

FILL LEVEL INSPECTION




FOCUS ON
X-RAY TECHNOLOGY



- ✓ **RESPECT OF LEGAL REQUIREMENTS**
ABOUT MINIMUM FILLING LEVEL
- ✓ **IMPROVEMENT OF QUALITY AND LINE EFFICIENCY**
THROUGH THE MONITORING OF FILLER PERFORMANCE
- ✓ **MONITORING OF THE PRODUCTION**
THROUGH THE AVERAGE LEVEL CONTROL
- ✓ **REDUCTION OF MAINTENANCE HOURS**
THE MONITORING SYSTEM ALLOW TO DETECT PROBLEM ON A SPECIFIC FILLING VALVE



CHOOSE THE MOST APPROPRIATE TECHNOLOGY DEPENDING ON THE CHARACTERISTICS OF PRODUCT AND CONTAINER

TECHNOLOGY	CONTAINER	PRODUCT
 RX X-RAYS	ALL KINDS Glass, PET, HDPE, Cans, Tetrapack, etc...	ALL KINDS oil, sauces, detergents, Powders, water, soft drinks, juices, tea, beer, wines, spirits, etc...
 HF HIGH FREQUENCY	GLASS OR PLASTIC Glass, PET, HDPE, etc...	CONDUCTIVE Water, soft drinks, juices, tea, beer, wines, spirits, milk, other conductive products...
 IR INFRARED	GLASS OR PLASTIC The Container need be tested. Suitable ONLY if it's transparent to the infrared light	IR shielding Oil, other products that shield the infrared light...



X-RAY TECHNOLOGY

COFIGURATIONS



DETECTION

- Under filled products
- Over filled products

APPLICATIONS

CONTAINER

ALL KINDS

Glass, PET, HDPE, Cans, Tetrapack, etc...

PRODUCT

ALL KINDS

oil, sauces, detergents, Powders,
water, soft drinks, juices, tea, beer,
wines, spirits, etc...



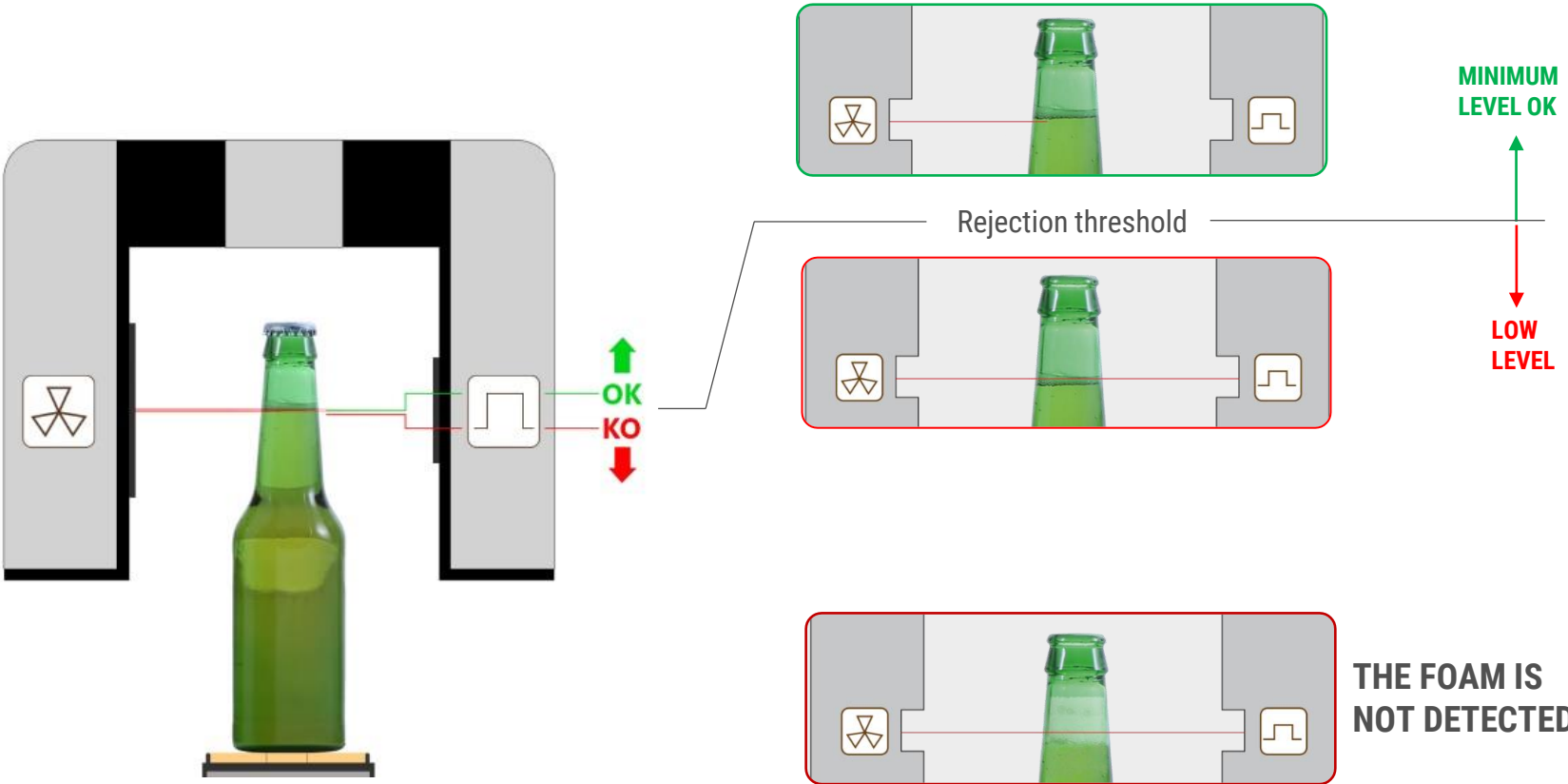
X-RAY ON GLASS | HOW DOES IT WORK ?



AN EMITTERS GENERATES A "BEAM" OF X-RAYS THAT PASSES THROUGH THE CONTAINER AND PRODUCT.

THE PRODUCT STOPS X-RAYS BEAM

IN GLASS BOTTLES BECAUSE OF THE LEAD CONTENT AND THE VARIABILITY OF THE WALLS, IT'S DETECTED THE PRESENCE OF MINIMUM LEVEL ONLY

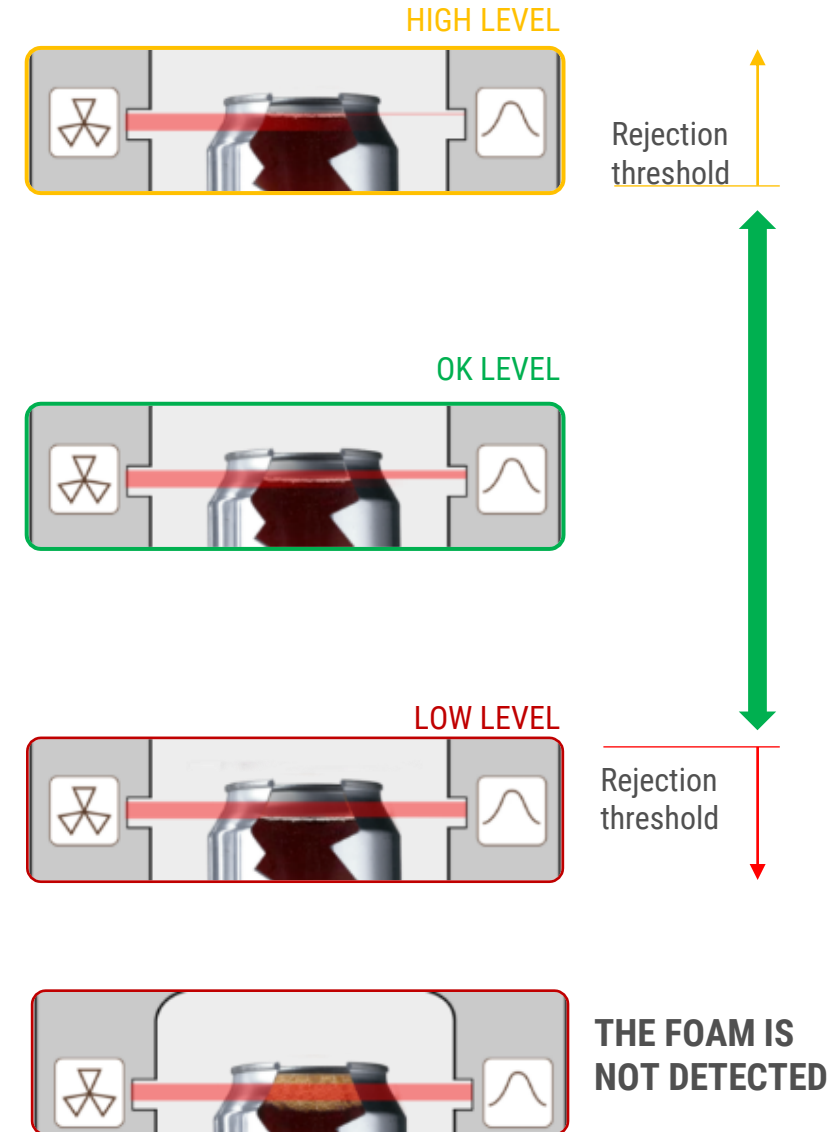
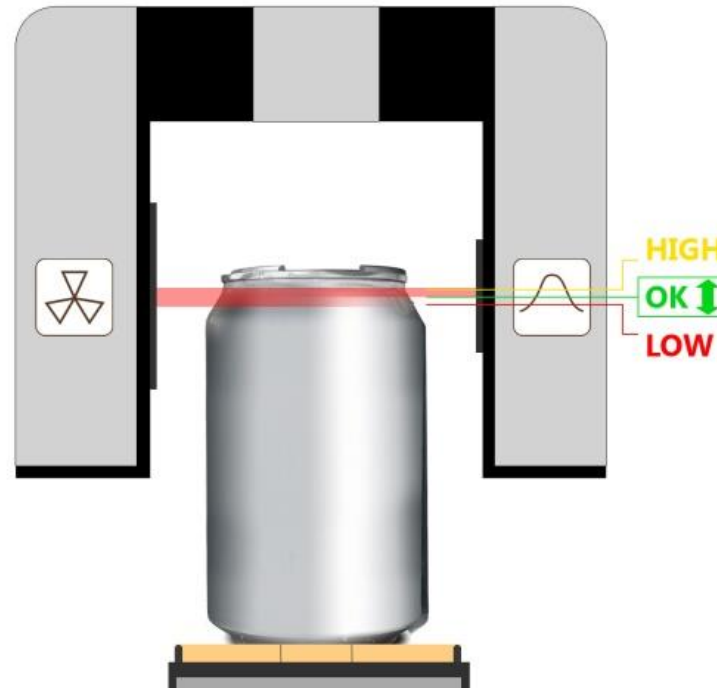


X-RAY ON CANS [or NOT GLASS] | HOW DOES IT WORK ?

AN EMITTERS GENERATES A "BLADE" OF X-RAYS THAT PASSES THROUGH THE CONTAINER AND PRODUCT

THE PRODUCT STOPS X-RAYS, CASTING A "SHADOW" ON THE RECEIVER.

THE VARIATION OF X-RAYS DETECTED BY THE RECEIVER ALLOWS THE **MEASUREMENT OF FILLING LEVEL**





WHY IT'S BETTER THAN OTHER X-RAY SYSTEM?

REDUCE FALSE REJECTIONS

IT'S NOT AN "On-Off" detection

The "X-Ray Blade" system

ALLOWS TO SET THE MINIMUM AND MAXIMUM ACCEPTABLE LEVEL.

AVOID FALSE REJECTIONS DUE TO THE PHYSIOLOGICAL VARIATION OF FILLING LEVEL



MAINTENANCE COSTS REDUCTION

"VISUAL DIAGNOSTIC SYSTEM"

available on x-ray device

EASY FAULT IDENTIFICATION

[Also by taking advantage of telephonic assistance of "FT System" technicians]

AVOID the systematic **PREVENTIVE REPLACEMENT** of "X-Ray group"



DIAGNOSTIC
PANEL

X-Ray
GENERATOR

DETECTIONS

REJECTIONS COUNTING

- TOTAL REJECTED FOR OVERFILLING
- TOTAL REJECTED FOR UNDERFILLING
- TOTAL REJECTED FOR EXTERNAL CAUSE

STANDARD DEVIATION OVERALL PRODUCTION

AVERAGE LEVEL OVERALL PRODUCTION

TYPICAL OPTIONAL

MONITORING SYSTEM

- FILLER PERFORMANCE MONITORING
FOR EACH FILLING VALVE
- AVERAGE FILLING LEVEL
 - STANDARD DEVIATION
 - REJECTION COUNTING

CAP / LID INSPECTION

- CAP / LID PRESENCE
- CAP / LID MATCHING
- CAP / LID POSITIONING
- CAP / LID INTEGRITY



CHOOSE THE MOST SUITABLE “SERIES” TO MEET YOUR SPECIFIC NEEDS

600 / 700 Series

HMI & SYSTEM MANAGEMENT

- DIFFERENT LEVELS OF INFORMATION
- MANAGE THE ACQUIRED DATA IN A DIFFERENT AND PERSONALIZED WAY
- DIAGNOSTIC and MAINTENANCE IMPROVEMENT

600 SERIES

MAIN PAGE
Last reading value/error,
Average values detected,
trend, standard deviation



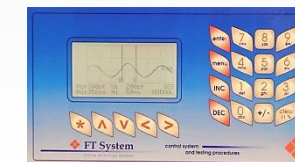
CHANGEOVER
- 60 Selectable products



SETTINGS
- Segregated menù for an
easy parameter setting
- Self-Learning calibration



**MAINTENANCE AND
DIAGNOSTIC TOOLS**
- Integrated oscilloscope
- Digital I/O screen

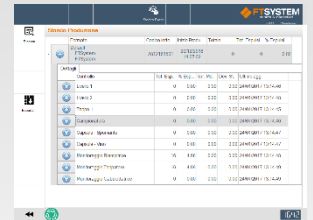


700 SERIES

INTUITIVE PRODUCTION OVERVIEW
- Immediate visualization of production trend
- Direct visualization and management of alarms
- Rejectors/Diverter direct management

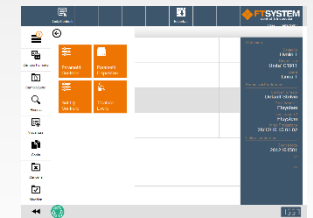


FULL DATA MANAGEMENT
- Complete Product Database
(characteristics, settings, etc...)
- Product search engine
- Historical database of productions
All data, result and settings available
and exportable



Change	Date	Time	Run Period	Production
FT System	2020/10/10	10:10:10	0	0

EASY USE
- Easy and fast new product setting
- Graphical parameter settings
- Self-Learning calibration
- Integrated diagnostic tools



ADVANCED DIAGNOSTIC TOOLS
- Analogic and Digital oscilloscope
- In-line digital sensor monitoring panel
- Analogic input level visualization
- Maintenance notice and instructions



CHOOSE THE MOST SUITABLE “SERIES” TO MEET YOUR SPECIFIC NEEDS



WHY DIFFERENT “SERIES” ?

BECAUSE IT’S Possible...

- OBTAIN DIFFERENT LEVELS OF INFORMATION
- MANAGE THE ACQUIRED DATA IN A DIFFERENT AND PERSONALIZED WAY
- TO IMPROVE THE PRODUCT PROTECTION WITH ADDITIONAL INSPECTION SYSTEMS

SERIES : TECHNOLOGIES AND APPLICATIONS

	SERIE «600»	SERIE «700»
Technologies	HF, RX, IR	HF, RX, IR
HMI	Standard - Graphics LCD - Advanced Keypad	PC - Touch screen 15
Cap presence / Misal.	Yes	Yes
MONITORING Filler/Capper machine	Yes	Yes
BURST Control Inside the filler	Yes	Yes
Foam PRESENCE	Yes	Yes
Foam COMPENSATION	Yes (HF Only)	Yes(HF Only)
Ejection device	All	All
Enlargement	No Camera system	All
Production historical data Available/Downloadable	- Available on HMI - Eportable - Download	- Download
Remote assistance	No	Yes



THANKS FOR YOUR ATTENTION

www.ftsystem.com
www.antaresvision.com