacity
  - Seal Life Cycle Fatigue
  - Piston Displacement
  - Hub Separation
  - Stack Pull (Gimbal) Simulation
  - Vibration Simulation
  - Locking Relationship Validation
  - High & Low Temperature Testing
  - Function Life Cycle Fatigue
  - Friction Validation

- **Low Temperature Test**

- **Other Benefits**
  - 92% Surface coverage on locking profile allows for higher pre-load without damaging wellhead / mandrel
  - Lead in alignment that eliminates potential gasket contact when landing on the wellhead
  - Design flexibility with integrated stack controls

- **Bending Test Fixture**

All values are preliminary and are subject to change. Full capacity values are based on FE and will be confirmed with testing.