

DEEPWELL PUMPS FOR FPSO'S

PROGRESSING CAVITY PUMP SOLUTIONS

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.

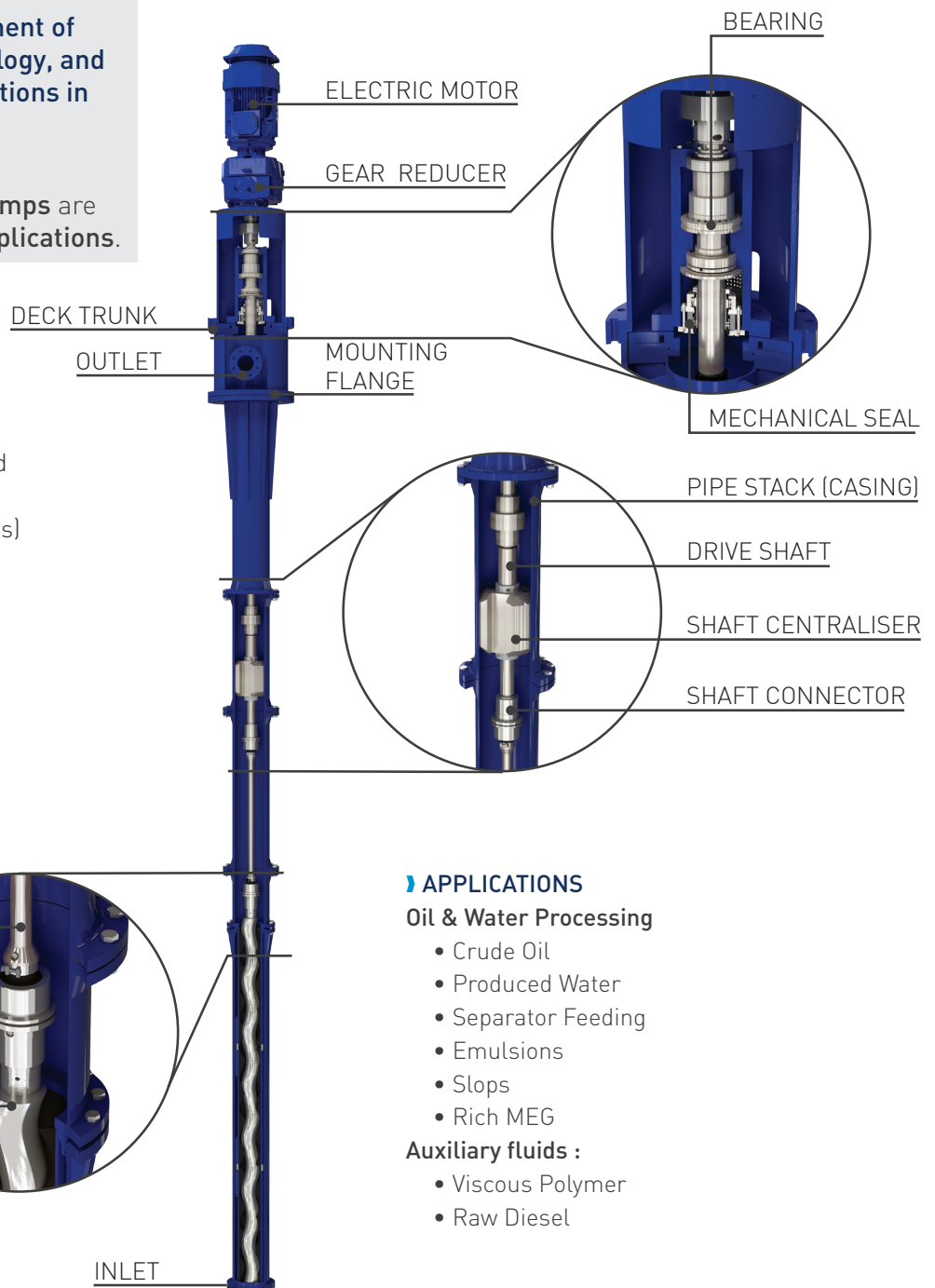
ADVANTAGES :

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



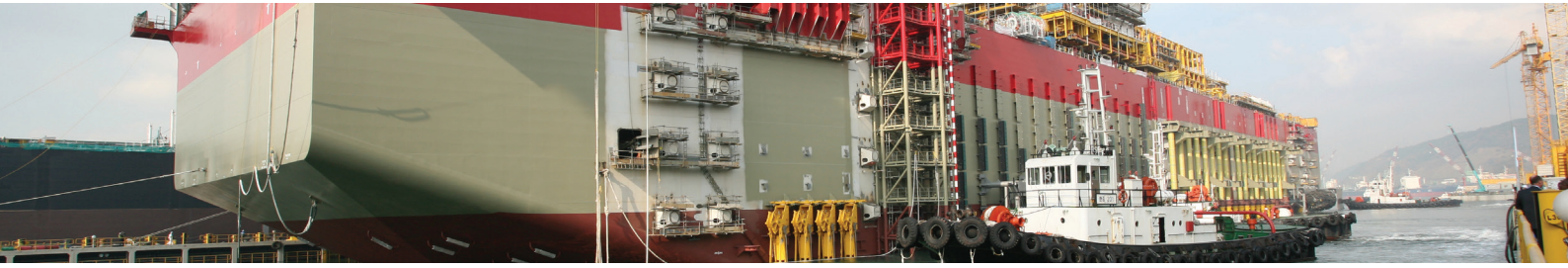
APPLICATIONS

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.

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



SERVICE PACKAGE SURROUNDING THE PCM DEEPWELL PUMP :

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

PCM TROIKA™ DEEPWELL RANGE :

