

Dairy Milk Powder



Solution Features & Advantages

- ▶ Hygienic design offers easy access to all machine areas and tool-less full conveyor belt removal in seconds - no bug traps. Sealing approved to IP65; IP69K is also available for harsher wash down environments.
- ▶ 3-A Sanitary Certification is optional and METTLER TOLEDO Safeline is the first and only company in the world to offer 3-A sanitary certified x-ray inspection systems.
- ▶ Complete product integrity check can be provided, combining contamination detection with measuring fill level and mass of milk powder in foil bags and metal cans.
- ▶ Reliable detection of dense contaminants such as metal, glass, stone and high density plastic even when in foil packaging and metal cans.

Customer Challenges

- Easy cleaning and maintenance
- Equipment with no bug traps where bacteria could breed
- Highest hygiene standards to protect their brand
- Checks for many forms of contamination also when packed in foil packaging and metal cans
- Compliance with retailer codes and legislation
- Reduce the cost of rejection
- Measuring fill level or mass of milk powder

Customer Benefits

- ▶ Efficient and easy cleaning and maintenance reducing downtime.
- ▶ This assures customers in the beverage, dairy and food processing industries that the highest possible hygiene standards have been reached and can easily be maintained in the production environment to ensure continual brand protection.
- ▶ Ensuring customer satisfaction and that the highest possible quality standards are met.
- ▶ Therefore sensitivity is optimised and production throughputs are maximised.

Suitable x-ray inspection systems for milk powder:



AdvanCheK &
AdvanCheK Plus



InspireX R20 &
InspireX R40



InspireX R20H



CanCheK

METTLER TOLEDO



Dairy Applications - Safeline X-ray Inspection Systems

| | AdvanCheK | AdvanCheK Plus | InspireX R20 | InspireX R20H | InspireX R40 | InspireX R70 | CanCheK |
|--------------------------|---|---|---|--|---|-----------------|-----------------------------|
| Butter, Margarine | small retail packs | small retail packs | small retail packs | | large blocks | pumped products | |
| Ice Cream | lollies, cones, small tubs, choc ices | lollies, cones, small tubs, choc ices | lollies, cones, small tubs, choc ices | | multi packs, large tubs 2L | pumped products | |
| Cheese | small retail packs, grated cheese, cream cheese | small retail packs, grated cheese, cream cheese | small retail packs, grated cheese, cream cheese | | large blocks (e.g. 20kg), vaccum packed grated cheese (e.g. 10kg), discs-fixed weight | pumped products | |
| Milk | | | | plastic bottles, tetra paks | | pumped products | |
| Milk Powder | sachets | sachets | sachets | composite can | big foil bags, multiple packs in a carton | | Metal cans & composite cans |
| Yoghurt | small retail packs | small retail packs | small retail packs | big pots up to 500ml, probiotic drinks | trays of yoghurt (single or double layers) | pumped products | |

CanCheK

Superior Safety for Metal Cans

- Metal cans are a common packaging material for milk powder.
- Vertical x-ray systems suffer from blind spots at the base and side walls of the can. SAFELINE's horizontal multi beam CanCheK system inspects through the less dense cross section area of the metal can. Due to the angle of the beams, contaminants are pulled away from the sidewalls and made visible and therefore sensitivity and probability of detection is greatly increased in the base and sidewalls of the can.
- The CanCheK has the additional capability to measure mass, check fill levels as well as missing or damaged products.
- Variable speed detection capability allows changes in line speed without interrupting inspection, increasing productivity and maximising throughput of up to 1200 cans per minute.



CanCheK

X-ray image using a vertical x-ray system



No detection at side walls of the can as contaminant is in blind spot

X-ray image using a horizontal multi beam CanCheK system



Milk powder can with rubber o-ring from a pneumatic cylinder detected

Mettler-Toledo Safeline X-ray Ltd.

Greenfield,
Royston Business Park
Royston, Hertfordshire,
SG85HN UK

Tel: +44(0)1763 257900

Fax: +44(0)1763 257909

Email: xraysales@mt.com

www.mt.com/safeline-xray

For more information

Subject to technical changes

© 2008 Mettler-Toledo Safeline Ltd.

Printed in UK