PCM is a pioneer in the development of Progressing Cavity Pump technology, and specializes in fluid handling solutions in upstream Oil & Gas.

Our unique Deepwell Process Pumps are designed for a variety of FPSO applications.

**ADVANTAGES:**

**Simplicity:**
- Low rotational speed
- No shaft line bearings
- No shaft line lubrication required
- Simple alignment (no need for laser or dummy pieces)
- Tolerance to hull deflection
- High integrity sealing

**Low Operating Cost:**
- Low wear
- High system efficiency
- Low energy
- Ease of maintenance

**APPLICATIONS**

**Oil & Water Processing**
- Crude Oil
- Produced Water
- Separator Feeding
- Emulsions
- Slops
- Rich MEG

**Auxiliary fluids:**
- Viscous Polymer
- Raw Diesel
PERFORMANCE COMPARISON:
A reliable and commercially attractive alternative to conventional centrifugal pumps, for challenging Process related duties.

<table>
<thead>
<tr>
<th>Ability to transfer viscous fluids</th>
<th>Centrifugal Deepwell Pump</th>
<th>PCM Deepwell Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insensitive to viscosity changes</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Low shear To limit emulsion/mechanical degradation</td>
<td>•</td>
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<tr>
<td>Ease of control Across a wide range of flowrates &amp; pressures</td>
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<tr>
<td>Ability to handle suspended solids</td>
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<tr>
<td>Overall efficiency</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Operating speed</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>NPSHr (Resistance to cavitation)</td>
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</tbody>
</table>

ENGINEERING SERVICES:
- Customisation to Oil & Gas client specifications
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)

INTERVENTION SERVICES:
- Installation supervision
- Pre-commissioning support
- Top retrieval or in-tank service
- Commissioning support
- Onboard inspections and training
- Routine maintenance contracts
- Bosiet certificate