



Balteau NDT

www.balteau.com

AERONAUTICAL INSPECTION.

THE EXPERIENCE YOU NEED. BALTEAU, SINCE 1906

The aircraft industry is a much regulated sector requiring particular caution to the safety and reliability. This is why Balteau NDT wants to help by bringing its own expertise and know-how. From the complete home-made system to the simplest component, from research to development, from manufacturing to installation, we are the answer to your needs.

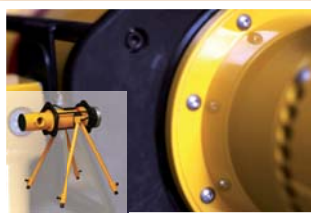
Through our wide range of products and the different applications already realized, Balteau NDT acquired a large experience in the aircraft industry. Our knowledge is not limited to the x-ray generators manufacturing but includes also the design of complete standard and/or personalized turnkey systems adapted to your needs with up to 9 motorized axes that can be fully automated.

You'll find some examples of different applications designed by Balteau NDT, showing our whole know-how with the possibilities and advantages of a well thought concept can bring.

PORTABLE EQUIPMENT FOR THE AERONAUTIC INDUSTRY

LLX SERIES - Constant potential

LLX110-DA



With 110kV and up to 12mA, LLX110-DA is the result of 25 years of Constant Potential equipment manufacture. This unit can be used in several applications such as Art & museum or where space is restricted for instance in aerospace applications.

LLX160-DA



With 160kV and up to 12mA, LLX160-DA is the result of 25 years of Constant Potential equipment manufacture. The specific shape given to the head of the generator makes it easier to use on field where space is always restricted for instance in aerospace applications.

LLX200-DA



With 200kV and up to 12mA the LLX200-DA completes its range of very lightweight and powerful portable X-ray generators. With the same advantages, this unit is made to be used on field where space is always restricted for instance in aerospace applications.

GF SERIES - Pulsed

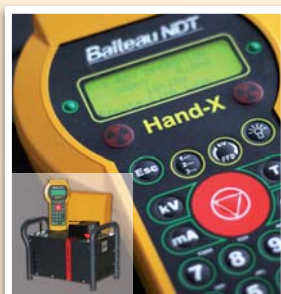
GFD165



With a maximum of 160 kV and 5 mA, the GFD165 is a compact gas insulated unit designed for applications where size and weight matter. It is an ideal machine for field applications where the unit needs to be frequently moved or inserted in tiny spaces.

CONTROL UNITS

HAND-X



The Hand-X® is the most advanced of all control units and is able to drive any of the Baltospot generators. It is a revolutionary wireless remote control which can operate a generator remotely from up to 100 m in open fields. The built in Dosimeter is ending the safety oriented features of the unit by providing the operator a reliable and convenient measuring device of exposure at the very place where he or she stands.

DC1 & CF2000



Safety oriented, nothing has been left aside in that field. The waterproof ergonomic keypad and the large robust handles attached on the side are making it ideal for on site jobs as well as desktop uses. The 4 lines backlit clear display is giving at all time the necessary indications to the users about the status of operations. A convenient bright yellow cover is protecting your unit when not in use.

MOBILE EQUIPMENT FOR THE AERONAUTIC INDUSTRY

XMD160



The XMD160 is the mobile version of the XSD160, first unit of a complete set based on a solid insulation HV module. This technology not only frees you from very specialized service operations but also guarantees that you will be able to get the most out of your machine at any time. A very high duty cycle and a wide variety of tubehead is available, therefore the unit can be easily turned into a Panoramic or a Directional.

XMD225



Big brother of the XMD160, the XMD225 works with up to 225kV tubehead but keeps all other characteristics and advantages of the XMD160. A very high duty cycle and a wide variety of tubehead is available, therefore the unit can be easily turned into a Panoramic or a Directional X-ray equipment with different focal spot sizes and can drive up to two individual filaments.

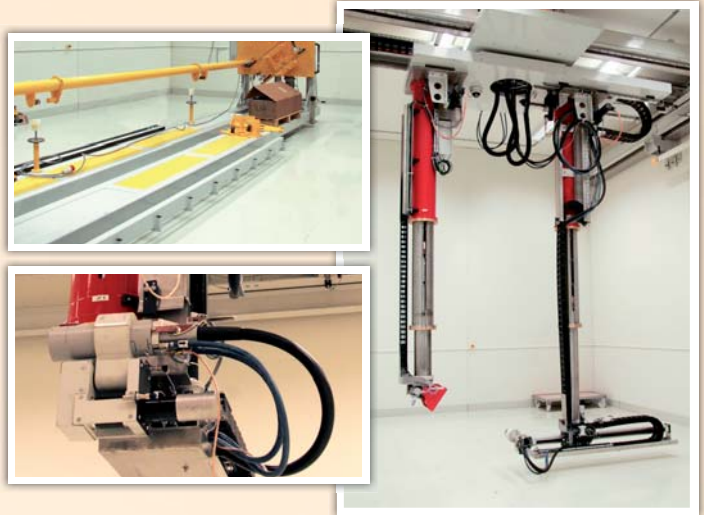
A FEW EXAMPLES OF PREVIOUSLY MADE SYSTEMS

AIS 912 - Inspection of honeycomb composite material

The AIS912 has been created with the aim to automate the inspection of composite material with honeycomb structure and as a result to accelerate the inspection process. Thanks to its 9 motorized axes and with the different software developed by our engineers, the AIS912 allows the records of different motions the operator needs in order to radiography the whole sample with only one action. Every picture is then saved on a server database and can be processed by our Image processing system IPS012.

MAIN CHARACTERISTICS

- A 9 axes motorized manipulator
- An X-ray generator type XSD
- An X-ray tube head type TSD or TSC
- A flat panel FP Digit
- A control unit type LS1
- A control desk



AIS203RD - Inspection of metallic & non-metallic components

The AIS203RD has been created to inspect metallic and non-metallic components. It has been built for every single element to be configurable and highly flexible to be used in different applications in digital radiography. The system is built around a robot for the detector/source manipulation in order to provide the user with every possible inspection angle for any components that can be fitted on the main manipulator. All sequences of inspection can be unique or repeated using the 'record and play' functions.

MAIN CHARACTERISTICS

- Shielded cabinet (optional)
- An X-ray generator type XSD
- An X-ray tube head type TSD or TSC
- A flat panel FP Digit
- A control desk
- A collimator
- A manipulator with horizontal rotating motion
- An industrial robot with multiple axes



AIS209 - System for jet engines maintenance



Every aircraft must follow very strong maintenance program which includes x-ray inspection. A versatile and automatic system is required to meet following functions: Adaptable to a lot of aircraft parts, reducing inspection time, reliability and accuracy.

MAIN CHARACTERISTICS

- Shielded cabinet (optional)
- A 5 axes motorized manipulator
- An X-ray generator type XSD
- An X-ray tube head type TSD or TSC
- A control desk
- A laser centering device to materialize the x-ray beam axis

AIS205 - System for casing of jet engine



The AIS205 has been built in order to speed up the final inspection for the casing of jet engines. A leaded table equipment with small windows allows the installation of all the needed films at one go.

MAIN CHARACTERISTICS

- Shielded cabinet (optional)
- A 5 axes motorized manipulator
- An X-ray generator type XSD
- An X-ray tube head type TSD or TSC
- A control desk
- A laser centering device to materialize the x-ray beam axis

AIS203 - System for static guide vanes



The inspection of the electronic beam welds between vane and collar is achieved with a 160kV generator & panoramic tubehead perfectly located in the center of the static guide vane. For each part, appropriate parameters are stored in a computer and called back using a single file name limiting possible human error.

MAIN CHARACTERISTICS

- Shielded cabinet (optional)
- A 5 axes motorized manipulator
- An X-ray generator type XSD
- An X-ray tube head type TSD or TSC
- A control desk



Balteau in words...

BALTEAU is a company based and established in Belgium since 1906. The activity of the power transformers successfully turned into the X-ray business in 1932. Years after years BALTEAU has affirmed its leadership leading the technology and setting the foundation of modern X-ray technologies. The first company ever to reach 200, 300 and 400 kV in the past, BALTEAU has today brought to the industry new standards that are consciously safety oriented to allow users to operate equipment safer and easier. BALTEAU is also greatly caring about environment and always uses top grade and specification materials to ensure that the efficiency of the equipment will be at the top of what is technologically achievable.

On the service and spares side, BALTEAU is providing the buyer with an exceptional and unequalled commitment of continuous service all through the life cycle of the product.

Qualified engineers and an extensive worldwide network dedicated to serve our customers is actively participating to the success of our brand and to your possibility of always getting, from the selection of your equipment to its follow up in service, a qualified and professional support.

Balteau in numbers...

BALTEAU has a very long established network in more than 40 countries, some of our agencies are of second generation proving they rely on the quality of our products and that they are totally committed to their business in NDT.

BALTEAU has produced more than 15.000 generators spread in more than 60 countries. We have 4 ranges of products and are the only manufacturer in the world to provide from Crawlers to Systems built into the same factory.

Balteau in names...

Patented names and commercial brandings are:

BALTOSPOT (Portable and Crawlers X-ray equipment)

- LLX (Constant potential portable equipment)
- GFC (Panoramic portable equipment)
- CERAM (Pulsed frequency portable equipment)
- HAND X (Radio remote control for portable X-ray)

BALTOGRAPH (Stationary X-ray equipment)

- XSD (HF CP X mobile and stationary X-ray equipment – High power)
- CLD (HF CP X mobile and stationary X-ray equipment – Low power)

BALTOSCOPE (Radioscopic and digital imaging)

AIS & Systems (Standard & custom made)

Produced by

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