

# Metal Detection Solutions

## Support Superfood Success



**The Bury Black Pudding Company manufactures and sells the finest quality black puddings, serving the UK and International food markets. Despite the company's international success it still maintains a local presence at the market stall in Bury, England where it all began. In 2016, black pudding was named as a 'superfood' thanks to its high concentrations of iron, zinc, potassium, calcium and magnesium.**

Made using a family recipe that dates back over 100 years, the award-winning company vigorously protects its reputation for high quality and consistent taste. As a British Retail Consortium (BRC) "A Star" certified manufacturer selling to major supermarkets, speciality



With no artificial ingredients, preservatives, processed meat, suet or minced fats, Bury Black Pudding products have earned their reputation as a premium quality superfood.

### **The Bury Black Pudding Company**

Metal Detection

Profile Advantage

HDS Pipeline

**METTLER TOLEDO**



An HDS Pipeline system easily integrates with the Handtmann vacuum filler, inspecting pumped black and white pudding products immediately prior to vacuum filling.



The HDS Pipeline system is fully stripped down for cleaning in between product changeovers.

retailers and restaurants, it is essential that the company's equipment also complies with the very latest global food safety standards.

**Metal detection systems are essential**

The company is committed to producing premium speciality products using only the finest ingredients.

It uses metal detection systems to maintain compliance with the latest international food safety standards, protect its consumers and maintain it's brand reputation. METTLER TOLEDO Safeline metal detectors play a key role in the process, ensuring all products produced are free of metal contaminants, safeguarding the welfare of the consumer and the business.

"As the UK's market leading producer of black puddings in clipped sleeve and traditional, natural skin formats, we are very keen to ensure the product we send out is of the highest possible quality," explained Peter Winkler, Marketing Manager.

He continued "METTLER TOLEDO Safeline metal detectors help us protect our brand, increase our productivity and maintain high quality standards which are essential for keeping our BRC "A Star" standard."

Choosing the right systems for the different production applications ensures that The Bury Black Pudding Company maximizes productivity and operator efficiency throughout its facility.

An HDS Pipeline system inspects clipped black and white pudding products prior to filling.

A bespoke Profile Advantage conveyerized system inspects packaged products including large pudding rings and frozen slices where the applications are more challenging.

**HDS Pipeline system chosen for ease of integration**

The Bury Black Pudding Company's first experience with METTLER TOLEDO product inspection equipment was an HDS metal detection system. High levels of detection sensitivity and equipment stability combined with ease of use to allow the solution to be fully integrated with the existing Handtmann vacuum filling machine on the production line.

The HDS system can be fully stripped down and is sealed to IP69K, making it ideal for the harsh washdown conditions that it is subjected to during each product changeover.

**Profile Advantage offers superior performance in challenging applications**

Increasing demand to supply trade customers with traditional black pudding rings led the company to build a brand new production line specifically for these products.



HDS Pipeline System



Traditional pudding rings are weighed and packaged in net bags before being inspected by a Profile Advantage metal detection system.

Unlike the smaller vacuum-filled clipped sleeve products, the traditional pudding rings needed to be inspected after final packaging. The company also had a need to inspect frozen products to meet the demands of new export customers.

Both characteristics - size and frozen state - can present a potential challenge for traditional metal detection technology due to a phenomenon called 'product effect'.

Product effect occurs when the product's own characteristics inhibit the ability of the product inspection equipment to perform optimally. Products that are wet, hot, chilled, cooling, or packed in metallized film exhibit product effect, so inspection by a metal detector can prove challenging.

However, using Multi-Simultaneous Frequency and Product Signal Suppression technology, Profile Advantage is able to overcome product effect.

It can detect irregular shaped metal contaminants up to 50 percent smaller in such challenging applications, making it an ideal choice for food manufacturers in a variety of sector applications.

Having been impressed with the product trials of the Profile Advantage system, The Bury Black Pudding Company ordered a bespoke conveyorized system incorporating a Profile Advantage metal detector with a Series 80 conveyor.

"We are really impressed with the Profile Advantage system," praised Richard Morris, Production Director at The Bury Black Pudding Company. "It just works. Product changeovers are quick and simple. It's very reliable and easy to use."

### Meeting Retailer Codes of Practice

The Profile Advantage metal detection system incorporates a large pusher style reject device, lockable reject bin and customized tunnel guards. These, along with a number of failsafe confirmation sensors, visual indicators and audible alarms ensure the company is able to meet the code of practice requirements set out by the retailers it supplies.

The hygienic, open frame design minimizes the potential for dirt traps, and makes cleaning simple - essential elements of any Hazard Analysis and Critical Control point (HACCP) based framework.



Profile Advantage S80 metal detection system



A range of products produced by The Bury Black Pudding Company for the UK and International markets.



Peter Winkler, next to trays of Black Pudding rolls

### More than just an assurance of product quality

In addition to ensuring all products produced are free of metal contamination, METTLER TOLEDO Safeline metal detection systems also support the company's aim to minimize production costs.

Exceptional reliability and ease of use ensure maximum production line uptime, so the company can deliver orders on time to its customers.

By virtually eliminating false rejects, METTLER TOLEDO Safeline's metal detection systems also help to minimise unnecessary product waste and the costs associated with investigating potential sources of contamination.

### About the Company

The Bury Black Pudding Company is a rapidly growing, global brand. In addition to supplying all major UK supermarket chains, the company also exports to France, Spain, Portugal, Bulgaria, Switzerland, UAE and New Zealand.

It maintains full traceability of all ingredients and all suppliers are BRC accredited or higher.

"We are a growing local business and employ many local people. As the only black pudding manufacturer based in the town we consider ourselves to be the custodians of this great northern delicacy. Our black pudding is a very traditional product, one which is a part of our town's heritage, and we take this responsibility very seriously," commented Managing Director Debbie Pierce.

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