

XXG-2505 X-Ray Flaw Detector, Interference-free Portable X Ray NDT Equipment



Product Details:

Place of Origin:	China
Brand Name:	MITECH
Model Number:	XXG-2505

Payment & Shipping Terms:

Minimum Order Quantity:	1 set
Packaging Details:	Standard export carton box
Delivery Time:	Goods in stock, could send out within three days
Payment Terms:	100% T/T, Paypal or Wester Union
Supply Ability:	500 sets/month

Detailed Product Description

XXG-2505 X-Ray Flaw Detector, Interference-free Portable X Ray NDT Equipment

XXG-2505 Portable X Ray Flaw Detector

Description:

The frequency-converted and gas-insulated portable X-ray NDT equipment with ZY-2000 controller, is one of upgrading generation of the products by the MitechCo.,Ltd. Besides of its advantages of small size, light weight, easy to use, simple operation and self-troubleshooting, this new type of controller has the excellent performance of strongly interference-free capability, good working stability and operating reliability. With the popularization and spreading application of this new type NDT X-ray equipment all over the country, it has been recognized and welcomed by the customers from different industries

This portable X-ray NDT equipment can be used in the fields of ship-building, mechanical manufacturing, aviation, railroad, pressure vessel, boiler, petroleum, chemical and national defense, performing the non-destructive testing, especially at the construction site or high above the ground applications.

The X-ray NDT equipment is used to show the internal discontinuity or faults of materials, products or welding from a radiographic image on a film, according to the principle of the different absorption of the X-ray for different material depending on the different thickness of the materials. We can evaluate the quality of materials and products based upon the characters, size and position of the discontinuity or faults.

In this series of products, the X-ray generator is furnished with SF₆ gas as an insulation, electric fan for forced cooling, the controller is equipped with the advanced microprocessor controlling system, SCR modules for voltage regulation, converting modules to control the primary and secondary side of the SCR as well as the advanced electronic circuits of voltage & current stabilization and interference-free .Thus, the performance of the complete equipment has been improved remarkably.

Specifications:

Model			XXQ-2005	XXQ-2505	XXQ-3005	XXQ-3505	
Parameters	XXQ-1005	XXQ-1605	XXG-2005	XXG-205	XXG-3005	XXG-3505	
	XXH-1005	XXH-1605	XXH-2005	XXH-2505	XXH-3005	XXH-3505	
		XXG-1605	XXHA-2005	XXHA-2505	XXHA-3005	XXHA-3505	
Item							
Power supply	AC220V+/-10% 50Hz						
Power (kW)	>1.0	>1.5	>2.5	>2.5	>3.0	>3.5	
Tube voltage (kVp)		60-160	80-200	130-250	150-300	200-350	
Max. Tube current (mA)	5	5	5	5	5	5	
Focal Spot Size (mm x mm)	Q.G	1.0*1.0	1.5*1.5	1.5*1.5	2.0*2.0	2.5*2.5	2.5*2.5
	H	1.0*1.5	1.0*2.0	1.0*2.0	1.0*2.4	1.0*2.5	1.0*2.5
	HA	1.0*2.5	1.0*3.5	1.0*3.5	1.0*5.0	1.0*6.0	1.0*6.0
Weight (kg)	Tube	Q	11	15	20	35	44
		G		14	20	32	37
		H.HA	11	15	20	35	44
	Controller	11					
Radiation angle of X-ray	Q	40°					
	G	360°X25°					
	H.HA	360°X30°					
Max. penetration	Q. G	8	20	29	39	49	59
	H	6	18	26	36	46	56
A ₃ steel (mm)	HA		15	24	34	40	50
Insulation	SF ₆ gas						
Environmental	-25°C-+40°C						

temperature	
Relative Humidity	No more than 85%
Working conditions of X-ray photography	<ol style="list-style-type: none"> 1. Focus to Film: 600mm 2. Exposure time: 5 min. 3. Film: Tian Jing, Model III, intensified by double lead foil. 4. Treatment in the darkroom: Temp. 20 +/-2°C, 5 min. blackness 1.5
Safe working pressure	0.35 ~ 0.50 Mpa
Of gas	(Operation will be prohibited in the case less than 0.35 Mpa)

Competitive Advantage:

1. The controller of the equipment adopts the single-phase SCR bridge-rectifying circuit and the rectified voltage turns to the smooth dc voltage by means of the LC filter. This voltage converts to the frequency-adjustable square-wave pulse with single flow direction, becoming

the electrical supply of the X-ray generator to power the HV pulse transformer. The mA stabilizing unit will change the frequency of the single-phase pulse against the voltage increase or decrease of the X-ray tube filament, to ensure the stable current in the X-ray tube. The kV regulating unit can continuously control the voltage up and down, to meet with the different radiographic requirements for different materials. The interference-free circuit improves the shock-resistance capability to protect the control system from the HV shock from the X-ray generator.

2. The X-ray generator is equipped with the electric shock absorber. The anode of X-ray tube is connected to the ground and an over temperature protection device is furnished. Once the over-temperature occurs, the controller is able to shut off the HV automatically to prevent the X-ray tube being damaged from the over temperature.

3. The voltage fluctuation of power supply can be regulated automatically by the controller itself, ensuring to get a stable X-ray. The exposure time and operation status of the complete equipment is controlled by the microprocessor. The longest exposure time can be set to 5 min.

Standard Package:

1. X-ray generator 1pc.
2. Controller 1pc.
3. Connecting cable (10 cores) 25m 1pc.
4. Power cable (2cores) 10m 1pc.
5. Earthing wire 5m 1pc
6. Fuse (20A) 5pcs
7. Fuse (3A) 5pcs
8. Bag to contain accessories 1pc