

SITE-X 360 PORTABLE X-RAY GENERATOR

OUR CHALLENGE...

« To increase the reliability of on-site X-ray techniques and reduce their operating costs »

To effectively meet this challenge, ICM's engineers have improved on what are largely tried and tested techniques.

The technological options were determined at every development stage on the basis of quality, general reliability and the need to substantially increase the life of the X-ray tube.

If you are impressed by the reliability of the SITE-X generators, you will be totally astounded by the exceptional level of their performance.

A performance which will enable you to take advantage of the most favourable overall operating costs on the market.

A SIMPLE AND EFFECTIVE PRINCIPLE

All SITE-X units have a rod anode : the focal spot is outside the SF6-insulated high-voltage generator.

Because maximum advantage is derived from this ideal configuration, for one and the same thickness, the volume of lead needed for standard radiation protection is considerably reduced.

The reduced weight thus achieved makes it possible to invest more effectively in the quality and general improvement of the level of performance (robustness, cooling, accessories, etc.).

A SIMPLE AND EFFECTIVE PRINCIPLE

All the SITE-X 360 are equip-ped with an internal «carrousel» containing a lead cap and 4 diaphragms calibrated for the most used films.

Being protected from accidental on-site losses and having a total weight of 1.0 kg this very practical device replaces approximately 20 kg of fragile and space consuming accessories.



PERFORMANCE

360kV is a worldwide premiere on the portable X-ray equipment market. This great performance provides the possibility to the operator to radiography objects thicker than 80mm of steel!

The Site-X range of products are the first choice portable equipments for on site applications: the Site-X X-ray generators ensure their great performances starting from a temperature of -25°C up to 70°C and are IP65.

A high-efficiency heat exchanger has been developed in collaboration with the Institute of Thermo-mechanics of the University of Liege. This permits a 100% working cycle under completely safe conditions and at the same time reduces the anode temperature by 50%.

The weight of the Site-X 360 is only 46kg, without guard rings.

APPLICATIONS

- * Pipelines double wall radiographies
- * Shipyard inspections
- * Spheric stocking tanks
- * Large Focal Film Distance (FFD)
- * Concrete

ACCESSORIES

- * Protective cradle
- * Carrier box
- * Telescopic steel support
- * Audible flashing light
- * Pipe clamps

MEASUREMENT AND CONTROL

Another first in a portable, the SITE-X has a facility for direct measurement of the high voltage. This essential information permits the control system to guarantee the stability and reproductibility of the radiological parameters.

CONTROL UNITS

All SITE-X units are automatically identified and controlled by the control unit without any intervention by the operator. Thanks to this versatility it is now no longer necessary to immobilise a panoramic generator for the Crawler application only.

On site or in the workshop the SITE-X units are connected to the 14 kg SCU286 (Standard Control Unit - see specific documentation). The latter is powered either by the mains or by a 3.0 kVA power generator set.

In the case of automatic intra-tube control (battery-powered crawlers) these same SITE-X units are automatically identified and controlled, 120 VDC input, by the CCU186 - 4kg (Crawler Control Unit - see specific documentation).

SITE-X 360 FEATURES	UNITS	C3603 with CCU186	C3605 with SCU286	D3605 with SCU286
Output voltage range	kV	120 to 360	120 to 360	120 to 360
Output voltage selection step	kV	1	1	1
Tube current range (constant power output up to 5mA)	mA	1 to 2.5	1 to 5	1 to 5
Tube current selection step	mA	0.1	0.1	0.1
Radiation geometry	-	Pan. Orthog.	Pan. Orthog.	Directional
Maximum useful angle of X-ray beam	(°)	360 x (2x20)	360 x (2x20)	60 x 40
Dimension of optical focal spot	mm	Ø 6 x 1	Ø 6 x 1	2.6 x 2.6
Inherent filtration	mm	2.5 (Al) + 0.4 (Ni)	2.5 (Al) + 0.4 (Ni)	2.5 (Al) + 0.4 (Ni)
Carrousel of internal diaphragms with lead cap	-	no	no	yes
Working cycle at 40°C ambient temp.	%	100	100	100
Operating temperature range	°C	-25 to +70	-25 to +70	-25 to +70
Storage temperature range	°C	-40 to +80	-40 to +80	-40 to +80
SF6 insulation pressure at 20°C	kg/cm ²	5.0	5.0	5.0
Cooling fan supply voltage	VDC	24	24	24
Weatherproof level	-	IP65	IP65	IP65
Penetration into steel at max. power (FFD=700mm/Film D7pb/D=1.5/T=20 min)	mm Fe	69	73	82
Guard rings	-	no	yes	yes
Position of interconnection socket	choice	Axial/Radial	Axial/Radial	Axial/Radial
Number of telescopic centring device (FFD=700mm)	-	-	3	1
Maximum leakage dose at 1 m according to DIN at 360 kV	mSv/h	10	10	10
Microcontroller HT measurement circuit (kV and mA)	-	yes	yes	yes
Overall dimensions (Ø rings x length)	mm	Ø280 x 875	Ø400 x 930	Ø400 x 930
Total weight without guard rings	kg	42	46	46



Contact your regional distributor:



XSpec Technology Sdn Bhd

No.8, Jalan Industri USJ 1/8
Taman Perindustrian USJ 1
47600 Subang Jaya, Selangor
MALAYSIA

Tel : +60 3 8023 1161 /2
Fax : +60 3 8023 1167
<http://www.xspec.com.my>
Email: inquiry@xspec.com.my