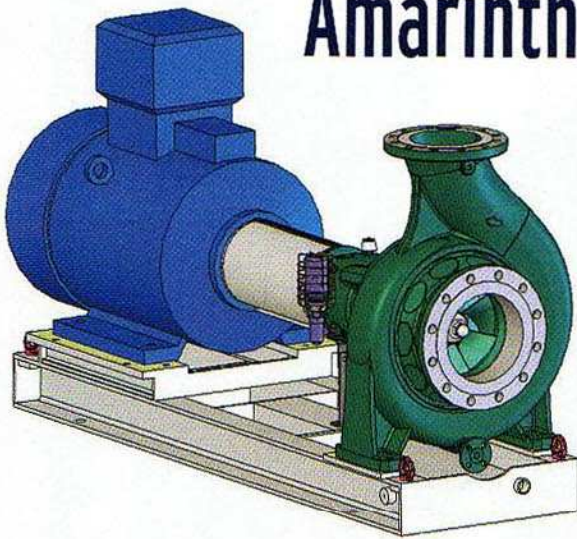
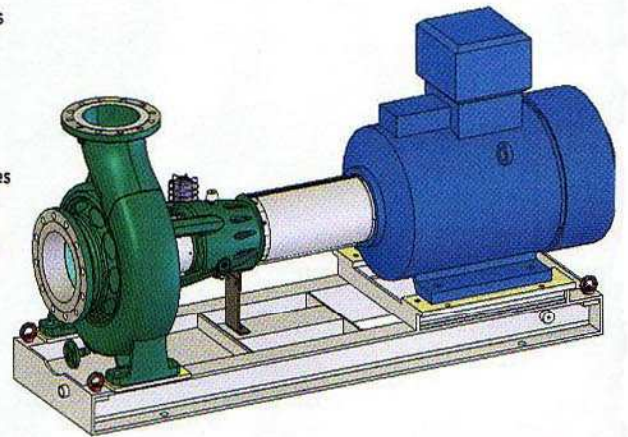


# Amarinth designs pumping solution for North Sea FPSO vessel



The design work was undertaken using Amarith's suite of computer-aided engineering applications. This allowed customer specification changes to be absorbed into the design without adversely impacting lead times.



Amarinth has won a significant order to supply 10 bespoke pumping units to be installed on the Amerada Hess Corporation operated Triton Floating, Production, Storage and Offloading (FPSO) vessel located in the North Sea.

The pumps are a critical part of the filtration system being installed by Aberdeen based Wood Group Engineering (North Sea) Ltd, a large Engineering, Procurement & Construction firm that provides a range of services to Amerada Hess. This system will filter and treat produced water prior to discharge so that it meets the pending OSPAR regulatory changes, due in this year, that target reductions in the amount of oil released into open water in the North Sea.

Wood Group was evaluating various pumping solutions for the Triton project when it engaged specialist pump supplier Kinder-Janes Engineers. After careful consideration of the

technical and commercial requirements, Kinder-Janes submitted an offer for Amarith pumps. The final design is a hybrid that is based on Amarith's 'C' series heavy duty ISO 5199 chemical pumps, but which incorporates up-rated API 610 bearing brackets.

The pumps will be fitted with sophisticated 'upstream pumping' (USP) mechanical seals manufactured by John Crane. The seals utilise seawater to provide a supply of cool, clean buffer fluid to the seal faces to ensure reliable operation on this abrasive media.

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## Powerpacks for a wide range of applications

Hydraproducts' hydraulic powerpacks are for use in a wide range of applications including industrial, mobile, materials handling and mobility. The company's product range includes a reversible Micro Power pack (HPR). This model is compact (90mmsq) and requires no additional valves to operate a double acting cylinder or motor. With motors of 12,24VDC up to 800W and 110,240VAC up to 250W the HPR can produce pressures up to 180bar and flows up to 5LPM. Hydraproducts also offers a uni-directional Micro Power pack (HPU) alternative.

The company's Mini Power pack (HPM) range is modular in construction, and models are designed for industrial and mobile applications below 5.5kW. With gear pumps from 0.17cc/rev to 8.8cc/rev the flows are up to 30lpm. Motors are 12 and 24VDC up to 3kW and AC (1ph and 3ph), and to 5.5kW pressures up to 300bar. Flows are from 0.3lpm to 30 lpm.

Reservoirs in thermoplastic up to 10 litres have been developed for the mobile market, together with a range of handset controls. This makes this range particularly competitive in Tipper and Taillift

applications. For the Industrial market a heavy duty standard range of steel reservoirs is available up to 18 litres, together with a stackable range of CETOP03 valves manifolds. Hydraproducts is also able to construct more complex systems for applications such as plastics M/C, compactors/balers, access cranes and security bollards.

Where powers above 5.5kW are required, Hydraproducts can build conventional (bellhousing and coupling) type powerpacks.

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## Staff motor range offered by Antech

UK distributor Antech offers a range of motor options by Staffa. For example, Staffa's HMB series of single displacement hydraulic motors is the motor of choice for many industries including plastic injection moulding, mining and tunnelling machinery, marine winches and steering systems as well as chemical and nuclear mixing systems. Various displacements

are available for each size of motor. Standard options include high pressure shaft seals and case pressure relief valves; various displacements for each size of motor; marine paint specifications; and stainless steel shaft sleeve.

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