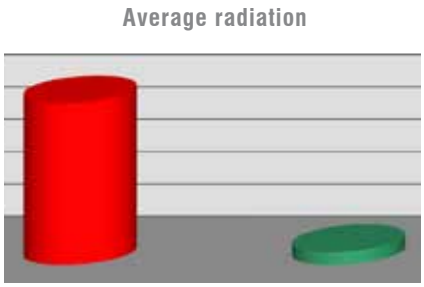
Newton X2Z

Containers Fill Level Inspection



Traditional X-ray fill level inspection units

miho Newton X2Z

The miho **Newton X2Z** is a X-ray fill level inspection unit that inspects cans, cartons lined with aluminium, foiled containers and bottles with the highest level of accuracy, with a refined determination of the exact fill level. It distinguishes itself by requiring less than a tenth of the average amount usually used for inspection by radiation for its measurement process. And thus the amount of radiation exposure is also reduced.

This reduction is due to X-ray technology developed for this purpose by miho *Inspektionssysteme*. Its core piece is a X-ray generator, which in contrast to traditional X-ray fill level inspection units only generates X-rays for a short moment during the measurement. The total radiation intensity is therefore only a fraction of what is the case with traditional X-ray fill level inspection units. The exact value depends upon the number of containers inspected. Another advantage of the X-ray generator being turned on only during the measurement is the considerable prolongation of the generator´s life span.

The high level of inspection accuracy of the miho **Newton X2Z** is also due to the use of a line detector. It measures the intensity values at different height positions and compensates for the different wall thickness of the containers in this way, which would otherwise influence the inspection result.

The miho **Newton X2Z** is therefore the X-ray fill level inspection unit that combines the maximum level of accuracy with the minimum level of radiation exposure.

miho Inspektionssysteme

Newton X2Z

List of features

Technology and functions

- X-ray generator only emits radiation during the inspection time. Therefore, there is a considerably reduced average radiated power and considerable increase in lifespan of the X-ray tube.
- Highest level of measurement accuracy and reliability.
- Compensation for different glass thickness and quality due to the use of a line detector instead of a point detector.
- Container inspection for underfill and overfill with just one inspection head.
- Evaluation unit with components of the standardized modular inspection unit system miho **Master**. High and diverse performance capability and easy maintenance.

Area of use

- Inspects the fill level in drink cans, carton packaging (even when aluminium coated), containers (even with foil) and glass bottles.

Operation

- High level of comfort through separation of the control cabinet and the inspection head.
- Comprehensive 5,7“ colour display with touchscreen.
- Language selection.
- Bottle-type with corresponding fill level, changeable and can be saved.
- Extensive statistics.
- Adjustment to different nominal fill levels through easy to operate manual adjustment device.

Prepared for

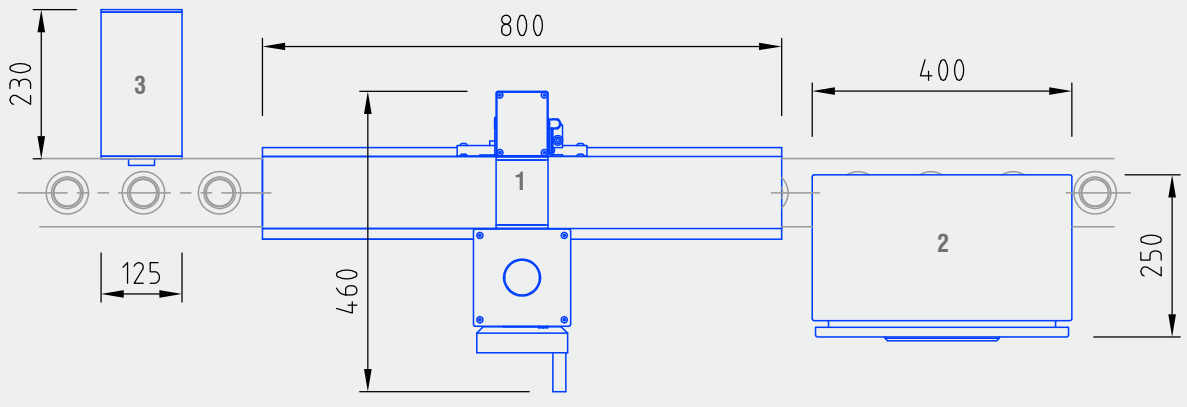
- Cap detection for metal or/and plastic caps.
- Filling pipe detection.
- Label detection module.
- Filler monitoring system miho **FM 2**.
- Operational data-processing.
- Remote maintenance.

Legal regulation

- In contrast to the gamma ray fill level inspection units, miho **Newton X2Z** is free of the legal regulations concerning transport, storage, use and disposal. Since radiation can only be emitted during the production process it is only necessary to issue an obligatory notice under German Law.

Rejection

- Standard reject system miho **HSP**.
- Eccentric reject system miho **ESF 2.**
- Standing rejection (especially for plastic bottles): Linear reject system miho **Leonardo M.**



3: Reject System miho HSP 1: Inspection Head 2: Electronic Cabinet

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