



IMAGING THE FUTURE SINCE 1947

POWERED BY



XEIS

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



IMAGING THE FUTURE SINCE 1947

Image acquired in radiology



XE-S

READY TO GROW
WITH YOUR BUSINESS

SMALL AND MODULAR

THE INNOVATIVE SOLUTION

IN THE FIELD OF X-RAY
INDUSTRIAL TESTING

PENETRATION

up to 160mm Al (or 30mm Fe)

INSPECTABLE VOLUME

up to Ø 420mm x H 600mm

LOADABLE WEIGHT

20kg

EQUIPPED WITH

- ▶ Minifocus source 160kV or 225kV
- ▶ Microfocus source
- ▶ 8" Flat Panel

MODULARITY

XE-S modular design allows for later installation of additional components and functions.

The system can expand and adapt to the needs of your growing business.

RELIABILITY

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

MANIPULATION SYSTEM

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

EASY TO MOVE

With a small footprint and a relatively light weight, the machine can be easily moved to fulfill many different requirements.

STANDARD LEAD SHIELDING 225 KV

Lead shielded configuration that ensures a following increase in the X-ray source voltage without replace the equipment

XE-S

NEW EQUIPMENT
FOR RADIOSCOPY AND
TOMOGRAPHY

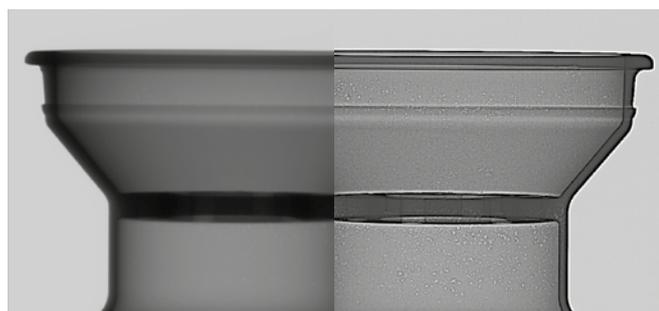


MAIN FEATURES

- ▶ Modularity
- ▶ High image quality
- ▶ Small footprint and light weight
- ▶ Advanced manipulator
- ▶ Easy loading
- ▶ Cutting edge software
- ▶ Low maintenance
- ▶ Operator safety
- ▶ Interconnection with company information system
- ▶ Ergonomic work position

HIGH IMAGE QUALITY

Achieved through the use of a digital panel (sensor) for image acquisition. This is paired with sophisticated processing software and proprietary filters.



Unfiltered image

Filtered image

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.

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.

CUTTING EDGE SOFTWARE

Management software can be easily programmed with a touch screen. Image processing software included on dedicated monitor.

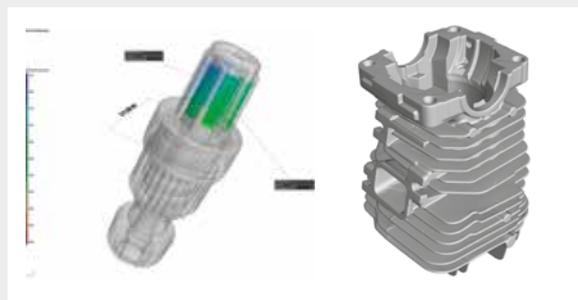
Additional components and functions can be added to the standard configuration.

TOMOGRAPHY

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

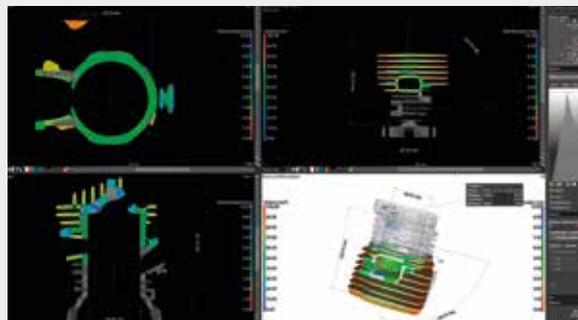
Depending on requirements, packages including different modules are available:

- ▶ 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).



X-WIDE VIEW

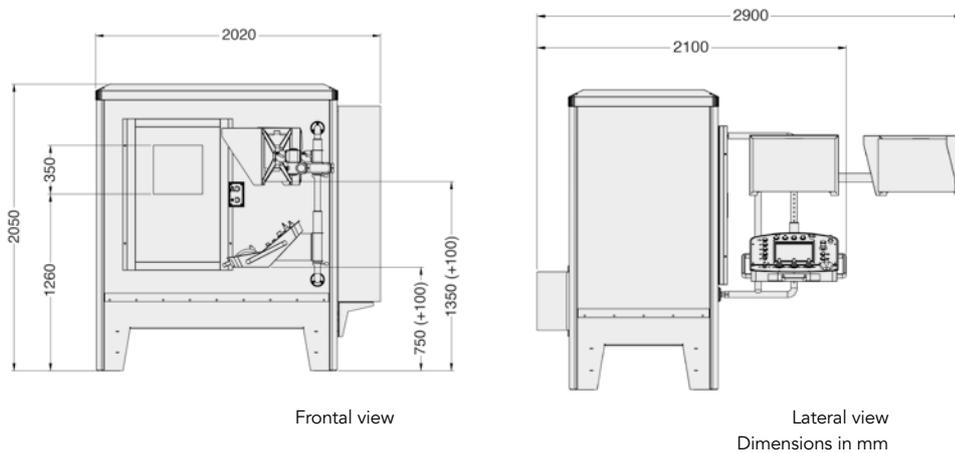
Enlarges the field of view up to 16" horizontally even with an 8" sensor.

X-SCATTERING FOCUS

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

DOOR WITH WINDOW

An X-ray shielded lead glass window can be installed on the door to view positioning inside the cabinet as an alternative to the standard configuration of camera and separate monitor.



VERSION	160kV	225kV
SHIELDED CABINET		
Dimensions (W x D x H)	See layout	
Installation area	3500 x 3500mm (for double monitor console)	
Weight	2200kg	
Number of doors	One sliding door	
Loading door size	600 x 950mm	
Console	Ergonomic and adjustable	
MANIPULATOR		
Maximum linear axis speed	10m/min	
Zoom axis	Zoom up to 9.5x	
Horizontal axis	400mm	
Vertical axis	600mm	
Tilting axis	± 45°	
Rotation axis	± 360°	
X-RAYS SYSTEM		
MINIFocus		
X-ray source	160kV	225kV
Focal spot *	d= 1.2mm Power= 500W	d= 0.4 / D= 1.0mm Pow- er 800/1800W
MICROFocus		
X-ray source	150kV	
Focal spot *	From 5µm with power 4W To 50µm with power 75W	
ACQUISITION SYSTEM		
Flat Panel *	Flat Panel 8" / ADC 16 bit / Pixel 200µm	
INSPECTABLE VOLUME		
Maximum size (Ø x H)	420 x 600mm	
Maximum object weight	20kg	
SUPPLY		
Type / Power	230V 50/60Hz 1P+N+PE / 4kVa	

* wide range available as needed

Cabinet inside view with different x-ray source solutions



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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