

# SPECIAL FOCUS

## Large Bag Metal Detectors

For suppliers of powders and bulk solids, inspecting for metal contaminants while accommodating larger and varying pack sizes, ranging from 25kg to 50kg (50 to 110lb), can be quite a logistical challenge. Industrial metal detection heavyweight, Fortress Technology, has a solution - the innovative Large Bag Metal Detector, universally known by users as the Big Bag King (BBK).

In the world of bulk metal detection, larger aperture sizes typically mean reduced sensitivity. With the BBK, this isn't the case. Thanks to its specialised coil structure and advanced electronics, the system is able to detect 2.0 mm stainless steel in most bulk packs of dry product. It also detects ferrous and non-ferrous metal as small as 1.5 mm.

Built specifically for inspecting bulk food items, including flour, corn, grains and rice, pharmaceutical and nutraceutical powders, confectionery, and even personal care products, no other system in the world comes close to this performance and sensitivity claims the company. It is the only bulk metal inspection system in the world to use a special RF (radio frequency) noise reduction modification, which dramatically reduces the detector's susceptibility to RF interference.

Given the prevalence of loud industrial equipment and transport vehicles in bulk factories, the Fortress BBK features a BSH extra-rugged outer casing. This is designed to suppress vibration caused by other equipment running in close proximity to the metal detector, which can interfere with signals leading to false rejects. Having the choice of aluminum epoxy painted or stainless-steel casing also ensures long-term reliability and performance in heavy processing environments and plants.

As with all of Fortress Technology's metal detectors, the BBK meets the company's 'Never Obsolete' commitment. This means that should supplier codes of practice change over time, the Fortress metal detector can easily be upgraded to the very latest processing unit and software.

Built-in Contact Communication software with USB data transfer offers an effective and HACCP compliant method to collect and store data at critical control points.

In addition to the bigger metal detector aperture, bulk bags often require heavy-duty conveyors. For installation convenience and maximised system performance, Fortress Technology can supply the entire system, with an integrated Vector conveyor. Depending on application, customers can opt for a wash down epoxy resin aperture lining or a wipe down dry liner.



Rugged and robust, Fortress Large Bag Metal Detectors are designed to inspect larger sized products between 50-100 lb. in heavy processing plants



To optimise efficiency, heavy-duty conveyors, gravity inspection and Lab QA metal detectors can be added to bulk processing lines

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