

XSD generators - The muscles

A full X-ray equipment is made up of a generator (XSD), a control unit (LS1), a tubehead (TSD or TSC) and a cooling unit (WCU or OACU). Balteau XSD generators are 19" racks, built around a sealed, oil and gas free, solid stage voltage multiplier. SMD (surface mount devices) electronic is used to reduce maintenance time, size and weight. XSD are either monopolar or bipolar: generators are 100, 160, 225, 320, 420 and 450 kV. Powers available are 4 to 4,5 kW.





BALTOGRAPH XSD225/4KW





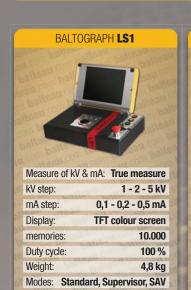
LS1 control unit - The brain

The LS1 is a large screen computer based unit providing all controls and comfort options to help the user and the production in getting the best of the inspection. LS1 are intelligent units able to display, retrieve, record all exposure related data and can also be used as a part of an entire system for controlling the X-ray device through a remote controlled connection. It includes many automatic features like the well known automatic preheating system.

LS1 also exists in a C version that can be integrated in automatic systems.

XMD160 & 225

XMD is the mobile version of the XSD. A robust trolley has been specially designed to bring your powerful XSD to the very location of your inspections. Equipped with 2 wheels, well balanced to be easily handled by its hooks if necessary, the trolley is taking all accessories including the 3 or 4 kW closed circuit water cooling unit. No matter if you have narrow doors to pass, the width has been calculated to be kept to the minimum. XMD can be delivered as a 160 or 225 monopolar unit.





BALTOGRAPH LS1C2





TSC or TSD tubeheads - The eyes

The tube is the ultimate and probably the most important element of your equipment. The tube will give the final characteristics in terms of output, beam and distribution. This is the reason Balteau offers a large variety of tubes. TSC series is giving Panoramic 360° beams while TSD are giving Directional beams. All our tubes may be equipped with standard bolted flanges or quick lock flanges for easy tube swap or mobile applications.

What about if you need a very specific tube? If we don't have it, we have the ability to design it for you according your own technical requirements!

Monopolar tubeheads



Directional (TSD) or panoramic (TSC), monopolar tubes are giving the user the required flexibility for fixed or mobile installations. These tubes are made out of an insert into a shielded housing with a ceramic HV cone to connect the generator.

Inside the housing the cooling circuit is made of a serpentine tube in which the coolant fluid (water and eventual additive for cold countries) which will remove calories at the very heart of the anode. This ensures a very good and efficient protection of the anode and the target improving also the lifetime of the tube. Connections are quick connectors with direction identification.

The HV connection end can be equipped with a fixed or a quick flange allowing a quick tube change when more than one irradiation techniques are used in the same application.

Bipolar tubeheads



When HV increases, the dielectric strength of even advanced materials is very often not sufficient to provide a good electrical insulation. This is the basic reason for building Bipolar tubes when more than 225kV is expected.

These tubes are easily recognizable by the fact that two HV ends are present with a specific Anodic and Cathodic identification. Due to the high difference of potential, the cooling media is always dielectric oil.

Balteau is also proposing a wide variety of robust and handful stands and holders to carry these tubes that are heavy and therefore sometimes hard to handle manually. See our specialists.

Bipolar tubeheads will need a oil cooling to remove calories at the very heart of the anode and the cathode.

For detailed information about our range of tubeheads, please refer to the Tubes Brochure or to the flyers.

Cables - The nerves

Cables are making the essentials links between elements. Their numbers have been reduced to the most to limit costs and failure possibilities. Connectors and cables are of industrial type and are selected especially for the current they drive making impossible the mixing of the cable into connectors. HV cables exist in 5, 10, 15, 20 meters or made on demand: HV cable length limits are however applying on different generators, refer to the precise brochure for more details.

Interconnections



TUBE POWER SUPPLY OIL COOLING DOOR SWITCH CLIGNOTIX SIGN 61

Bipolar



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 software and digital imaging)

AIS & Systems (Standard & custom made)

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