The HMC 2806 LKO 260-13 (130-16) AHC Active Heave Compensated Offshore Knuckle Jib crane is a reliable and effective crane for general offshore and subsea load handling from ships and offshore units. The crane is designed for efficient and accurate general load handling including semiautomatic subsea launch/retrievals at depth up to 600 meters. The working radius is a function of the luffing and Knuckle Jib position. The Knuckle Jib solution reduces the wire pendulum, the risk of damage caused by swinging loads is then reduced. The stowing dimension for a Knuckle Jib crane is also far more compact than a normal luffing jib crane with same outreach.

The crane is equipped with a pure Active Heave Compensation system compensating the resulting vertical heave motion at crane jib tip by means of a powerful computer system and a high speed winch system. A Motion Reference Unit is measuring the actual vessel motion calculating a resulting heave motion at crane tip and based on this the control system operates the winch to compensate the resulting heave.

The crane has in its standard version a built in electro-hydraulic power unit and a well equipped maneuvering cabin on side of the rotating part of the crane. The crane is as standard delivered as a complete, self-contained unit, fully tested and approved. Installation to vessel is extremely simple. It is only required to weld or bolt pedestal to deck structure, fill hydraulic oil and connect electric power supply from vessels electric system. The crane is then ready for operation.

The crane is certified by DNV as an offshore crane and can be delivered with other class certificates upon request.

**Standard equipment:**
- Built in electro hydraulic power unit
- Built in high speed winch unit
- Integrated control system with large touch screen based user interface.
- Pedestal for welding/bolting to deck
- Galvanized wire rope
- Centralized lubrication system
- Stainless steel hydraulic pipes
- Space heater in electric motors
- Flood and indication lights
- Built in El. motor starter cabinet

**Optional equipment:**
- Increased pedestal height
- Increased lifting height
- Remote control system (cable or cordless)
- Intermediate and top coat paint

**ACTIVE HEAVE COMPENSATED OFFSHORE KNUCKLE JIB CRANE**

**HMC LKO**
HMC LKO

Main dimensions

Range and equipment

The HMC LKO Active Heave compensated Knuckle Jib cranes are available with single line lifting capacity up to 75 tons and outreach up to 45 meters in both standard and tailor made versions. A comprehensive range of equipment such as various deck interfaces, operators cabins, remote control systems etc. are available upon request.

Main technical data

<table>
<thead>
<tr>
<th>Safe Working load:</th>
<th>26 tons single line at max 13 m outreach</th>
<th>Hoisting speed, 13-26 ton: 0-120-60 m/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 tons single line at max 16 m outreach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic factor:</td>
<td>2.0</td>
<td>Slew sector: 360 degrees unlimited sector</td>
</tr>
<tr>
<td>Minimum working radius:</td>
<td>3.6 m</td>
<td>Max trim/list: 5+2 degrees</td>
</tr>
<tr>
<td>Hook travel:</td>
<td>600 m</td>
<td>Slew speed: 0-1.0 RPM</td>
</tr>
<tr>
<td>Hoisting speed, 0-13 ton:</td>
<td>0-120 m/min</td>
<td>Luffing speed: 40 s</td>
</tr>
</tbody>
</table>

Active Heave Compensation data

| Max load under AHC mode: | 26 tons single line |
| Min load under AHC mode: | 0 tons (Empty hook) |
| Nominal heave motion: | +/- 3.5 m |
| Max heave stroke: | No limit (Winch system) |
| Max AHC winch speed: | 2.0 m/s |
| Max AHC acceleration: | 1.8 m/s^2 |

Local representative

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