

- X-ray inspection for liquid and pasty products
- Detects high density materials like metal, ceramic, stone or plastic
- Easy operation with autocalibration and clearly arranged functions on 17" touchscreen
- XIA software for instant analysis and detection with high accuracy and reliability
- Easy to integrate into common pipeline systems from 1" – 6"



- Real time detection with coloured contamination analysis
- Masking functions
- Auto-storing of inspection data with time and date stamp
- User-friendly menus for easy operation
- USB and Ethernet
- Three different rejection valves for optimal adaptation to the product
- Easy maintenance and cleaning
- Built-in remote maintenance
- 24 hours non-stop operation
- TÜV-approved: reliable german safety standard (optional TÜV certificate)



Large display and clearly arranged functions for easy operation.

Scope of Delivery:

- Xray Scanner with image processing software XIA
- Complete protection against radiation and PILZ safety circuit
- Certified test cards with soda lime glass, ceramics, steel spheres in various diameters

Accessories & Extras:

- Separate conveyor with automatic reject
- Radiation counter
- 21 CFR Part 11 compliance
- BRC compliance kit

Funktion:

The XD08-H1-PIPE is designed for x-ray inspection of liquid and pasty products in pressure delivery pipe-lines. Undesirable contaminants such as metal, stone, ceramic, glass or plastic with high density can be detected in the product.

The hygienic design allows easy cleaning and maintenance without any additional tools. Thus, the XD08-H1-PIPE is especially suitable for all industries that have to ensure effective hygienic standard.



XD08-H1-PIPE with FESTO-air pressure system.

Application:

X-ray inspection of pastes and liquids in pressurized pipe-lines, line

- soup, sauces, ketchup,
- toothpaste or fluids,
- etc.

Industries:

- Food
- Pharma
- Cosmetics
- etc.

Specifications:

Model	XD08-H1-PIPE (former XIN80)
X-ray source	Single beam x-ray generator with max. 80kV (480W), variable in voltage + current
Radiation leakage	3 µSv/h or less at 10 cm outside cabinet surfaces and using all safety devices
Safety	Special pipe for products, quickly detachable, magnetic safety switches at cabinet doors and tunnel hatches, emergency stop push button, emergency stop in/out interfaces to safety circuits of production line, X-ray off key switch, PILZ safety circuit
X-ray detector	Low noise 408 mm line scan CCD, diode pitch 0.8 mm or 0.4mm (optional)
X-ray view	1x top down
Cooling	Highly efficient, silent DC filter fans
Housing finish	Stainless steel grade AISI 304 / DIN EN 1.4301 (X5CrNi18-10)
Enclosure rating	IP54 (according to IEC 60529), incl. touch panel and fans
Available reject method	Butterfly/shim valve, arc valve or piston valve
Product memory	255 different product set-ups
Display	17" Color-TFT capacitive touchscreen
Inspection features	Autocalibration, auto adaption to density distribution, density, hard contrast, soft contrast, masking technology, SuperContrast, SizeFilter, AutoEdge masking, images AutoSave/Load, multi segment inspection, metal can and foil inspection, fill quantity, generator energy by product, password protection
In-/Outputs	Programmable outputs (contamination, ready, Emergency OFF) Programmable inputs (Emergency OFF, wake up, optional control signals)
Data transfer	Ethernet for remote support via internet, USB for external keyboard/ mouse/ memory stick
Max. weight	0,5 t
Power supply	1ph, 230 V AC +/- 10%, 50/60 Hz, full operation max. 0.5 kW
Compressed air supply	Without rejection system 0 MPa (0 bar/0 psi) With rejection system 0,4 MPa (4 bar/58 psi)
Environmental conditions	0°C to +30°C / 32°F to 86°F, with relative humidity max 90%, non-condensing Option: additional external cooling devices to extend the temperature range
Compliance	CE, compliant to German x-ray regulations, specific adaptation for other countries

All information is based on standard devices. There possibly will be differences depending on the application. Changes to be excepted.

Rejects:

Three different valve types, optimally matched to the respective product, guarantee reliable discharge of metallic contaminants. All valves can be CIP cleaned.



Butterfly-/Shim valve EX-BF

- for liquids and slightly pasty products
- very stable
- pre-opening on ejection side prevents recoil into pipeline
- low cost version
- for pressure up to 8 bar



Arc valve EX-BOG

- for viscous, pasty products
- for liquids with solids in it
- for pressure up to 40 bar
- CIP-cleanable and free from dead spaces
- suitable for cleaning with a pig



Piston valve EX-PWC

- for tough pastes like sausage meat
- internal piston lowers into the product flow and "punches" contaminated product parts out of the product flow
- for pressure up to 25 bar

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As a premier manufacturer, CASSEL is committed to the highest quality standards. For more than 25 years, our goal has been to ensure the uncompromising quality of your products. We supply customers worldwide in various industries, including food, plastics, pharmaceuticals, textiles, lumber and mining.

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