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**Eight week delivery of variable speed pumps by Amarith helps
Pura Foods cost-effectively manage expansion project**

Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment to the Oil & Gas, petrochemical, chemical, industrial and renewable energy markets, has won an order for six variable speed pumps from Pura Foods to pump vegetable oil in increasing volumes for its new process facility.

When Pura Foods, a leading manufacturer and supplier of edible oils and fats and long-time Amarith customer, was looking to add new production capacity to its vegetable oil processing at its Erith plant in Kent, UK, it turned to Amarith to help deliver a solution that would enable the company to expand cost-effectively as volumes increased.

The expansion project required increasing volumes of vegetable oil to be offloaded from road tankers into the storage facility. At the outset volumes would be low but were forecast to grow in a controlled way and so the pumping solution had to scale with the volumes, working cost effectively from day one and requiring no further installation as volumes increased. Furthermore, the facility had to be on-line in a matter of eight weeks, half that usually required to design and manufacture bespoke pumping solutions such as this.

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As an existing customer of Amarith, it also made good business sense that any solution would have spares interchangeability with the existing pumps on-site and so Amarith based the solution on its proven C-series ISO 5199 single stage centrifugal end suction process pump. Working with its well-established supply chain of foundry and component suppliers to manufacture and supply on very short notice, Amarith was able to ensure that the tight eight week time-scales set by Pura Foods could be met for the commissioning of the six pumps.

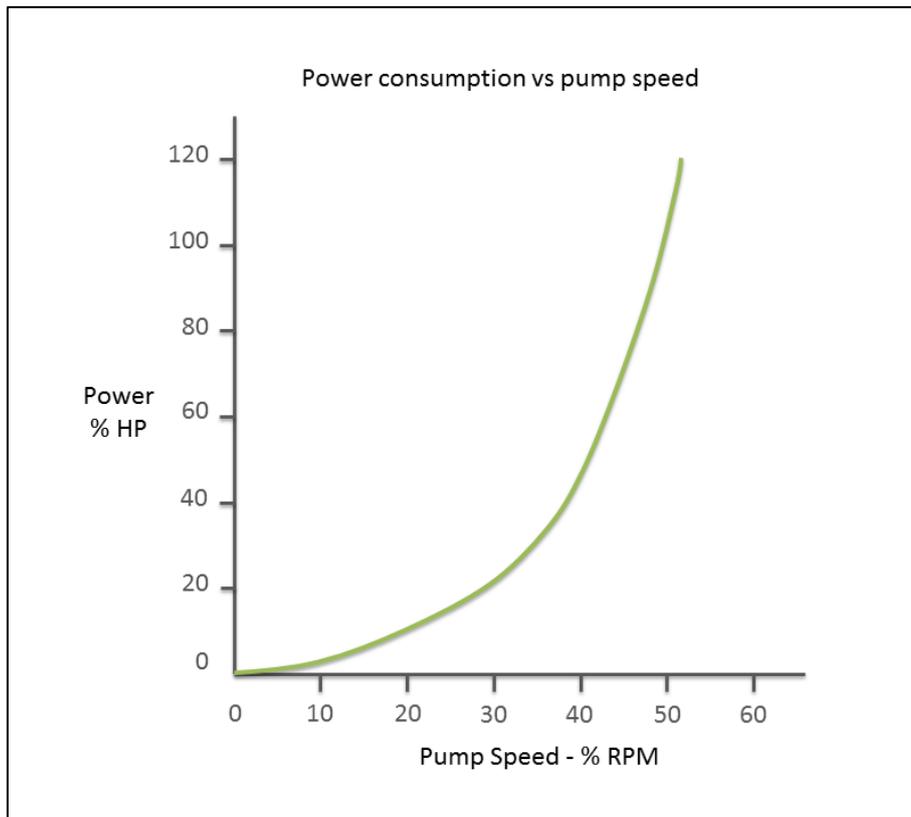
Amarith then turned its attention to the Pura Foods requirement that the pumps had to work with low volumes at the outset, run efficiently and be able to increase to full capacity as and when needed. The solution was to use Amarith's variable speed drive technology which adjusts the speed of the pump motor between 10Hz and 50 Hz to match the required flow rate at any one time. Using variable speed technology in this way has the added benefit that as the motor is slowed then power consumption is reduced, effectively increasing efficiency. This is even more marked at the lower flow rates that Pura Foods required initially as power consumption is proportional to the speed cubed. This means that running a pump at for example 30Hz (instead of the usual 50Hz) results in a massive 78.5% drop in power consumption. Using the Amarith variable speed drive, the pumps at Pura Foods were able to run extremely efficiently from the outset whereas traditional solutions would have cost them dearly in inefficient energy usage until such time as full capacity was reached.

Oliver Briggshaw, Managing Director of Amarith, commented: "We are delighted that Pura Foods once again turned to Amarith for this bespoke solution underlining our strength in the industrial pump marketplace. The timescales were very tight but with our strong supply chain we were able to meet the commissioning dates whilst delivering an energy efficient and effective solution that will meet Pura Foods immediate and long-term needs without any future changes or costs."

OPTIONAL PANEL or BOX ITEMS



Amarinth variable speed pump destined for Pura Foods



Power consumption cubes as pump speed increases

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 industrial, chemical & petrochemical markets. Their 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 I.
- **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.

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