

# Seahawk cement unit 1600 BHP AC electric

## Available Options

- Fully remote control
- DNV/ABS/NORSOK/CE certifications
- Acoustic attenuation to 85 dBA
- Automated liquid additive system (ALAS)
- Remote pressure testing
- Air or Seawater cooling system
- Automated foam cement capability
- Batch mixing systems

## Features and Benefits

- Minimizes NPT with reliable twin-pump design
- High horsepower capabilities
- High energy mixing system delivers homogeneous slurries
- Near dust free environment
- Unit can be disassembled to fit through openings as small as 5 x 7 ft
- Provides 100% redundancy
- Controls, monitors, and records job parameters for online, post-job analysis

The Baker Hughes **Seahawk™ offshore cementing unit** provides reliable, automated mixing and pumping operations and reduces health, safety, and environmental risks.

## Health, Safety, and Environment

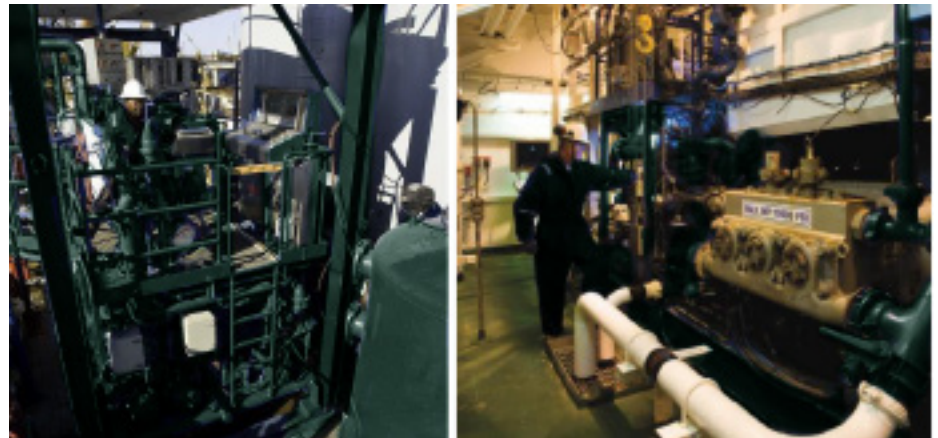
The **Seahawk™ cementing system** was designed with HSE as one of the guiding principles.

- Operators are isolated from high-pressure components and manifolds
- Fewer exposed rotating parts
- Near dust-free mixing environment
- Control panel location minimizes exposure to noise, vibration, and high-pressure components

The **Seahawk™ is a dual skid mounted cement mixing and pumping unit**

that can be divided separate sections to simplify installation on offshore. The unit is rated to 1360 hydraulic horsepower (HHP) and capable of working pressures up to 15,000 psi (1034 bar). The unit is comprised of a dual independent system driven by GEB22A electric motor, through Allison 6620M transmissions, driving the pacemaker pump.

The ACC (automatic cement control) II mixing system provides density control and slurry consistency within  $\pm 0.1$  ppg, and densities up to 21 ppg (2.5 sg). The unit can achieve maximum pumping rates as high as 20 bpm, and 12 bpm slurry rates.



## Offshore Module Skid

### Applications

Offshore Cementing Harsh Environments

Deepwater Pressure Testing

### Features

### Benefits

High Pressure Pumps	<p>Two pacemaker pumps</p> <p>B side 3.5 in. plungers (15,000 psi MAWP)</p> <p>C Side 4.5 in. plungers (10,000 psi MAWP)</p> <p>Alternate plunger arrangement available, and able to change out in 2 hrs</p>
High Horsepower Powertrain	<p>Two GEB22A Electric Motor 800 BHP each</p> <p>VFD Driven</p> <p>Air cooling optional</p>
Transmission	Allison 6620M Series
Mixing System	<p>Three mixing system options:</p> <ul style="list-style-type: none"> <li>• 7 BBL Standard mixing system</li> <li>• RAM mixing system (7 bbl primary, with 18 bbl averaging)</li> <li>• Dual mixing system (twin 7 bbl mixing tubs)</li> </ul> <p>Four Goulds centrifugal pumps – 2 mixwater, 2 slurry</p> <p>Liquid Volume Fraction mixing mode for lightweight mixing</p>
Instrumentation	<p>MCM2000 mixing control system</p> <p>Automatic cement control (ACC) for precise control <math>\pm 0.1</math> pgg</p>
Skid	<p>Modular for installation ease.</p> <p>Total Weight: 27.5 MT 25.5 ft L x 8 ft or 10 ft W x 12.5 ft H</p>

