

XXH-1605 X Ray Flaw Detector

Product Description

The frequency-converted and gas-insulated portable X-ray NDT equipment with ZY two thousand controller, is one of upgrading generation of the products by the Mitech Co., 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, and 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

Model		XXQ-1005	XXQ-1605	XXQ-2005	XXQ-2505	XXQ-3005	XXQ-3505
Parameters		XXH-1005	XXH-1605	XXG-2005	XXG-205	XXG-3005	XXG-3505
Item			XXH-1605	XXH-2005	XXH-2505	XXH-3005	XXH-3505
			XXHA-1605	XXHA-2005	XXHA-2505	XXHA-3005	XXHA-3505
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
		H	1.0*1.5	1.0*2.0	1.0*2.0	1.0*2.4	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
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 A ₃ steel(mm)		Q. G	8	20	29	39	49
		H	6	18	26	36	46
		HA		15	24	34	40
Insulation		SF ₆ gas					
Environmental temperature		-25°C-+40°C					
Relative Humidity		No more than 85%					
Working conditions of X-ray photography		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 Of gas		0.35 ~ 0.50 Mpa (Operation will be prohibited in the case less than 0.35 Mpa)					