



Bespoke IT system installed

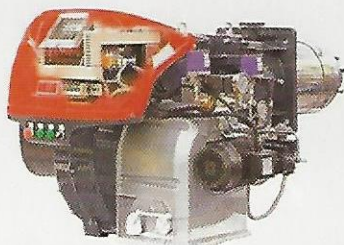
Industry-specific software from **CSB-System** is enabling Polish turkey meat specialist **INDROL** to effectively manage production and deliver cost savings, while ensuring quality assurance is maintained to the highest standards.

INDROL develops its processes in accordance with QA certification standards such as HACCP and BRC. On receipt of materials, an extensive inspection begins and continues from goods receiving through

production to finished products and picking. Using the CSB-System, all areas have information and control points controlled within the software, enabling quality data to be captured at point of origin. Data can be easily retrieved for analysis.

The software provides integrated functionalities for slaughter planning, slaughter, meat inspection, grading and data assessment. Data can also be used for vendor assessment.

Tel: +49-2451 625430



Low NOx burner

Riello has introduced low NOx (<80mg/kWh) 'blue flame' versions to all sizes of its RS range of burners. This is achieved through the use of a low NOx combustion head to ensure emissions conforming to EN 676 Class 3 in capacities from 3600 to 6250kW.

The RS series of high-power monoblock burners is characterised by the advanced technological developments that have contributed to its design and energy-efficient performance, delivering high power levels whilst minimising size and weight. Dual fuel RLS low NOx models will follow, featuring a dedicated pump motor to ensure a long life for the oil pump, combined with energy-savings.

RS models 310, 410, 510 and 610 are available in various air-fuel ratio control configurations, with the option of mechanical cam or electronic cam for modulation control. VSD technology ensures low noise, and electrical power savings.

Tel: 01480 432144

Wipes offered in handy pocket packs

Industrial strength wipe specialist, **Sycamore UK** says it has harnessed its 4x4 formula in compact sachet packs of 40 wipes which are designed to fit into the tool pouches of most workwear brands, van glove boxes and toolbags.

The company says just because they're compact, it doesn't mean you lose the size: sachet packs are as big as those used in the company's yellow tubs (20 x 30cm). The wipes stay just as hydrated as they would in a tub, due to the self-adhesive seal.

Big Wipes 4x4 shift all modern construction sealants, PU foam, adhesives, paints, coatings and



grime. They contain four powerful cleaning agents that are tough on grime, and four dermatologically tested skin conditioners to nourish and protect the skin. They also offer a >99.9% antibacterial protection.

Tel: 0845 680 0884

New drives boost reliability

A steel maker is improving the reliability of its roller table by retrofitting four **ABB** variable speed drives (VSDs)

The roller table has 80 rollers to transport finished steel billets at **Celsa Manufacturing's** plant in Cardiff. Each drive controls four banks of 20 roller motors.

Celsa's electrical engineer, **Nicholas Drane**, explains: "The existing drives could not be interrogated to discover what they were doing or what condition they were in. It was also getting difficult to source spares for them."

As a trial, **ABB** authorised value provider, **APDS**, installed an **ABB** general purpose drive, **ACS550**. "We were keen to know that the solution worked before we made major



changes to the cabling," says Drane. "APDS installed a drive as a temporary measure. Once we were satisfied, APDS installed the permanent drive over the shutdown period so there was no disruption."

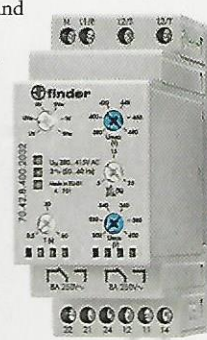
"Although the main objective of the project was not energy saving, we estimate that Celsa will be saving in the region of 30% on its energy costs for this drive," says **Doug Pitt** of **APDS**.

Tel: 01925 741 111

Monitoring module

With increasing health and safety demands and the need to protect valuable equipment, **Finder's** new 70.42 3-phase, multifunctional monitoring relays offer maximum flexibility in monitoring a range of electrical supply parameters in compact, easy to adjust units at a competitive price.

This relay is suitable for monitoring supplies to machinery,



equipment, and installations where failure or variation outside acceptable limits may result in damage to equipment, danger to personnel, or disruption to critical

processes or procedures.

Able to monitor supply voltage within adjustable limits in six selectable modes (Under-voltage, Over-voltage, Window—with or without Memory option), the unit also responds to out-of-limit Phase Asymmetry, incorrect Phase Sequence, and both Phase and Neutral loss.

Tel: 01785 818100

Laser gas analyser

Quantitech launched a new range of process gas analysers based on tuneable diode laser absorption spectroscopy (TDLAS).

Keith Golding, **Quantitech MD**, says: "Whilst these instruments are new to the UK and Ireland, the manufacturer - **Focused Photonics Inc (FPI)** - has an installed base of over 8000 instruments, so this is a well-established technology and we are delighted to have been given exclusive distribution rights for our territory."

"By using 'single-line' spectroscopy, the Laser Gas Analyser (LGA) range can be configured for continuous analysis of a number of compounds, with an enormous dynamic range (ppm to %) without interference."

Typical applications include ammonia slip control, HCl measurement for sorbent injection optimisation, furnace oxygen, flue gas monitoring in FCC catalyst regeneration, trace H₂S and H₂O in natural gas, H₂S measurements in sulphur recovery, cross-duct CO monitoring for electrostatic precipitator safety, and many others.

Tel: 01908 227722





Welding inverter

New from Jasic, the Pro MIG 450 and Pro MIG 350 multi-process separate IGBT welding inverters offer advanced control circuitry and a reliable performance for MIG, MMA and Lift Arc welding applications. Wilkinson Star is UK importer of Jasic welding and industrial equipment.

See page 63

Critical protection for nuclear plant

Sensonics has delivered machinery protection systems for the Barakah Nuclear Power Plant project in the United Arab Emirates. Following a two-year design and production phase, 92 Sentry G3 4-channel protection modules and more than 300 channels of vibration analysis across three cabinets, are undergoing commissioning.



See page 43

Drive technology

A new generation of drive technology has been developed by Mitsubishi Electric for its latest pump and fan inverter. The FR-F800 combines energy savings with optimised speed control, simple start-up and connectivity. It is designed to be used predominantly with pumps and fans but is equally suitable for compressors and HVAC applications.

A range of functions



ensure accurate control, while achieving energy efficiency figures of 98%.

There are initially six units in the series, three covering the 200 to 240V range from 0.75 to 110kW and three in the 380 to 500V range from 0.75 to 630kW.

See page 73



University role

When the University of Birmingham needed to replace the flooring in the workshop of its School of Physics and Astronomy in Edgbaston, it turned to Ecotile for a solution.

Ecotile installed 275m² of 7mm tiles in dark blue over two days. Then, once heavy equipment such as large CNC machines, had been manoeuvred into place, the fitters returned to cut around the feet.

See page 92

Fixed-point gas detectors

Crowcon Detection Instruments' XgardIQ is an intelligent and versatile gas detector and transmitter compatible with Crowcon's full range of sensor technologies.

It is available fitted with a variety of flammable, toxic or oxygen gas sensors or may be installed with a remote sensor housing up to 15m from the transmitter.



See page 100

Diary date

The Advanced Engineering UK event returns to the NEC on 4th and 5th November.



See page 64

Water packages

Veolia Water Technologies has launched a new generation of its Orion skid-mounted pharmaceutical purified water packages. Orion is fully compliant with FDA, cGMP and GAMP requirements and meets the water quality standards for USP and PhEur Purified Water and PhEur Highly Purified Water.



See page 17



Free with this issue of IP&E comes a supplement devoted to Handling & Storing in industrial and warehousing environments. It contains a mix of features, case studies and details of new products and services.