



press release

**FOR IMMEDIATE RELEASE – 1 March 2021**

## **Amarinth delivers titanium pumps to VWS Westgarth for two FPSO vessels in Brazil**

**Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment to the Oil & Gas, petrochemical, LNG, chemical, industrial, power and desalination markets, has delivered an order of titanium pumps to VWS Westgarth that will be installed on two Petrobras FPSOs operating in Brazil.**

The order of four pumps from VWS Westgarth, the largest single supplier and operator of sulphate reduction membrane systems, was for chemically enhanced backwash pumps to be installed aboard two Floating Production Storage and Offloading (FPSO) vessels operated by Petrobras off the coast of Brazil.

The pumps are ATEX certified for hazardous areas and incorporate auto start stop modules for unattended operation. To handle the highly corrosive fluid, all wetted parts of the pumps are manufactured in titanium, including the casings, impellers and shafts. Titanium is a difficult material to work with and must be cast under a full vacuum using copper crucibles to prevent the molten titanium attacking the crucible walls. The UK has one of only a few foundries in the world with the capability to cast large titanium components. Amarinth worked closely with this UK foundry to ensure an optimum design for the castings to maintain the correct flow of the molten titanium over changes of dimensions and directions.

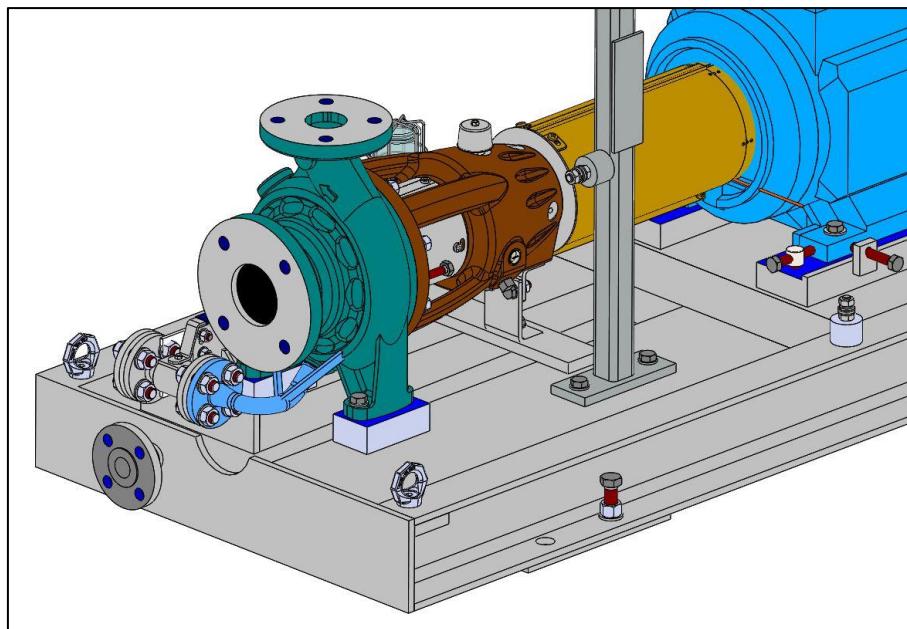
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Furthermore, Amarinth had to deliver the pumps to a tight 28-week deadline amidst the Covid-19 pandemic. Amarinth saw the scale and potential impact of the Covid-19 pandemic early in the outbreak and quickly leveraged its engineering and commercial agility and investment in remote working technologies to make the necessary changes to its business model, ensuring the company could work with its customers and suppliers to maintain critical on time delivery of pump orders.

Despite the engineering challenges, compounded by the Covid-19 pandemic, Amarinth's strong relationship with its supply chain, and the Covid secure working practices it put in place, enabled the company to design, manufacture and deliver the pumps to meet the 28-week deadline for the project.

Oliver Briggshaw, Managing Director of Amarinth, commented: "We are delighted to be supplying these pumps to VWS Westgarth. This order once again underlines our expertise in providing high-quality reliable pumps designed to meet the arduous conditions aboard FPSO vessels, along with our world leading capability in designing and manufacturing titanium pumps. With the changes we made to our business model early in the Covid-19 pandemic, we have been able to maintain our enviable on-time delivery record, not only for this order but to all of our customers over this past year."

### OPTIONAL PANEL or BOX ITEMS



3D CAD model of an Amarinth titanium pump being designed for VWS Westgarth  
to be installed aboard an FPSO vessel

**NOTES TO EDITORS:**

Founded in 2002, Amarinth has harnessed the skills, creativity and passion of people who have worked in the pump industry for many years. Amarinth delivers world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment to ISO, ANSI & API standards, primarily for the Oil & Gas, petrochemical, LNG, chemical, industrial, power and desalination markets. The company's portfolio includes:

- **Pumps:** Horizontal and vertical API 610 pumps, chemical and industrial pumps, many of which are interchangeable with the Girdlestone pump ranges, eliminating the need for expensive modifications when replacements are required.
- **Pressure Vessels:** Protect System Plan 52 and 53A and 53B sealant systems with inbuilt condition monitoring for pumps and mixers that are suitable for Safe area up to Zone 1.
- **Spares & Service:** High quality, fast lead time re-engineered spare parts to improve performance and extend pump life, including many which are directly interchangeable with the Girdlestone pump ranges.
- **Packages & Modules:** Condensate Recovery Units manufactured for Spirax Sarco incorporating the innovative Ci-Nergy intelligent variable speed control system, plus bespoke packages & skids built to order.
- **Business Systems:** state-of-the-art e-commerce technologies that deliver 24/7 support enabling customers to select pumps and place orders on-line and then track every stage of manufacture through to delivery, any time, anywhere in the world.

The company operates globally from its base in Rendlesham Suffolk, United Kingdom and has a customer base of world-leading companies, including BP, Shell, ExxonMobil, GlaxoSmithKline, Pfizer, Spirax Sarco, Diageo, AMEC, Fluor and Halliburton.

**For further information, electronic copy or photos contact:**

**Comment:**

Alex Brigginsaw  
Commercial Director  
Amarinth Limited  
Bentwaters Park  
Rendlesham  
Woodbridge IP12 2TW  
United Kingdom

Tel: +44 (0)1394 462131  
Mobile: +44 (0)7703 681821  
[Alex.Brigginshaw@Amarinth.com](mailto:Alex.Brigginshaw@Amarinth.com)

**Media Relations:**

Phil Harland  
B6 Solutions Limited  
29 Swan Drive  
The Wharf  
Aldermaston  
Reading RG7 4UZ  
United Kingdom

Tel: +44 (0)118 971 3271  
Mobile: +44 (0)7880 748380  
[Phil.Harland@B6solutions.com](mailto:Phil.Harland@B6solutions.com)

Amarinth can also be reached on its website: [www.amarinth.com](http://www.amarinth.com).

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