

*The top of the series in terms of power and penetration, the XSD450 is a bipolar unit of the BALTOGRAPH series. Made up of two 225 kV unit (Cathodic + Anodic), it uses the same modules as the monopolar unit and can consist in an upgrade of an existing monopolar unit from the XSD series.*

*Dedicated to heavy walled applications that deserve both a high power and a high penetration, this unit makes no compromises to quality. With our very stable HV generator block, the output will fit into any of your applications and detectors types. Equipped with the same features as all the BALTOGRAPH series, this unit is extremely versatile and robust. Various tubeheads can be connected and our specialists will help you in defining which is the most adapted to your applications.*

*Combined to our computerized control panel (LS1 series), it can be integrated in any environment, can replace the majority of existing units without big changes or any, or can be installed as a single end unit.*



## **Versatility and performances**

The size is compact and the number of internal elements has been reduced to the most. This leads not only to a size reduction but also in a decrease of internal connections which are generally known to be the cause of failures with time. The multi stage solid insulated HV block can be changed in less than two hours and so are electronic boards that can be visually diagnosed (DEL) in case of trouble.

XSD can drive up to 4,5 kW dual filament tubeheads. Load curves and current limits are automatically adapted to the connected insert thanks to the pre coding of parameters into the control unit (LS1). Using a switching frequency of more than 30 kHz, this unit is virtually ripple free which ensures the user to get a very stable dose for instance in radioscopic inspections or non film techniques. In conventional Radiography (films), the very high dose output allows you to increase your production cycle by decreasing exposure time or to increase your quality standards by a better exposure quality.

## **Safety first**

Balteau NDT has always given the top priority to safety. The XSD series is equipped with all necessary securities and safety features that you have always found on our units. From temperature securities that are helping in protecting your unit against overheating, to HV arc counting that helps you, in case of weakness of that very sensitive part, preventing from very

expensive damages, built in securities are accessible to different parts of the service menu for further diagnostic and cure. Passive and active securities are acting like information only or like real switches that need to be addressed before being able to continue using the machine.

Messages displayed on the LS1 colour display are giving you a clear view of the running status of your machine and even about the service needs if any. All our XSD units are generating service reports that can be viewed and downloaded at anytime on portable memory devices.

## **Environment friendly**

Energy saving becomes one of everyone's problem and concern. Our units have been designed to use the minimum power that is to be delivering the highest output for the minimum power consumption. With the XSD you only use the power you need.

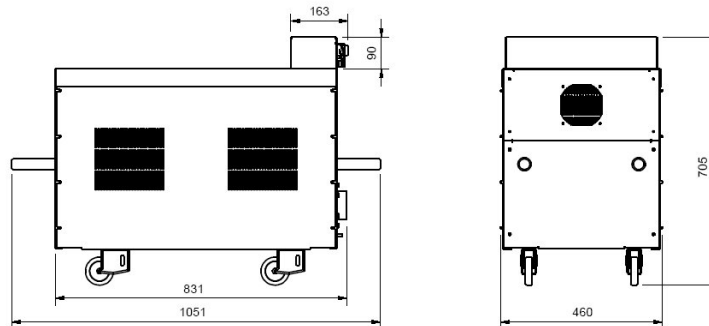
On the service side, we have also been thinking about environment and our solid insulation system will not only ease the repair processes but also will not require the specific tooling used for oil or gas recycling.

## **Comfort of use**

A lot of handy features have been included into the XSD series: among these, fully automatic preheating process, different tubeheads management, exposure curves and tools, different exposure modes, identified user access, data reporting and exporting,...

## Specifications

### Mechanical



Weight : 116 + 114 kg

### Electrical \*

High voltage range	kV	5 – 450
Tube current range	mA	0,1 - 30
Maximum output power	W	4500
HV Frequency	kHz	30
Insulation		encapsulated
Ripple		0,15% PP
Voltage	V	230 (-15% +10%)
Frequency	Hz	47 – 63
Current	A	25

\* Tentative data

### Cables

Power supply cable	m	10 ***
Interconnection	m	20 ***
HV cable	m	5
HV connection		Standard R24/R28
6 configurable and programmable I/O		Sub-D9

\*\*\* others available on request

### X-ray tube \*\*

Type	Directional
Focal spot (IEC336)	From 0,8 x 0,8 to 3,5 x 3,5

\*\* See specific documentation

### Environmental

Storage temperature	°C	-20 to +85
Operating temperature	°C	0 to +45

### Optional accessories

Warning flashing light with 20 m cable, closed circuit type oil/air cooling unit, closed circuit type oil/water cooling unit with chiller, water security box

### Producer

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### Distributor