



Mobile plant hire saves money

ELGA Process Water's Aquamove mobile water treatment solutions team is reported to have reduced maintenance downtime and increased revenue at Lakeside EFW, a major energy from waste plant at Colnbrook near Slough. Each year the facility incinerates 410,000t of waste and exports 34MW of electricity to the National Grid.

Lakeside EFW uses waste fired boilers generating 45bar

steam to drive a turbine. When a boiler is drained for routine maintenance it has to be refilled with demineralised water; with a limited flow from the make-up water demineralisation plant, this would take about three days – days of lost generation.

This is where the Aquamove MOFI 35m³/h mobile plant comes in. Martin Rogers, EHS Manager at Lakeside EFW, explains:

“Hiring in the MOFI mobile unit means that we can get the boiler up and running in less than a day, and the increased generation revenue more than covers the hire cost. An Aquamove engineer can be deployed, together with the necessary equipment, fittings and documentation within two hours of a call, and that's reassuring.”

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PUMPS ARE IN FOR A TESTING TIME

Having used one of Sensor Technology's novel TorqSense non-contact torque sensors as an aid to product development for many years, peristaltic pumping specialist, Watson-Marlow, has now chosen another of the versatile sensors for production-line testing of its critical products.

The TorqSense sensor was selected for this demanding application because of its ease of use and the reliability and accuracy that has been consistently demonstrated by the similar unit in use in the development department.

A key element of pump testing prior to despatch is the determination of the relationship between the operating torque of the pump and the



flow rate it delivers. In order to be able to measure this, a torque sensor that will deliver accurate and reliable results over long periods without adjustment or maintenance is needed. These requirements, can be met conveniently by using a sensor from the Sensor Technology TorqSense range.

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ELECTROLESS PLATING LINE

Specialist plating equipment designer and manufacturer, **Plasticraft**, has completed the installation of a highly sophisticated electroless plating line that is meeting the specific needs of industrial print head manufacturer, Xaar. The equipment, installed at Xaar's Huntingdon manufacturing facility, fulfils a number of key processing requirements – not least the need to operate within a clean room manufacturing environment.

The Plasticraft system comprises a fully enclosed process line dedicated to the electroless plating of Xaar's X1001 printer head, which is installed on printers.

Featuring 1000 individual nozzles, the plating, onto a ceramic substrate, has to achieve stringent parameters in terms of consistency and thickness – a coating of just a few microns, for example, is required.

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WHOLE PACKAGE HELPS DRIVE WIND TURBINES

Siemens wind turbine technology is helping Harbon Wind Turbines offer increased reliability in its wind turbines. The Doncaster-based manufacturer supplies units with rated power of around 60kW to farmers and small businesses with relatively low energy requirements.

The company approached Siemens Mechanical Drives about gear units and generators just over a year ago, since when Harbon has



built a 60kW trial turbine unit and a number of 55kW units using Siemens products at the heart of the drive system. The gear unit is a low noise

Flender FZA 188B K4 with in-line Siemens motor and shaft directly beneath.

Chris Harbon commented: “Being able to obtain gearbox and motor from a single supplier is also very important to us. We like the whole package – support, technical knowledge, the fact that it's a technically advanced unit; all these factors matter to us and help us develop our own business.”

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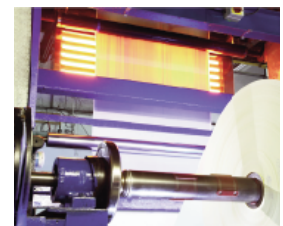
Carbon infrared heating system

A carbon infrared heating system from **Heraeus Noblelight** is reported to have enabled Smith & McLaurin to more than double line speed and improve quality on one of its paper coating lines.

One of Smith and McLaurin's products requires a water-based adhesive to be

applied to high value stock before a laminate is applied to the adhesive. Previously, the adhesive was dried in a warm air oven but this sometimes caused problems when drying coloured adhesive.

To solve the problem Heraeus installed a 32.5kW infra-red heating system equipped with five carbon medium wave emitters immediately before the existing warm air heaters. The



emitters are individually controlled so that they can be switched on and off according to the coating weight.

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