



Brief Introduction of Unicomp for NDT X-Ray

www.global-xray.com

2023.6.6



01

PART

Unicomp Group Introduction

Industrial X-Ray Intelligent Inspection Expert



- The Unique Public Company for Micro-focus X-ray Technology
- 20+ Years focused on X-ray R & D and Manufacturing
- A National Hi-Tech Enterprise with International Vision
- 3 Modern R&D and Manufacturing Factories with 60,000M2
- 750 Professional, 453 Patents and 41 software copyright
- UK BSI certified with ISO9001, ISO14001, ISO45001
- Products complied with CE, FDA and Radiation Permit
- Over 3500 Installations in 60+ Countries and Regions
- Wide Applications in Electronics, Semiconductor, Lithium Battery, Die-Casting, Pipewelding, Food & Beverage, Military & Aerospace
- National & Industry Standards Drafter
- Provincial Engineering Technology Research Center
- Provincial Science and Technology Award

I Park



Land area: 160,000m²
Buiding area: 43,000m²

Wuxi Airport: 5.0KM
Train Station: 1.5KM

ChongQing Unicom Industrial Park—under construction



3 Factories in China



Wuxi Unicomp

■ X-Ray for SMT, EMS, Semiconductor, PCBA, BGA, IC, LED, Connector, Cable, Electronics components

Chongqing Unicomp

■ X-Ray for automotive parts, hub wheel, tire, precision casting parts, steel pipe, steel cylinder, pressure vessel

Shenzhen Unicomp

■ X-Ray for Cylindrical battery, Stacked Battery, Spiral Battery, Prismatic Battery, Wearable Battery, Pouch Cell

Milestone



Leading Intelligent X-Ray Solutions Provider

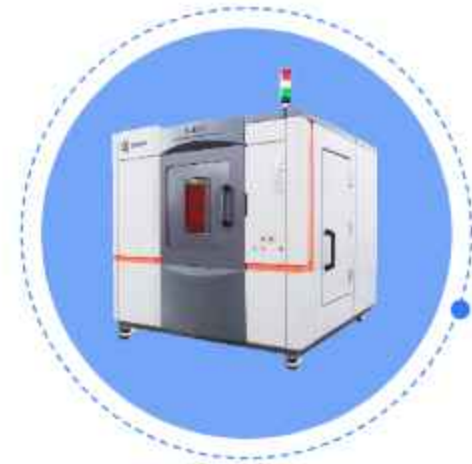
• Defects
Analyzing



• Quality Checking



• Reliability Assurance



• Process Improvement

Industries Applications



Electronics & Semicon



NDT



Public Security



Lithium Battery



Food & Beverage



Aerospace

+



Marine farming



Pharmacy Industry



Medical



Scientific Research



Archaeological Research

+ ...



Electronics



Industrial NDT



Food & Beverage



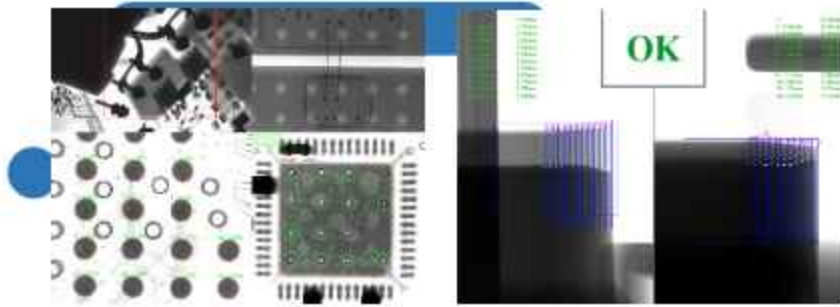
Semiconductor



Lithium Battery

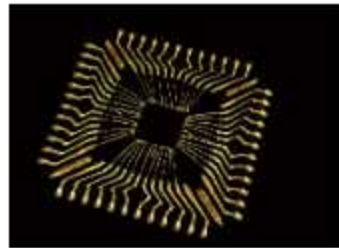
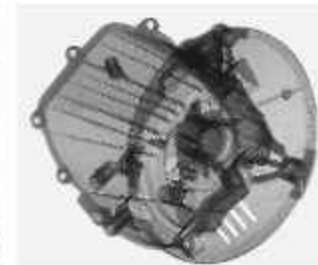
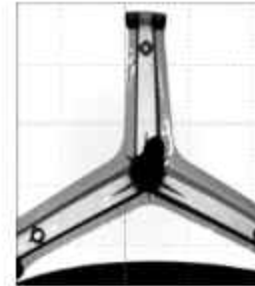
Baggage Security Scanner

X-Ray Images

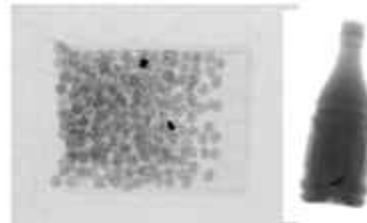


Electronics

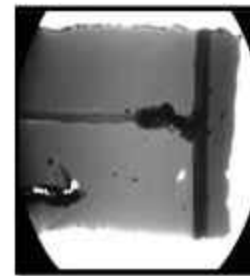
Lithium battery



IC Wire



Food & Beverage FMD



NDT



X-Ray Application Software Development



- X-Ray Real-time Display Processing Technology
- X-Ray Image Enhance to make defects visible
- Algorithm Simulation
- ADR Development
- 3D/CT Development

Electronics/Semicon X-ray (BU1)



Major Applications:

- SMT, EMS, Semiconductor, PCBA, BGA, IC, LED, Connector, Cable, Electronics components

Industrial NDT X-Ray (BU2)



Major Applications:

- automotive parts, hub wheel, tire, aerospace part, precision casting parts, steel pipe, steel cylinder, pressure vessel, military weapons, etc

Lithium Battery X-Ray (BU3)



Major Applications :

- Cylindrical lithium battery, Polymer Lithium Battery , Laminated Lithium Battery, Spiral Lithium Battery, Prismatic Lithium Battery

Public Security X-Ray (BU4)



Baggage / Luggage /Parcel Security Scanning :

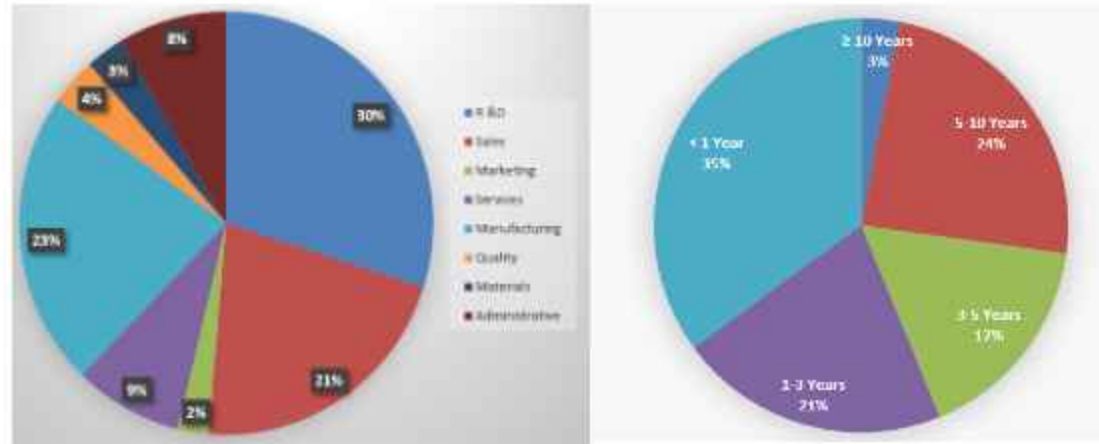
- Airport, Customs, Checkpoint, Law Court, Prison, Government Building, Church, Museum, Shopping Mall, Hotel, Office Building, Train Station, Metro, Exhibition Hall, Sports Center, Factory, Campus, Tourist Attractions





Human Resources

R &D	178
Marketing	8
Sales	97
Services	92
Manufacturing	303
Quality	16
Materials	15
Administrative	41
Summary	750



- High-quality talent composition
- Multinational company work experience
- Professional team with international ideas
- Proficiency in English Communication
- Strong high-tech equipment design and manufacturing capabilities



Patent S



	Applied	Authorized
 Utility patent	313	272
 Invention patent	101	31
 Industrial design	28	28
 International patent	4	2
 Software copyright	41	41

490+

Applied

370

Authorized

Certifications



From left to right: ISO 9001; Information Security certificate; ISO 14001; Ministry of Public Security Inspection Report; Radiation Permit; X-RAY CE; FDA; OHSAS18001; Trading Mark; Software copyright



Marketing Activities-----Overseas



USA IPC Exhibition



Productronica Munich



SMT Nuremberg



France Electronica



Nepcon Vietnam



Turkey Ankaros Casting



India Casting Show



Metalex Thailand



Turkey Win-Euro



Poland MiliPo



Dubai Intersec



Singapore Milipo



USA Security Exhibition



Brazil Security Exhibition



Mexico Security Exhibition

Marketing Activities----Domestic



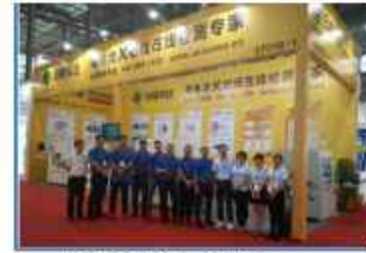
Nepcon Asia (Shenzhen)



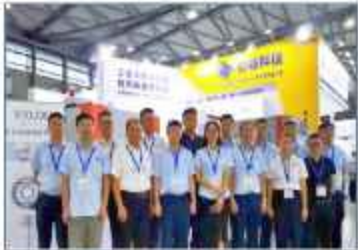
Productronica China



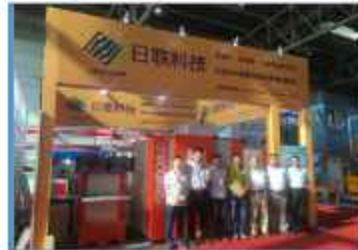
Electronics South Chia



Battery China CIBF



China Die casting (Shanghai)



Metal China (Beijing)



QC China Show



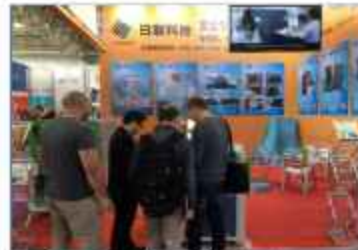
Die Casting Show (CQ)



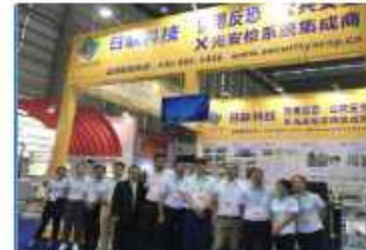
China Canton Fair



13th China National Sport Game



Security China (Beijing)



CPSE Security Shenzhen

Valued Customer-- Partial



Valued Customer-- Partial



Valued Customer-- Partial



 TESLA MOTORS	 Mercedes-Benz	 BMW	 Audi	 一汽-大众 FAW-VOLKSWAGEN
 HONDA	 EATON Power Quality Business Worldwide	 İlçim İnşaat San.	 ŞİRVANLI 1980	 RUTAS®
 southco CONNECT · CREATE · INNOVATE	 yumak	 振华集团 ZHENHUA GROUP	 DEC 东方电气 ORIENTAL ELECTRIC	 NERCITA
 宗申摩托	 TK	 峰华卓立 FHZL	 HLGY 宁波合力模具	 JA SOLAR 晶澳太阳能
 GREE 格力	 天津三和铁制品 TIANJIN SANHE IRON-PRODUCTS	 上海科曼 KOMMAN SHANGHAI KOMMAN	 ABB	 Exploit®
 COOPER	 DESAY SV automotive	 XDS 喜德盛	 中国航天	 CIMC 中集

Valued Customer-- Partial



Domestic Sales & Services Network



Overseas Sales & Services Network



02

PART



Chongqing Unicomp Technology

Chongqing Unicomp



Landscape



Reception



Office



Manufacturing Workshop



Testing Workshop



Warehouse

X-Ray Cabinet Fabrication



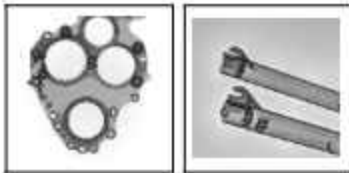
NDT X-Ray Equipment



NDT X-Ray Brief Introduction (1)



UNC Series



Standard Cabinet Type

- 160KV/225KV/320KV/450KV for option
- 5-axis C-arm manipulator
- Real-time display and high efficiency
- Suit for different size castings & auto parts
- Manual and CNC dual working mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards



UNF Series

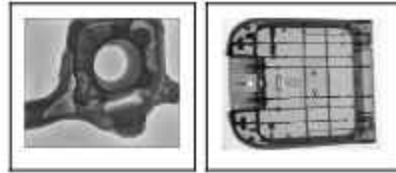


Large Size Cabinet Type

- 160KV/225KV/320KV/450KV for option
- Multi-axis manipulator mechanical design
- Real-time display and high efficiency
- Suit for large size castings & auto parts
- Manual and CNC dual working mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards



UNT Series



Inline Inspection System

- 160KV/225KV/320KV/450KV for option
- Inline inspection with a tunnel conveyor
- Real-time display and high efficiency
- Suit for 100% full inspection production
- NG/OK sorting/marketing system
- Suit for different size castings & auto parts
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards



UNS Series



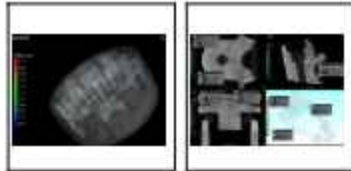
Small Size Cabinet Type

- 130KV/160KV/200KV for option
- Multi-axis manipulator mechanical design
- Real-time display and high efficiency
- Suit for small size castings & auto parts
- Manual and CNC dual working mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards

NDT X-Ray Brief Introduction (2)



UNCT Series

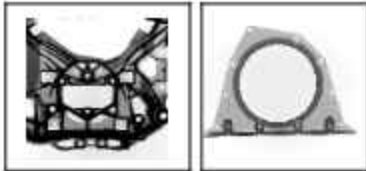


Computer Metrology (CT) System

- 160KV/225KV/320KV/450KV for option
- High precision 3D CT inspection system
- Apply for automotive, Aerospace, Lab, etc.
- Wall thickness analysis, defect detection,
- CAD comparison, measurement / CMM,
- fiber composite analysis, transfer phenomenon,
- mechanical simulation, reverse engineering, etc.
- Meet all international radiation standards



UNZ Series

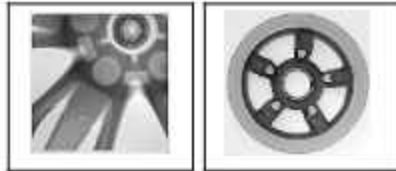


Rotation Table Cabinet System

- 160KV/225KV/320KV/450KV for option
- Rotation working table design
- Real-time display and high efficiency
- Suit for large size castings & auto parts
- Manual and CNC dual working mode
- Offline and inline mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards



UNL Series



Inline Wheels Inspection System

- 160KV/225KV for option
- Inline conveyor system design
- Real-time display and high efficiency
- Suit for 13"-24" wheel hubs inspection
- Internal defects voids, porosity, shrinkage, cracks, etc.
- Manual and CNC dual working mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards



UNH Series



Welding Inspection System

- 160KV/225KV/320KV/450KV for option
- Suit for pipes, pressure vessels, tanks, cylinders, etc.
- Real-time display and high efficiency
- Manual and CNC dual working mode
- Pre-embedded X-Ray inspection software
- Meet all international radiation standards

NDT X-Ray Inspection Software



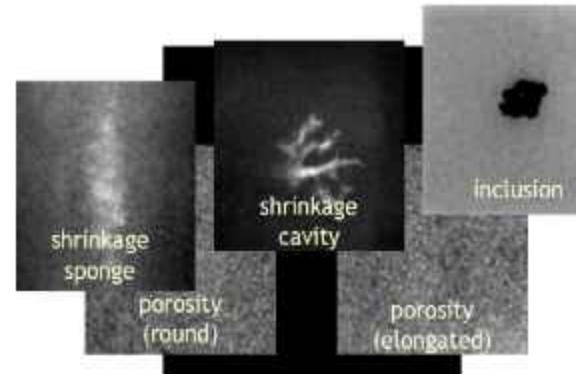
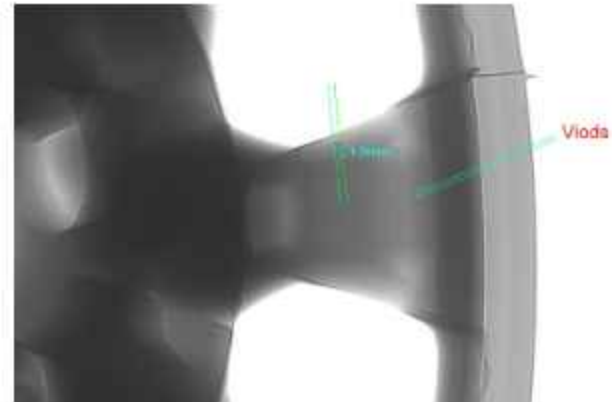
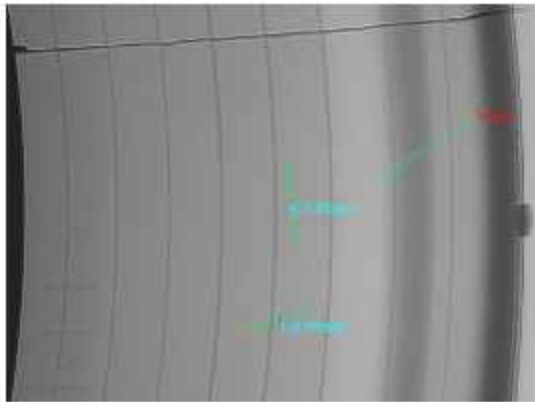
X-Ray Inspection Software



The X-Ray system has a one-key image enhancement function. The collected images are automatically processed into the best images through newest AI technology. As shown in the figure below: The defects are clearly visible after processing by the one-key enhancement algorithm;



X-Ray Inspection Defects (Voids, Porosity, Shrinkage, Cracks, etc)



NDT X-Ray Inspection Software



Skilled R&D team

1 All the electric and mechanism are all designed by Unicom itself.

2 The X-Ray inspection application software is designed by Unicom itself. And the algorithm and image processing is constantly updated and upgraded following the standards change, to ensure the equipment meets the latest testing demands.

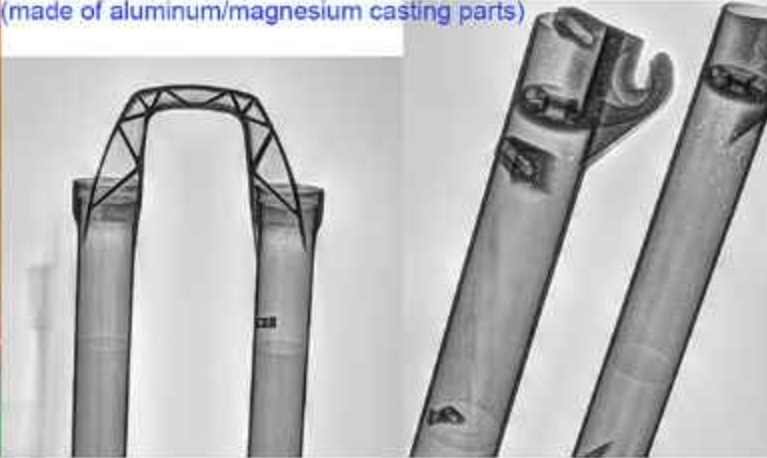
3 **The software is free upgrading** if there's any new changes on the software from Unicom.

4 Unicom is a participant in the formulation of China industry standards. And the Unicom X-Ray inspection software is the leader in China.

NDT X-Ray Inspection



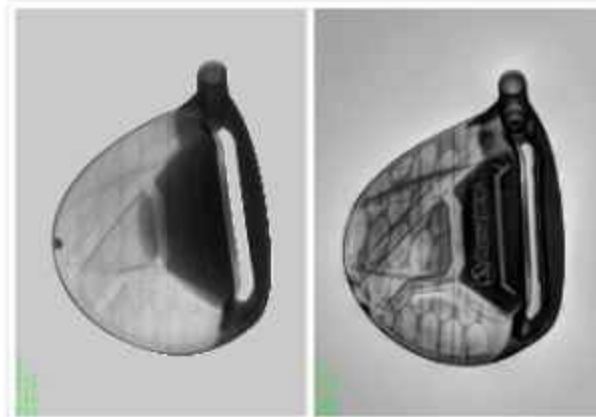
Unicomp X-Ray Inspect Bicycle Front Fork
(made of aluminum/magnesium casting parts)



NDT X-Ray Inspection



NDT X-Ray Inspection

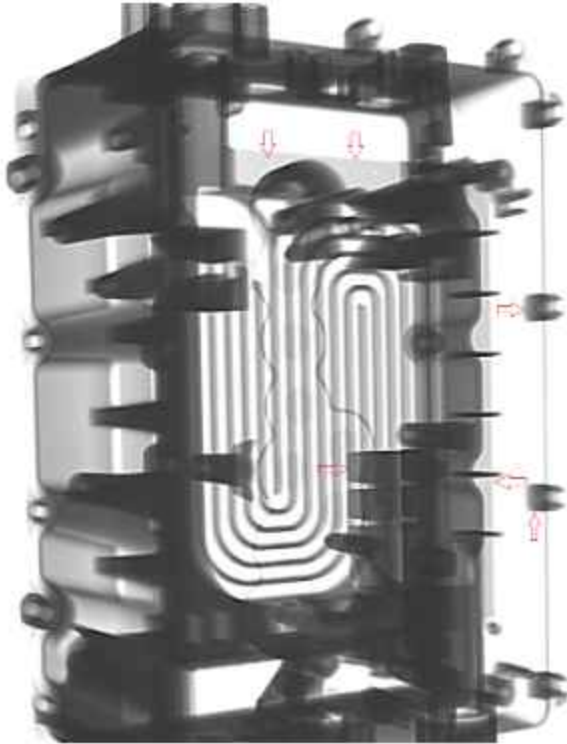


tanium alloy golf club head



Golf Heads

NDT X-Ray Inspection



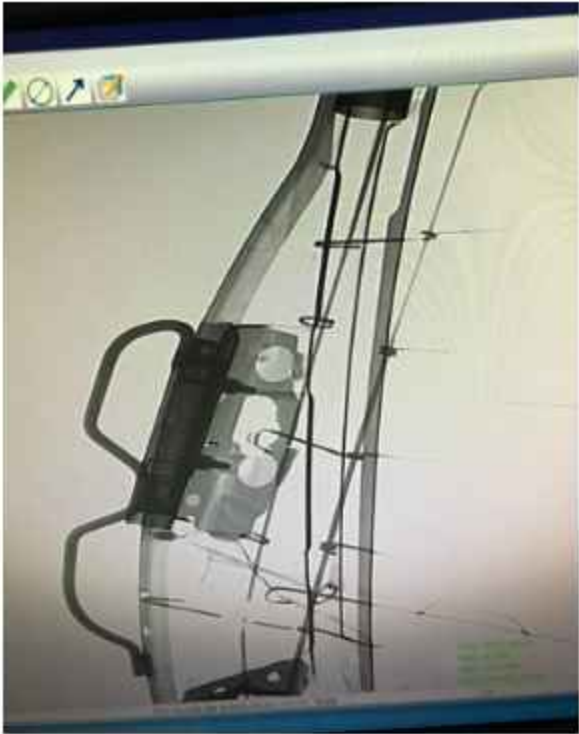
NDT X-Ray Inspection



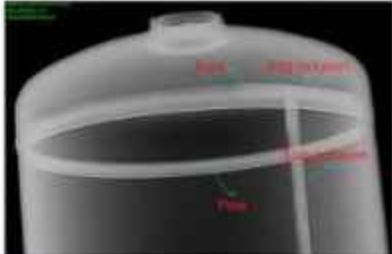
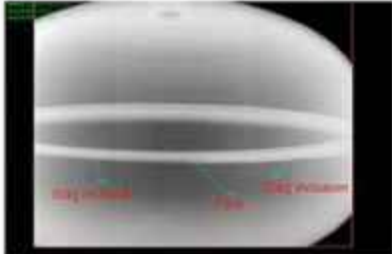
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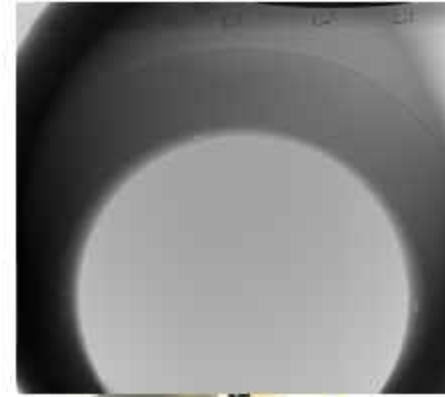
NDT X-Ray Inspection



NDT X-Ray Inspection



NDT X-Ray Inspection



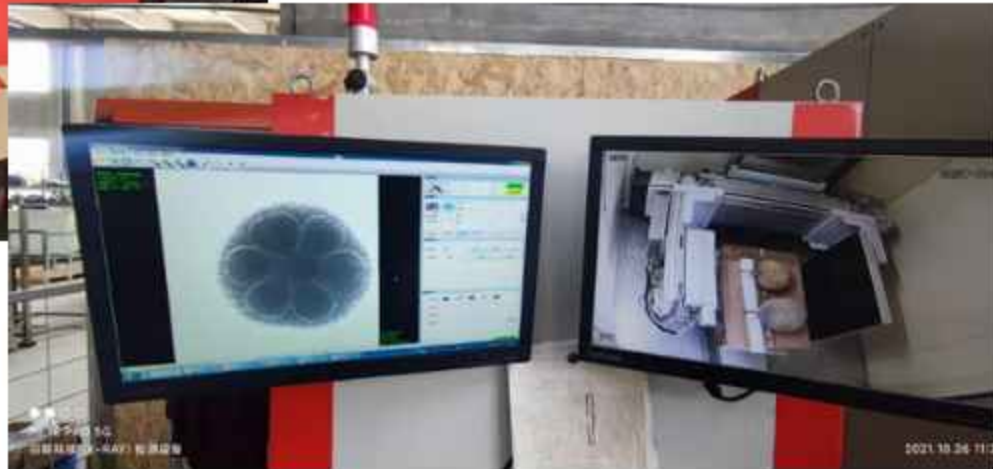
NDT X-Ray Inspection



NDT X-Ray Inspection



NDT X-Ray Inspection



Application-Precision Castings



Defects:
Voids/Porosity

Application-Automotive castings



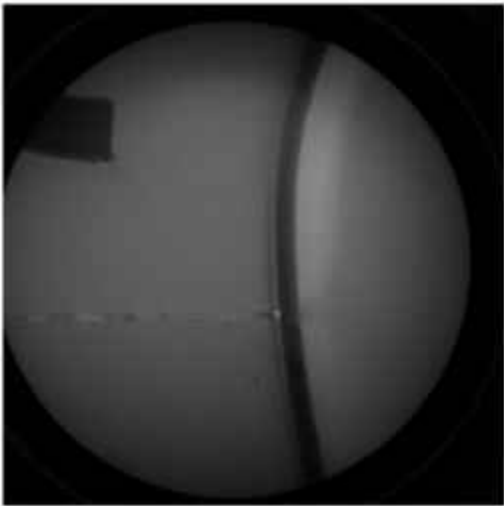
Defects:
Voids/Porosity

Application-Ductile Iron Castings

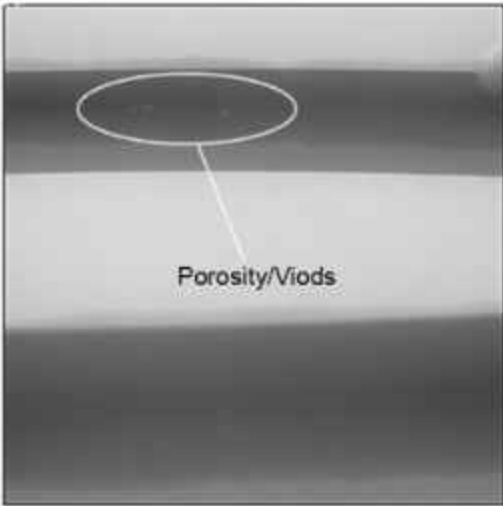


Defects: Cracks

Application-Pipes/Cylinders/Pressure Vessels



Missing Solder



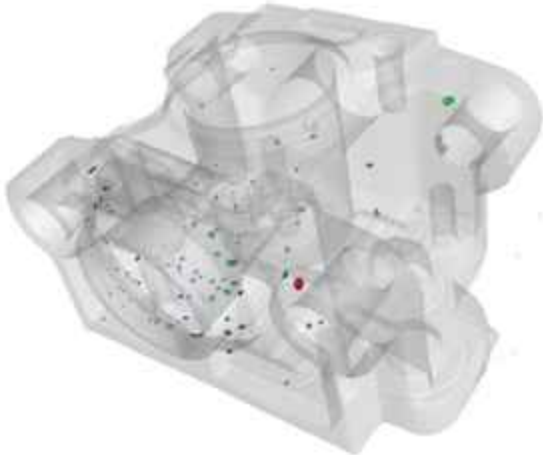
Porosity/Voids

Defects: Missing Weld & Cracks

Application-3D CT for Casting

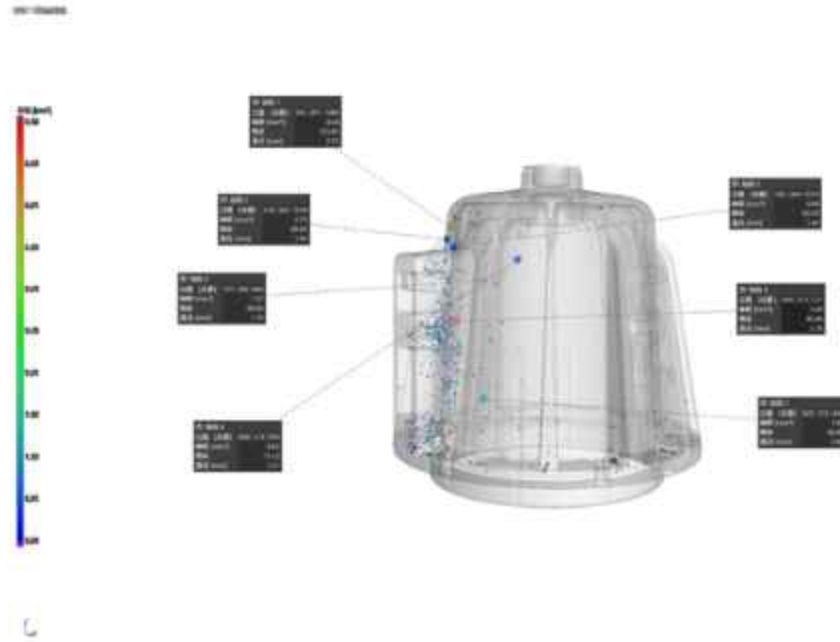


11

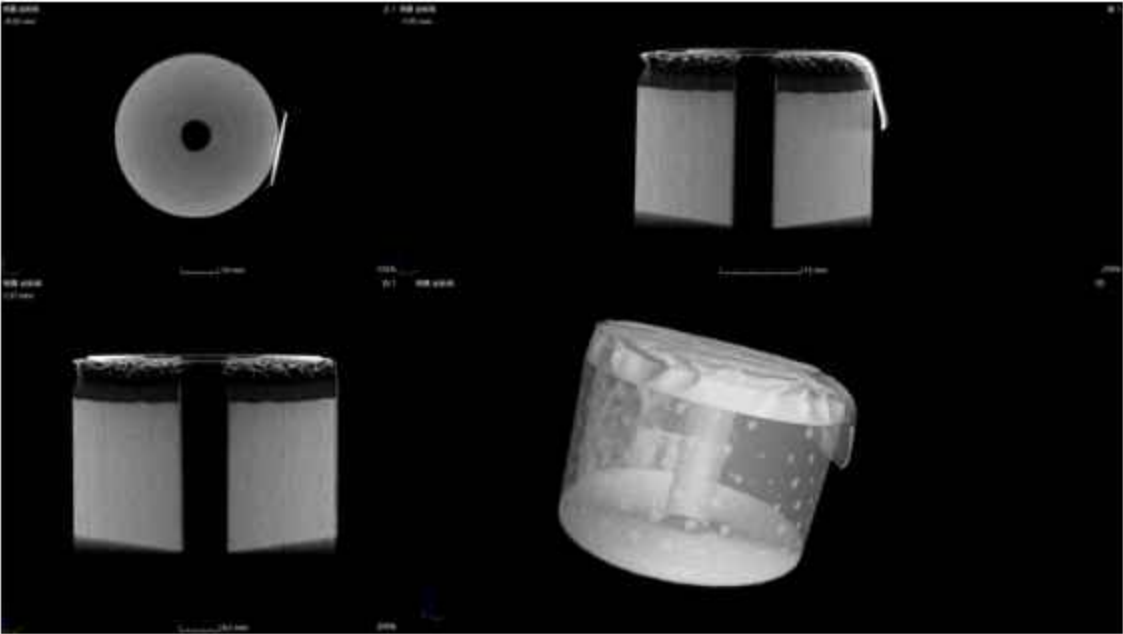


Defects: Missing Weld & Cracks

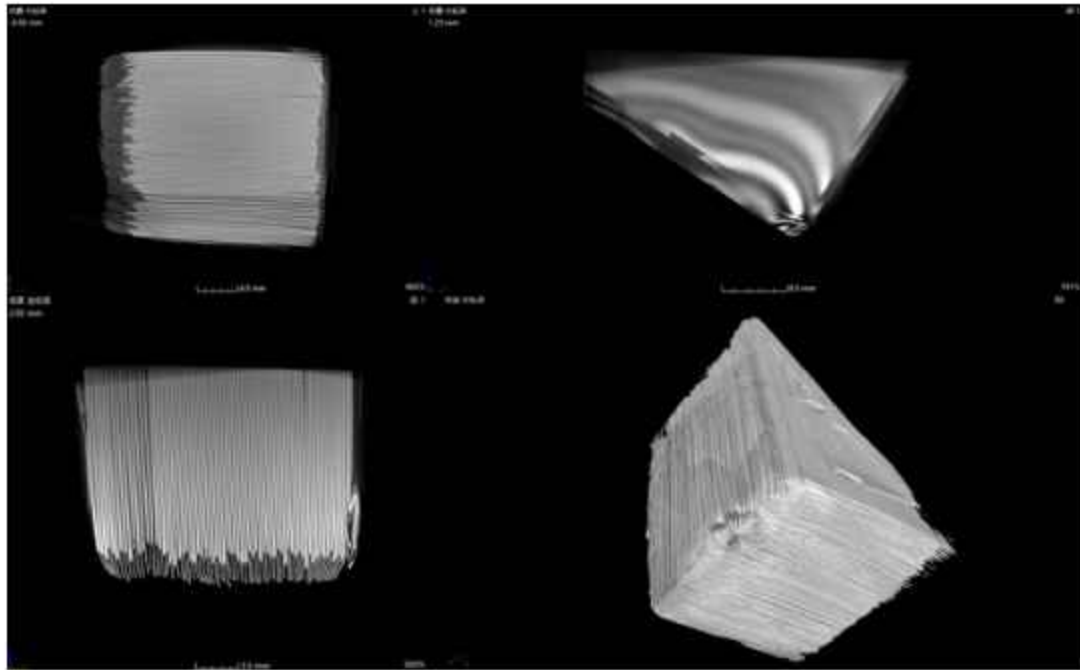
Application-3D CT for Casting



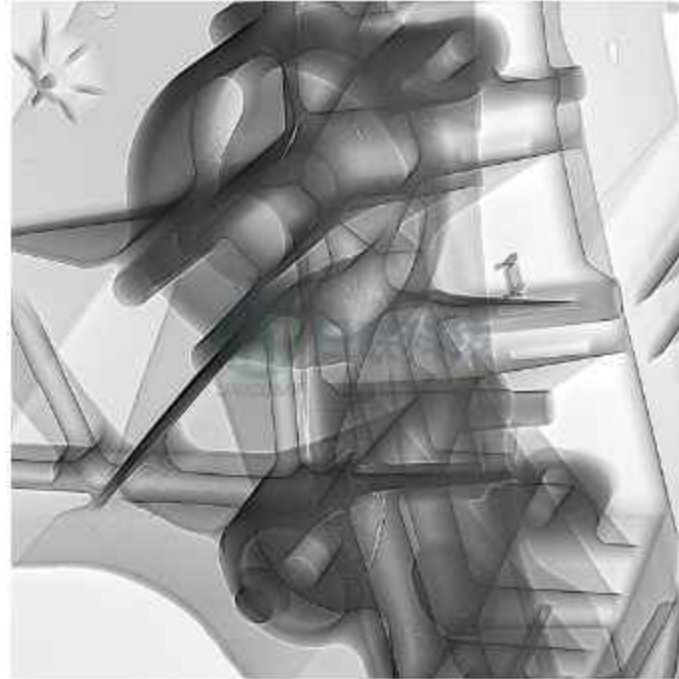
Application-3D CT for Cylinder Battery



Application-3D CT for Stack Battery

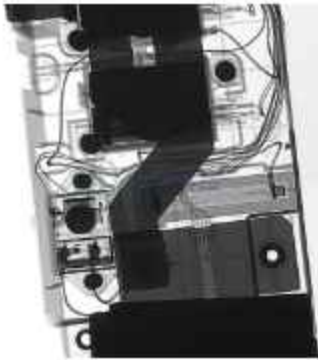


Application-Unibody/One Pieces Vehicle Casting



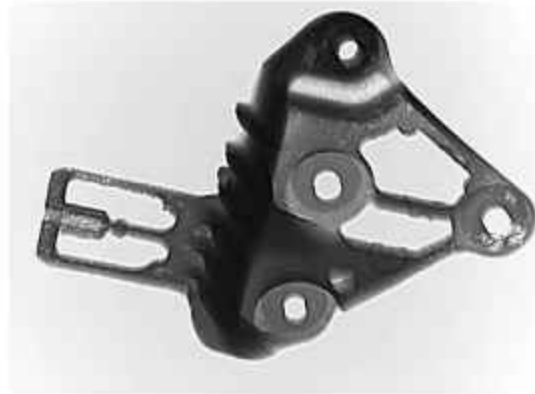
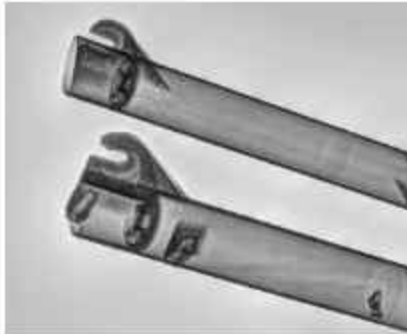
Unicomp is the first one to make the X-Ray inspection system for unibody/one piece vehicle castings, and already has several successful installation cases.

Application-Electric Vehicle Battery Modular

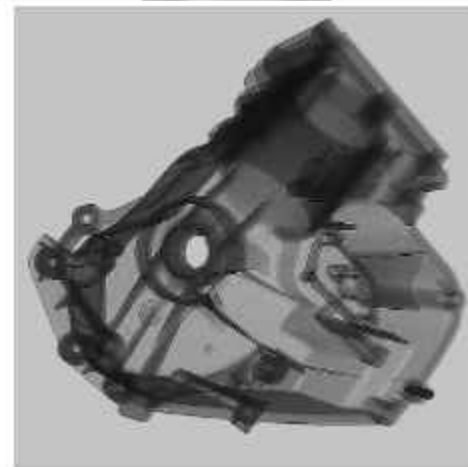
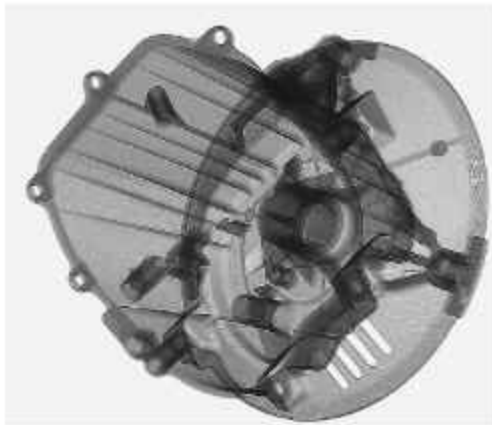


X-Ray Images for Quality Control

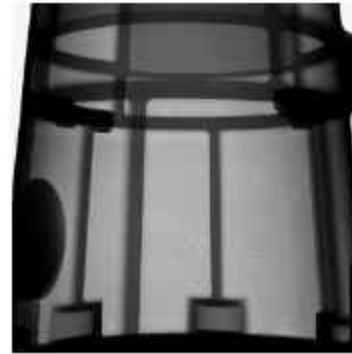
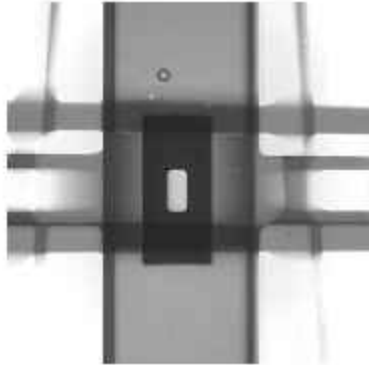
NDT X-Ray Images (1)



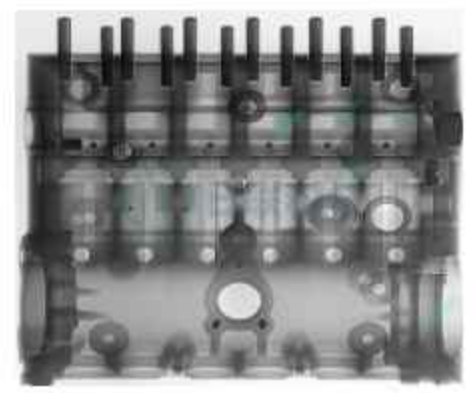
NDT X-Ray Images (2)



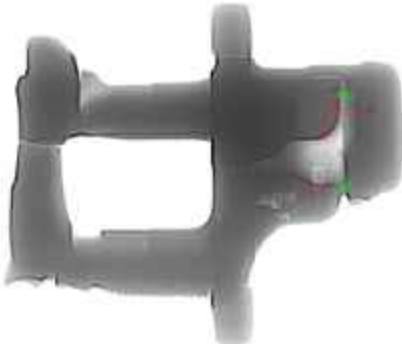
NDT X-Ray Images (3)



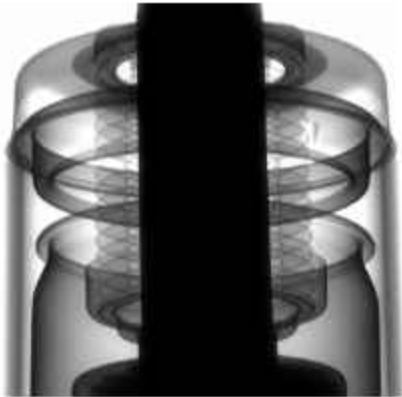
NDT X-Ray Images (4)



NDT X-Ray Images (5)



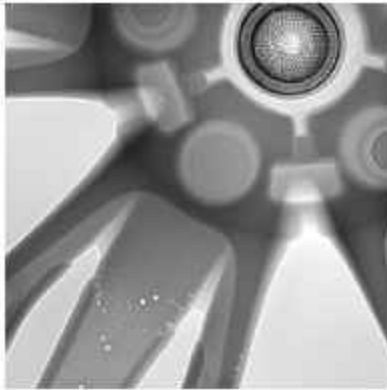
NDT X-Ray Images (6)



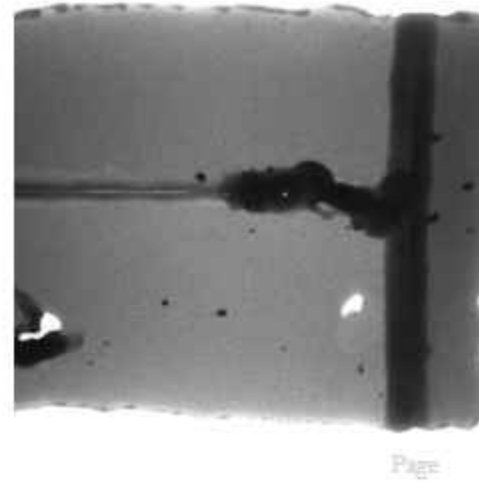
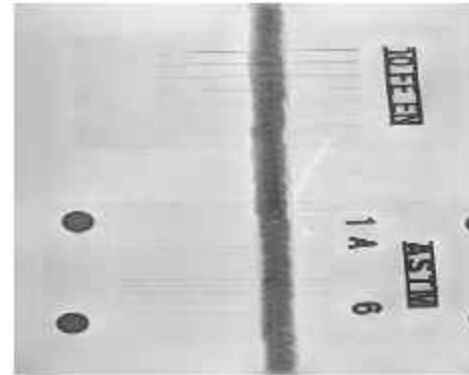
NDT X-Ray Images (7)



NDT X-Ray Images (8)



NDT X-Ray Images (9)



Installation Cases (Partial 1)



Installation Cases (Partial 2)



Installation Cases (Partial 3)



Installation Cases (Partial 4)



Installation Cases (Partial 5)



Installation Cases (Partial 6)



Installation Cases (Partial 7)



Installation Cases (Partial 8)



Installation Cases (Partial 9)



Installation Cases (Partial 10)



Installation Cases (Partial 11)





UNICOMP TECHNOLOGY

X-Ray Equipment Manufacturer & Solution Provider

Stock Code:688531

THAN

KS



 www.global-xray.com www.unicomp.cn


Wuxi Unicomp Technology(HQ)

 No.11, Lijiang Road, Xinwu District, Wuxi City,
Jiangsu Province, China.

Shenzhen Unicomp Technology

 Building 2A, Baoxin Technology Park,
Guangyuan 5th Road, Guangming District,
Shenzhen, China.

Chongqing Unicomp Technology

 1st Building, No.23 Fushun Blvd, Biquan
Street, Bishan District, Chongqing, China.