



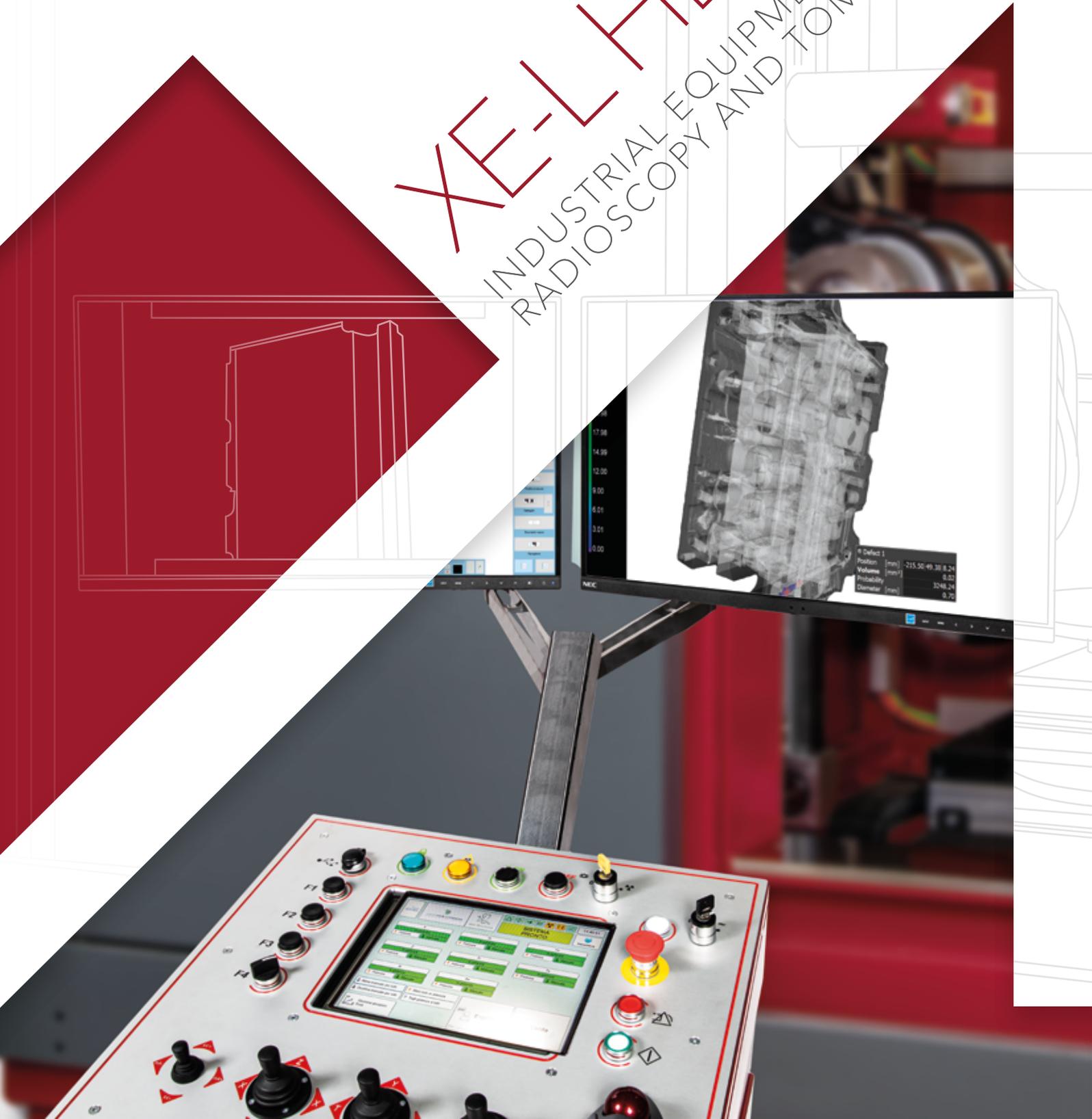
IMAGING THE FUTURE SINCE 1947

POWERED BY



XE-LT-E

INDUSTRIAL EQUIPMENT FOR
RADIOLOGY AND TOMOGRAPHY



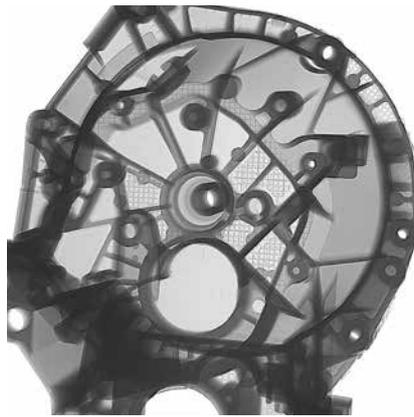


Join us into the future of industrial radiography
and tomography with our new systems
from the collaboration between Gilardoni and Eidosolutions



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Image acquired in radioscopy



XE-LHE

RAISES THE STANDARD OF INDUSTRIAL
X-RAY TESTING

VERSATILITY MEETS RELIABILITY

VERSATILITY MEETS RELIABILITY

PENETRATION

up to 60mm of Fe (or 230mm of Al)

INSPECTABLE VOLUME

Ø 700mm x H 1200mm

RESOLUTION

up to 15µm

LOADABLE WEIGHT

500kg

EQUIPPED WITH

- ▶ Minifocus source 450kV or 320kV
- ▶ Additional microfocus source 150kV
- ▶ Flat Panel up to 16"
- ▶ Additional linear sensor up to 614mm in width

VERSATILITY

XE-L HE combines the characteristics of multiple systems allowing the inspection of a wide range of objects of different sizes.

POWER

Ability to penetrate complex, large-sized, very thick and heterogeneous products.

PRECISION

Ability to perform high resolution analysis on small components or with details of a few microns.

RELIABILITY

The robust design of the cabinet and its mechanical components and accurate quality controls and testing during the production phase insure reliability.

MANIPULATION SYSTEM

The 7 axis positioning system uses brushless motors with absolute multi-turn encoders that allow use of the equipment without resetting after shutdown or system recovery.

XE-L HE

NEW EQUIPMENT
FOR RADIOGRAPHY
AND TOMOGRAPHY



MAIN FEATURES

- ▶ Flexibility
- ▶ Modularity
- ▶ High image quality
- ▶ Advanced manipulator
- ▶ Easy loading
- ▶ Easily programmable control software with touch screen
- ▶ Standard image processing software on dedicated monitor
- ▶ Low maintenance
- ▶ Operator safety
- ▶ Large inspection area
- ▶ Interconnection with company information systems

EASY LOADING

An inverted 'L' shaped sliding door allows objects to be top loaded as needed.

EASY TO USE

Software designed to be simple and intuitive. The analog joysticks allow control of the manual speed of each axis, enabling the operator to perform precise positioning or fast movements as needed.

FILTERS

Image processing with filters allows viewing of data not visible on monitors and not perceived by the human eye. This allows automatic enhancement of the information contained in the digital image obtained.

THE INNOVATIVE SOLUTION

IN THE FIELD OF X-RAY INDUSTRIAL TESTING

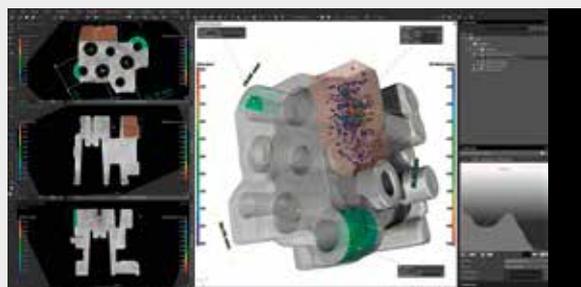
The modular design allows for later addition of components to the initial configuration.

TOMOGRAPHY

VG Studio software, the most advanced 3D reconstruction and tomographic analysis software available on the market, can be installed upon request.

Depending on requirements, packages including different modules are available:

- ▶ Porosity/inclusions analysis
- ▶ Wall thickness analysis
- ▶ Coordinate measurement
- ▶ Actual/nominal comparison

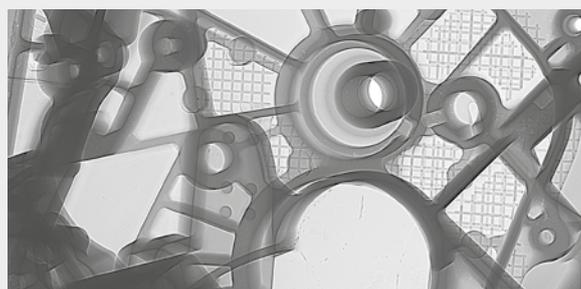


QUICK SCAN

The Quick Scan function produces an initial three-dimensional image in just 20 seconds (using specific sensor models).

ENHANCED IMAGE QUALITY

The already high image quality, obtained through the use of a digital panel and proprietary software filters, can be further enhanced with the installation of an optional linear sensor. This improves the quality of tomographic reconstructions by reducing artifacts while increasing the maximum scan area.

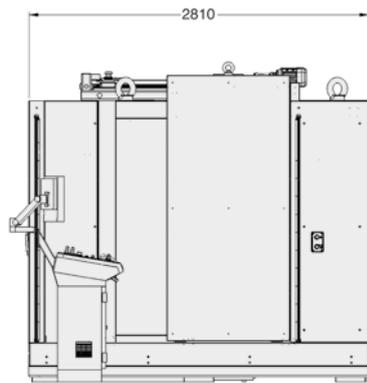


X-WIDE VIEW

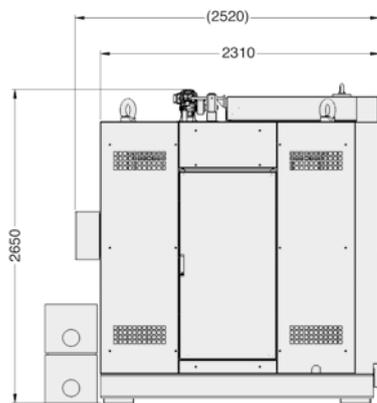
Enlarges the field of view up to 16" even with an 8" sensor.

X-SCATTERING FOCUS

Eliminates diffuse and scattered radiation interference enhancing resolution, homogeneity and contrast in the X-ray image.



Front view



Side view
Dimensions in mm

VERSION	320kV	450kV
SHIELDED CABINET		
Dimensions (W x D x H)	See layout	
Installation area	4000 x 4500mm	
Weight	12000 kg	18000 kg
Number of doors	One inverted 'L' shaped sliding door for top loading	
Loading door size	900 x 1800mm	
Console	External, adaptable to the layout, adjustable monitor	
MANIPULATOR		
Maximum linear axis speed	12m/min	
Zoom axis	Zoom up to 12x	
Horizontal axis	600mm (+300mm for loading near the door)	
Vertical axis	1200mm (reduced stroke in case of double source+panel+linear sensor)	
Tilting axis	± 30°	
Rotation axis	± 360°	
X-RAYS SYSTEM		
MINIFOCUS		
X-ray source	320kV	450kV
Focal spot *	d= 0.4 / D= 1.0mm Power 800/1800W	d= 0.4 / D= 1.0mm Power 700/1500W
MICROFOCUS (optional)		
X-ray source	150kV	
Focal spot *	From 5µm with power 4W To 50µm with power 75W	
ACQUISITION SYSTEM		
Flat Panel *	Flat Panel 16" / ADC 16 bit / Pixel 200µm	
Linear sensor * (optional)	Length up to 614mm / 0.2mm Pixel Pitch	
INSPECTABLE VOLUME		
Maximum size (Ø x H)	700 x 1200mm (H reduced in case of double source+panel+linear sensor)	
Maximum object weight	Up to 500kg	
SUPPLY		
Type / Power	400V 50/60Hz 3P+N+PE / 8kVa	

* wide range available as needed

Cabinet inside view





APPLICATIONS

For use in multiple sectors

- ▶ AUTOMOTIVE
- ▶ AEROSPACE
- ▶ FOUNDRY
- ▶ PIPING
- ▶ WELDING
- ▶ RUBBER and PLASTIC
- ▶ ELECTRONICS
- ▶ RESEARCH
- ▶ REVERSE ENGINEERING

WHY CHOOSE GILARDONI?



EXPERIENCE AND KNOW HOW

Over 70 years of experience in the X-ray sector. Thousands of X-ray systems installed worldwide.



HIGH QUALITY MATERIALS

Research and development of innovative technical solutions ensuring high performance, low maintenance and long term reliability over time.



INVESTMENT LONGEVITY

Reliability, experience and the opportunity to have our highly specialized technicians perform preventive maintenance insure the durability of Gilardoni systems.



RESEARCH LABORATORIES RECOGNIZED "HIGHLY QUALIFIED"
WITH DECREE D.M. 9.10.1985 - L. 46/82 ART.4 - COMPANY CERTIFIED ISO 9001 ISO 13485



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