



IMAGING THE FUTURE SINCE 1947

POWERED BY



XE-XXXL

INDUSTRIAL EQUIPMENT FOR
RADIOLOGY AND TOMOGRAPHY



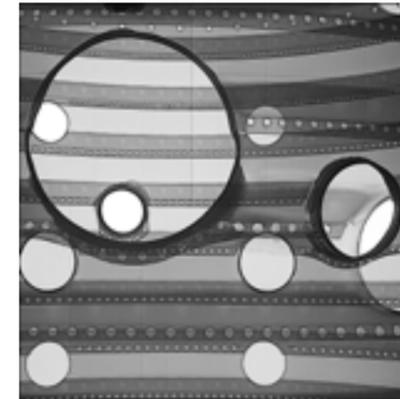


Join us into the future of industrial radiography
and tomography with our new systems
from the collaboration between Gilardoni and Eidosolutions



IMAGING THE FUTURE SINCE 1947

Radioscopic image of a welding



XE-XXL

EXTRA-WIDE INSPECTION AREA AND FLEXIBILITY
AT INDUSTRY SUPPORT

THE ROOMIEST, VERSATILE & 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 1200mm x H 2000mm

LOADABLE WEIGHT

120kg

EQUIPPED WITH

- ▶ Minifocus source
160kV or 225kV
- ▶ Microfocus source
- ▶ Flat Panel up to 17"

FROM MICRO TO MACRO COMPONENTS

MODULARITY

Modular design allows for later addition of components and additional functions to the initial configuration. This makes XE-XXL extremely adaptable and able to grow with the needs of your 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 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.

STANDARD LEAD SHIELDING 225 KV

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

MAIN FEATURES

- ▶ Flexibility
- ▶ Modularity
- ▶ High image quality
- ▶ Advanced manipulator
- ▶ Easy loading (optional extra extension loading plate)
- ▶ Easily programmable control software with touch screen
- ▶ Standard image processing software on dedicated monitor
- ▶ Low maintenance
- ▶ Operator safety
- ▶ Extra - wide inspection area
- ▶ Interconnection with company information systems
- ▶ Integration with robot

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.

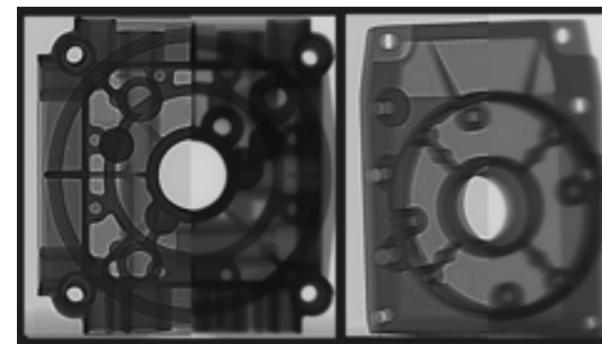


Immagine without filter and with EDF's filter

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.

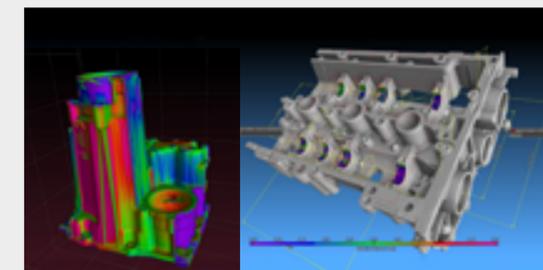
Additional components and functions can be added to the standard configuration.

TOMOGRAPHY (CT)

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

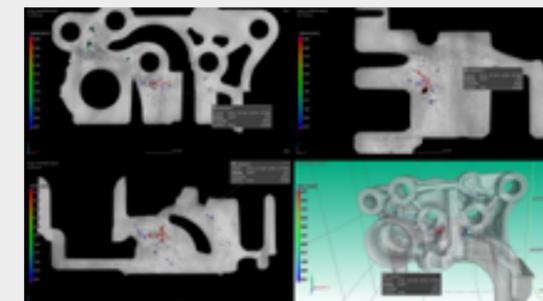
Depending on requirements, packages including different modules are available:

- ▶ 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 34" with a 17" sensor. This allows to have a very wide reconstructed volume in CT during inspection of big parts.

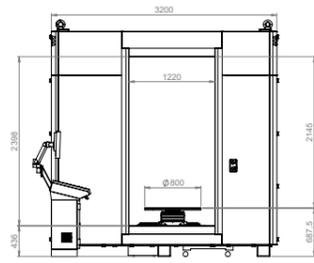
ADR - AUTOMATIC DEFECT RECOGNITION

All systems can be integrated with our automatic analysis software for identification and classification of discontinuities within the inspected parts. It can be customized based on customer's needs and specific applications

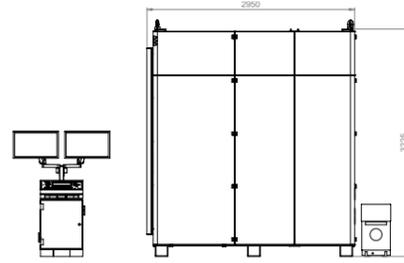
XE-XXL

NEW
EQUIPMENT
FOR RADIOGRAPHY
AND TOMOGRAPHY





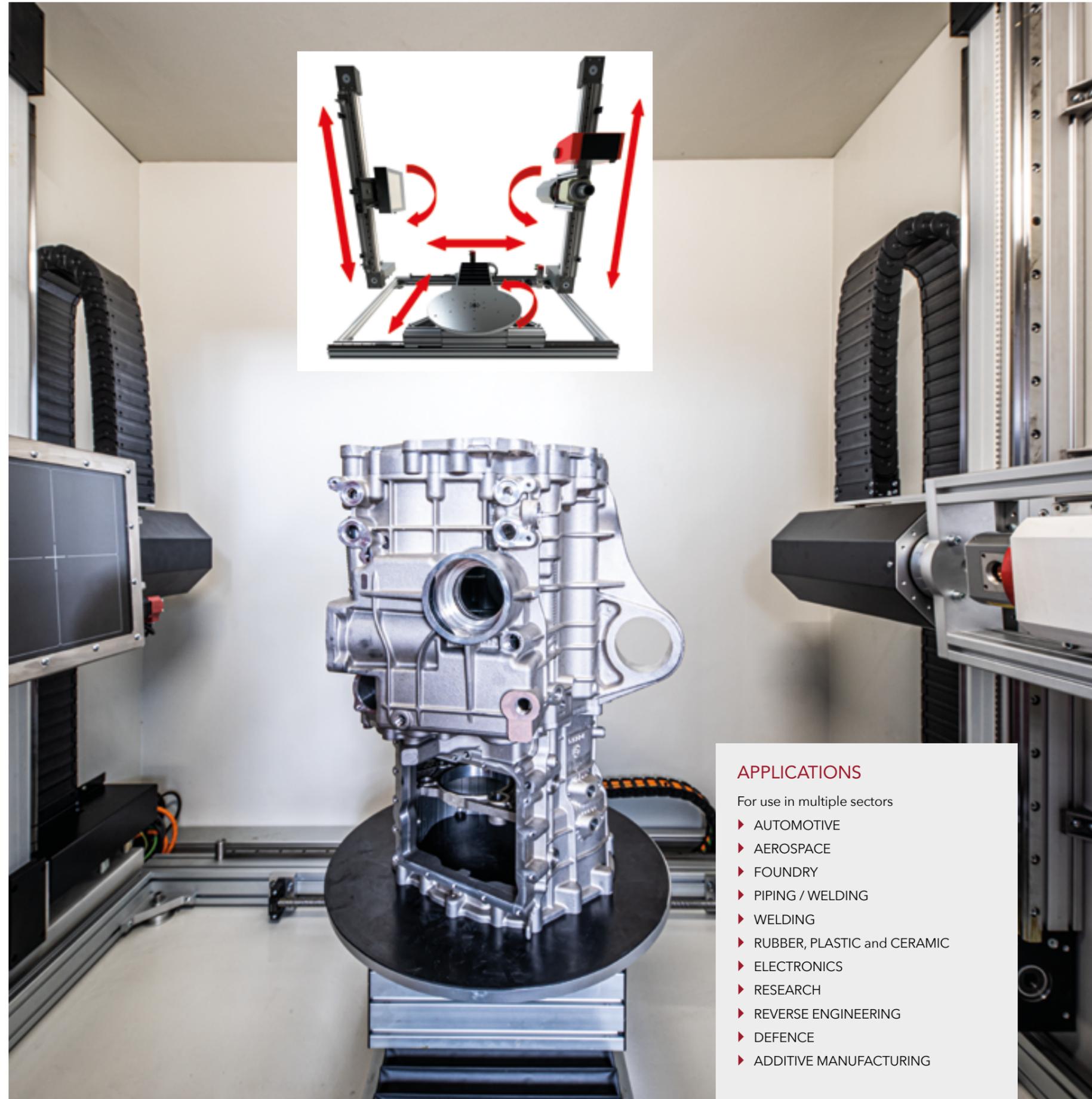
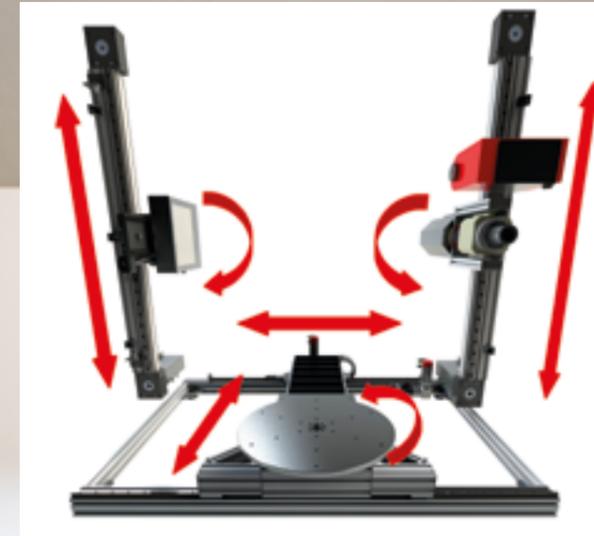
Front view



Side view
Dimensions in mm

VERSION	225kV
SHIELDED CABINET	
Dimensions (W x L x H)	See layout
Installation area	6000 x 5300mm
Weight	9500kg
Number of doors	Two sliding doors
Loading door size	1220 x 2398mm
Console	External, adaptable to the layout, adjustable monitor
MANIPULATOR	
Maximum linear axis speed	12m/min
Zoom axis	Zoom up to 15x
Horizontal axis	1200mm (+ 670mm for loading near door)
Vertical axis	2100mm (reduced stroke for double source minifocus +microfocus)
Tilting axis	± 30°
Rotation axis	± 360°
X-RAYS SYSTEM	
MINIFOCUS	
X-ray source	Range: 160-225kV
Focal spot *	d= 0,4 -1,2mm Power 300/1800W
MICROFOCUS	
X-ray source	150kV
Focal spot *	From 5µm with power 4W To 50µm with power 75W
ACQUISITION SYSTEM	
Flat Panel *	Flat Panel 9" - 17" / ADC 16 bit / Pixel 100-200µm
INSPECTABLE VOLUME	
Maximum size (Ø x H)	1200 x 2000mm (H reduced in case of double source minifocus+microfocus)
Maximum object weight	120kg
SUPPLY	
Type / Power	400V 50/60Hz 3P+N+PE / 8kVa

* wide range available as needed



APPLICATIONS

For use in multiple sectors

- ▶ AUTOMOTIVE
- ▶ AEROSPACE
- ▶ FOUNDRY
- ▶ PIPING / WELDING
- ▶ WELDING
- ▶ RUBBER, PLASTIC and CERAMIC
- ▶ ELECTRONICS
- ▶ RESEARCH
- ▶ REVERSE ENGINEERING
- ▶ DEFENCE
- ▶ ADDITIVE MANUFACTURING

Cabinet inside view with 7 axis manipulation system

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



IMAGING THE FUTURE SINCE 1947

GILARDONI S.p.A. a Socio Unico
Via Arturo Gilardoni, 1 - 23826 Mandello del Lario (LC) Italy +39 0341 705.111
cnd@gilardoni.it gx@gilardoni.it www.gilardoni.it