

AIS228

Shielded Cabinet for X-ray inspection of welded samples and castings

The AIS228 is a very compact equipment that provides you with numerous advantages. A wide variety of samples as well as different thicknesses can be inspected with this unit. This shielded cabinets includes, as irradiating source, a directional X-ray generator from the very well-known and efficient Baltospot range. These cabinets are generally made of a steel structure with lead reinforcement to assure a proper shielding against radiation outside of the confined area ("sandwich" type assembly : steel-lead-steel). This user-friendly equipment can be very easily operated with a maximum safety.

High level of safety

The safety is really one very important criteria for such an equipment. That's the reason why it has been developed in such a way that all the parameters influencing have been taken into account. Here are some of the features included insuring maximum safety:

- The leakage dose rate ($<0.25\mu\text{Sv/h}$) fits the most severe international regulations on radiation hazards. All public can stay close to the equipment without any danger.
- A redundant safety on the manual swivel door, consisting of a double magnetic sensor supervised by two level 4 safety relays and of an electro magnet that secures the door with a locking strength of 3000 N.
- A 360° panoramic tower light that indicates the equipment status (red flashing, amber and green lights)
- A main switch with a removable key that avoids unauthorized people to operate the equipment without trained operator.
- Two emergency stop buttons (one on the shielded cabinet and one on the control unit).



Variety

A multi purpose X-ray generator is able to inspect many types of parts. The spectrum of is particularly rich with low energies, providing you with an extremely high contrast on your films.

Simplified manipulation

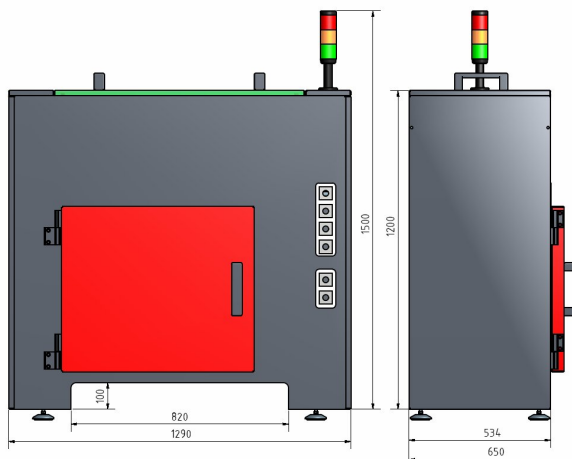
A large door with an aperture of 550 mm x 550 mm and the possibility to place films as large as 500 mm x 360 mm. A cross graved in the bottom steel plate facilitates film centring.

A nice and fully integrated design

A fully integrated design allows all the electrical components, all controls and all radiation proof labyrinths for airflow and cables to be integrated inside the shielded cabinet.

Specifications

Mechanical		
Cabinet size (L x D x H)	mm	1290 x 650 x 1500
X-ray compartment (L x D x H)	mm	980 x 500 x 790
Door size (L x H)	mm	550 x 550
Focal spot - Film distance	mm	850
Irradiated area at FFD	mm	500 x 360



Weight: 900kg

Electrical	
Mains (single phase)	V 230
Frequency	Hz 50
Current consumption	A 9
X-ray characteristics	
Baltospot Ceram 235 (Also available with Ceram35 & GFD165)	
Environment	
Operating temperature	°C From 10°C to 35°C
Safety	
X-ray leak @ 10cm of the wall	< 0,25 µSv/h (fully protected cabinet)
Misc.	
Optional "Stand" (1310x555 x502) with/without doors, Elevated floor to allow fork lift uses for transportation, Movable roof for easy service, Electro magnetic lock with "fail free" active function, door on hinges	

Producer

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