X-ray Systems for Contaminant Detection and Quality Assurance

METTLER TOLEDO SAFELINE, the worldwide leader in inline product inspection now brings its expertise to x-ray systems. Depending on the specific model chosen, Safeline X-ray Inspection systems can detect metal, glass, bone, and stone contaminants and also ensure portion control, product quality and package integrity. Electronically controlled, low energy x-ray generators combined with powerful data and image analysis systems ensure detection of even the most minute product variations that could result from either contamination or deviation from established quality standards. Optional, fully integrated reject mechanisms can automatically remove these products from your line. All Safeline X-ray Inspection systems operate on an XP Pro platform with 65,000 grey scale imaging with seated, high resolution LCD colour touch-screen operator interfaces.

X-ray Safety

Safeline X-ray Inspection systems use low energy x-rays that are fully contained and are built to the highest standards in the industry, conforming to the Ionising Radiation Regulations (IRR) in order to protect plant workers and leave inspected products unaffected. Every Safeline X-ray inspection system is tested by approved, certified auditors before leaving the factory.

www.mt.com

Visit for more information
X-ray Inspection

AdvanCheK
- Contamination detection
- Easy to operate
- No x-ray knowledge required

A powerful and economical way to introduce x-ray inspection to your production lines, AdvanCheK utilises a single vertical x-ray beam for detection of contaminants such as metal, bone, stone and glass in finished products. Inspection widths of 300mm, 400mm and 600mm are available running at speeds of up to 400 packs per minute.

InspireX R20
- Complete product integrity inspection
- Gross mass and zoned mass calculations
- Multi lane capacity

The InspireX R20 system is designed for the inspection of conveyorized products and is available in three models, vertical beam, horizontal beam and bulk flow. All models inspect for the full range of contaminants such as metal, bone, stone and glass. Safeline’s sophisticated software enables gross and zoned mass calculations, seal inspection and object counting to scan for missing or damaged items. An inspection width of 300mm is available running at speeds up to 120 meters a minute.

InspireX R40
- Inspection of larger packages and products
- Full range of inspection tools
- Multi lane capacity

The InspireX R40 offers the same capabilities as the InspireX R20 system, but applied to larger packages and products. Inspection widths of 400mm, 500mm, 600mm and 800mm are available. Complete product integrity inspection is offered which encompasses scanning for missing or damaged items, gross and zoned mass calculations (indicating overfill or underfill) and seal inspection.

InspireX R70
- Pipeline inspection for contaminants
- Multiple configurations

The InspireX R70 with an integral pipeline is specifically designed to inspect fluids and semi-solids for contaminants such as bone or variation from established standards. Available in four pipe sizes (2", 2.5", 3" or 4"), it can inspect product flows up to 12,000 kilos per hour.

InspireX R80
- Inspection of large packages
- Full product inspection tools

The InspireX R80 system ensures complete product coverage by using vertical twin beams for inspection. The integral conveyor system allows inspection of products up to 400mm wide and 400mm high, running at speeds up to 100 meters per minute.

InspireX R50
- Inspection of vertically orientated packages
- Full range of contamination tools

The InspireX R50 system is designed for the inspection of vertically orientated products and is available in three models, vertical beam, horizontal beam and bulk flow. All models inspect for the full range of contaminants such as metal, bone, stone and glass. Safeline’s sophisticated software enables gross and zoned mass calculations, seal inspection and object counting to scan for missing or damaged items. Inspection of up to 1200 packs per minute is possible.

CanCheK
- Inspection of cans for contaminants
- Complete product integrity inspection

The CanCheK inspection system uses a single horizontal split beam with two detectors, optimised for can inspection. Contaminants such as metal, glass, stone and bone can be detected and in addition, over and under fill measurements can be made. Inspection of up to 1200 packs per minute is possible.

GlassCheK
- Inspection of glass jars for glass contaminants
- Complete product integrity inspection

The GlassCheK inspection system uses a horizontal dual beam for inspection of jars and other glass containers for glass contaminants in particular but also stone, metal and bone. Measurement of product mass, over and underfill can also be readily achieved at inspection rates of up to 1000 jars a minute.

All Safeline X-ray inspection systems feature:
- Automatic product set up in under two minutes and self calibration
- Intuitive touch screen for easy operation
- Low power system offering excellent reliability
- Adaptive technology ensuring maximum sensitivity and accuracy
- External ethernet and USB port allows for easy communication and data reporting
- Multiple configurations to suit all applications
- Fully customised conveyors
- A full complement of reject mechanisms
- Stringent hygiene standards, IP65 as standard, IP69K optional
AdvancCheck
- Contamination detection
- Easy to operate
- No x-ray knowledge required
A powerful and economical way to introduce x-ray inspection to your production lines, AdvancCheck utilises a single vertical x-ray beam for detection of contaminants such as metal, bone, stone and glass in finished products. Inspection widths of 300mm, 400mm and 600mm are available running at speeds of up to 400 packs per minute.

InspireX R20
- Complete product integrity inspection
- Gross mass and zoned mass calculations
- Multi lane capacity
The InspireX R20 system is designed for the inspection of conveyorized products and is available in three models, vertical beam, horizontal beam and bulk flow. All models inspect for the full range of contaminants such as metal, bone, stone and glass. Safeline’s sophisticated software enables gross and zoned mass calculations, seal inspection and object counting to scan for missing or damaged items. An inspection width of 300mm is available running at speeds up to 120 meters a minute.

InspireX R40
- Inspection of larger packages and products
- Full range of inspection tools
- Multi lane capacity
The InspireX R40 offers the same capabilities as the InspireX R20 system, but applied to larger packages and products. Inspection widths of 400mm, 500mm, 600mm and 800mm are available. Complete product integrity inspection is offered which encompasses scanning for missing or damaged items, gross and zoned mass calculations (indicating overfill or underfill) and seal inspection.

InspireX R50
- Inspection of vertically orientated packages
- Complete product integrity inspection
The InspireX R50 system is specifically designed to inspect fluids and semi-solids for contaminants such as bone or variation from established standards. Available in four pipe sizes (2", 2.5", 3" or 4"), it can inspect product flows up to 12,000 kilos per hour.

InspireX R70
- Pipeline inspection for contaminants
- Multiple configurations
The InspireX R70 with an integral pipeline is specifically designed to inspect fluids and semi-solids for contaminants such as bone or variation from established standards. Available in four pipe sizes (2", 2.5", 3" or 4"), it can inspect product flows up to 12,000 kilos per hour.

InspireX R80
- Product inspection of large packages
- Full product inspection tools
The InspireX R80 system ensures complete product coverage by using vertical twin beams for inspection. The integral conveyor system allows inspection of products up to 400mm wide and 400mm high, running at speeds up to 100 meters per minute.

InspireX R70
- Inspection of glass jars for glass contaminants
- Complete product integrity inspection
The GlassChek inspection system uses a horizontal dual beam for inspection of jars and other glass containers for glass contaminants in particular but also stone, metal and bone. Measurement of product mass, over and underfill can also be readily achieved at inspection rates of up to 1000 jars a minute.

CanChek
- Inspection of cans for contaminants
- Complete product integrity inspection
The CanChek inspection system uses a single horizontal split beam with two detectors, optimised for can inspection. Contaminants such as metal, glass, stone and bone can be detected and in addition, over and under fill measurements can be made. Inspection of up to 1200 packs per minute is possible.

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