300kV X-ray Machine

Panoramic & Glass Insert

LONG MANUFACTURING HISTORY

In 1964, the first portable flaw detector was born in Aolong group. Today, Aolong group has more than 50 years of manufacturing history. During this period, the design is constantly improved and innovated, the function is becoming more and more reasonable and perfect, and the quality is reliable and durable.

CAREFUL SELECTION OF PARTS

This type of portable X-ray flaw detector adopts the selected glass X-ray insert carefully.As we all know, X-ray insert is the core part of the whole set of machine. The performance and quality of the insert directly determine the quality of the whole set of machine. If the machine is used in the factory, it is more bang for the buck.

IMPROVEMENT OF MATERIAL SELECTION

In addition to the X-ray insert, the core part of the whole set of equipment is the high voltage coil. However, after the products are put on the market, there has been a dilemma that high voltage coil quality accidents occur frequently, but it can't be solved. In 2006, through the continuous exploration of engineers, we finally found the key to the quality problem of high voltage coil. The uneven diameter of enameled wire used in high voltage coil led to the damage of high voltage coil. After repeated tests, the quality problem of high voltage coil was solved after replacing the enameled wire imported from Germany.

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SOLID AND DURABLE STRUCTURAL DESIGN

The generator of portable flaw detector isprotected by end ring, which is made of nearly 30mm solid steel and wrapped with rubber to prevent vibration and slipping. The end ring prevents damage to the core components in the event of a collision.

SUPER PENETRATION

A portable flaw detector equipped with the seletcted 300 kV glass X-ray insert with the beam angle of 30 × 360 ° and 25 × 360 ° option. Under the working voltage of 300kV and focal distance of 600mm, it can penetrate 47mm Q235 steel.

POWER SUPPLY CONDITIONS

The AC-mains voltage range spans from 220 to 240 VAC and the frequency is 50Hz. The improved power factor correction module ensures stable operation, where AC-mains are unstable.

CERTIFICATES

CE（No. 3J190703.DARTQ22, Technical Construction File no. TCF-GGC-190625-064）

Verification to:

Standard: EN61010-1:2101, EN 61326-1: 2013

Related to CE Directive:

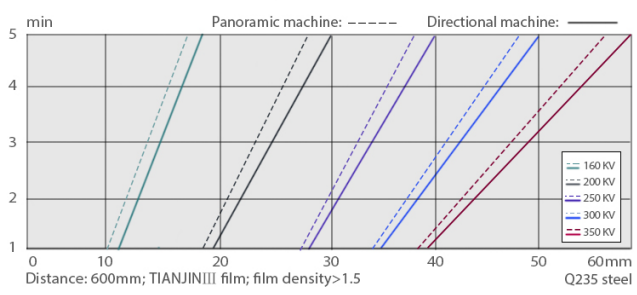
2014/35/EU（Low voltage）

2014/30/EU（Electromagnetic Compatibility）

MAIN CONFIGURATION

No.	Item	Specification	Qty
1	X-ray generator(with glass tube)	300kv, 5mA	1
2	Controller	T4777	1
3	Connection cables with two plugs	25m	1
4	Power supply cable with one plug	10m	1
5	Grounding cable	5m	1
6	Accessories bag		1

Exposure chart



SPECIFICATIONS FOR XXH-3005 CONE TARGET

WEIGHT	40kg
HEIGHT	830mm
FOCAL SPOT SIZE EN 12543	1.0×2.3mm
HIGH VOLTAGE ADJUSTMENT	170~300kv
mA ADJUSTMENT	5.0mA
MAX.PENERATION	44mm/Q235 steel, 600mm focal distance
BEAM ANGLE	30×360°
TEMPERATURE RANGE	-10℃ to +40℃
CONT.EXPOSURE 35℃, 300kv/5.0mA	Max.5min

SPECIFICATIONS FOR XXH-3005 FLAT TARGET

WEIGHT	40kg
HEIGHT	830mm
FOCAL SPOT SIZE EN 12543	1.0×2.3mm
HIGH VOLTAGE ADJUSTMENT	170~300kv
mA ADJUSTMENT	5.0mA
MAX.PENERATION	47mm/Q235 steel, 600mm focal distance
BEAM ANGLE	25×360°
TEMPERATURE RANGE	-10℃ to +40℃
CONT.EXPOSURE 35℃, 300kv/5.0mA	Max.5min

Aolong Group