

IGX-250/11/FB



Product Description

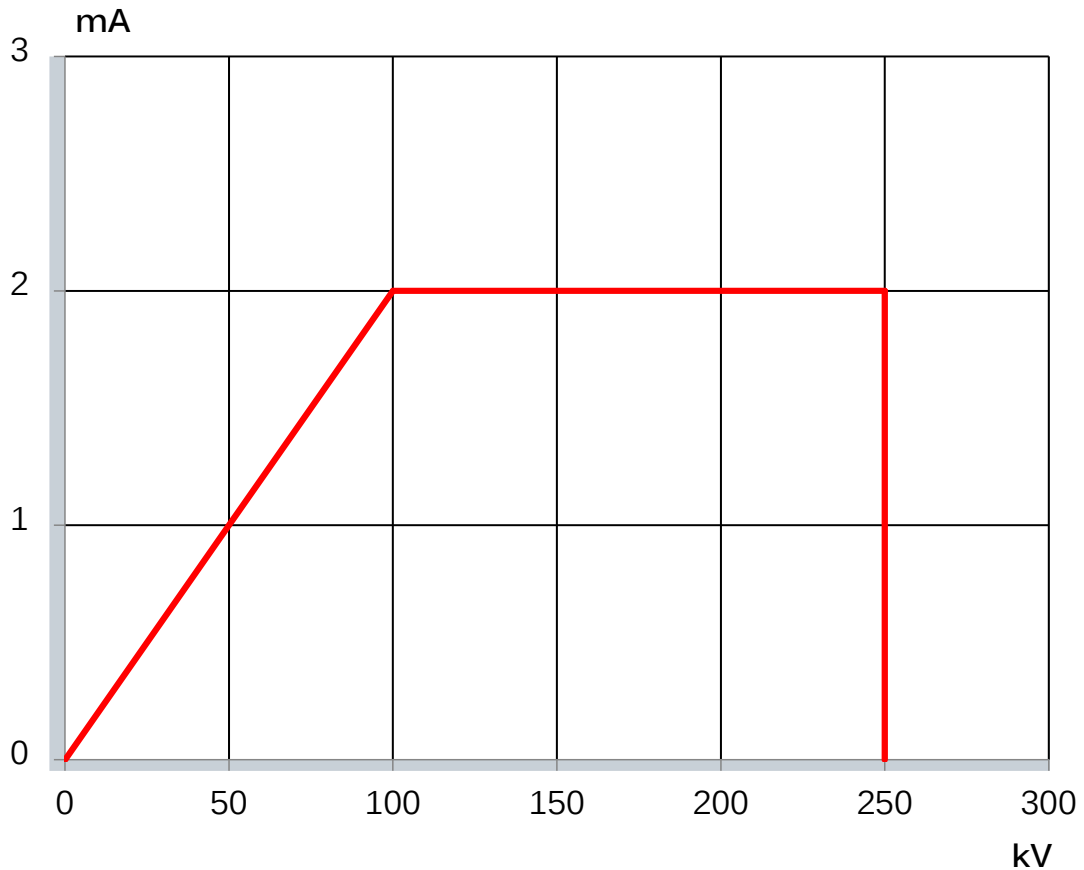
The IGX-250/11/FB is a bipolar oil-isolated X-Ray tube insert without integrated radiation protection. It comprises a single focal spot, a tungsten anode and a directional beam. The tube is specifically designed for an integrated X-Ray system for security applications.

Product Specifications

Nominal tube voltage.....	250 kV
Continuous rating.....	500 W
Focal spot acc. EN 12543.....	d = 1.0 mm
Filament current, max.	3.5 A
Filament voltage, typical.....	3.8 V
Inherent filtration.....	0.2 mm Cu + 0.4 mm Fe
Target material.....	W
Target angle.....	11°
Radiation coverage.....	80° x 8°
Weight.....	5.8 kg

Power rating charts

Power rating at given filament current



Cooling

Cooling isolation medium

Transformer Oil breakdown voltage 75kV (IEC 60156)

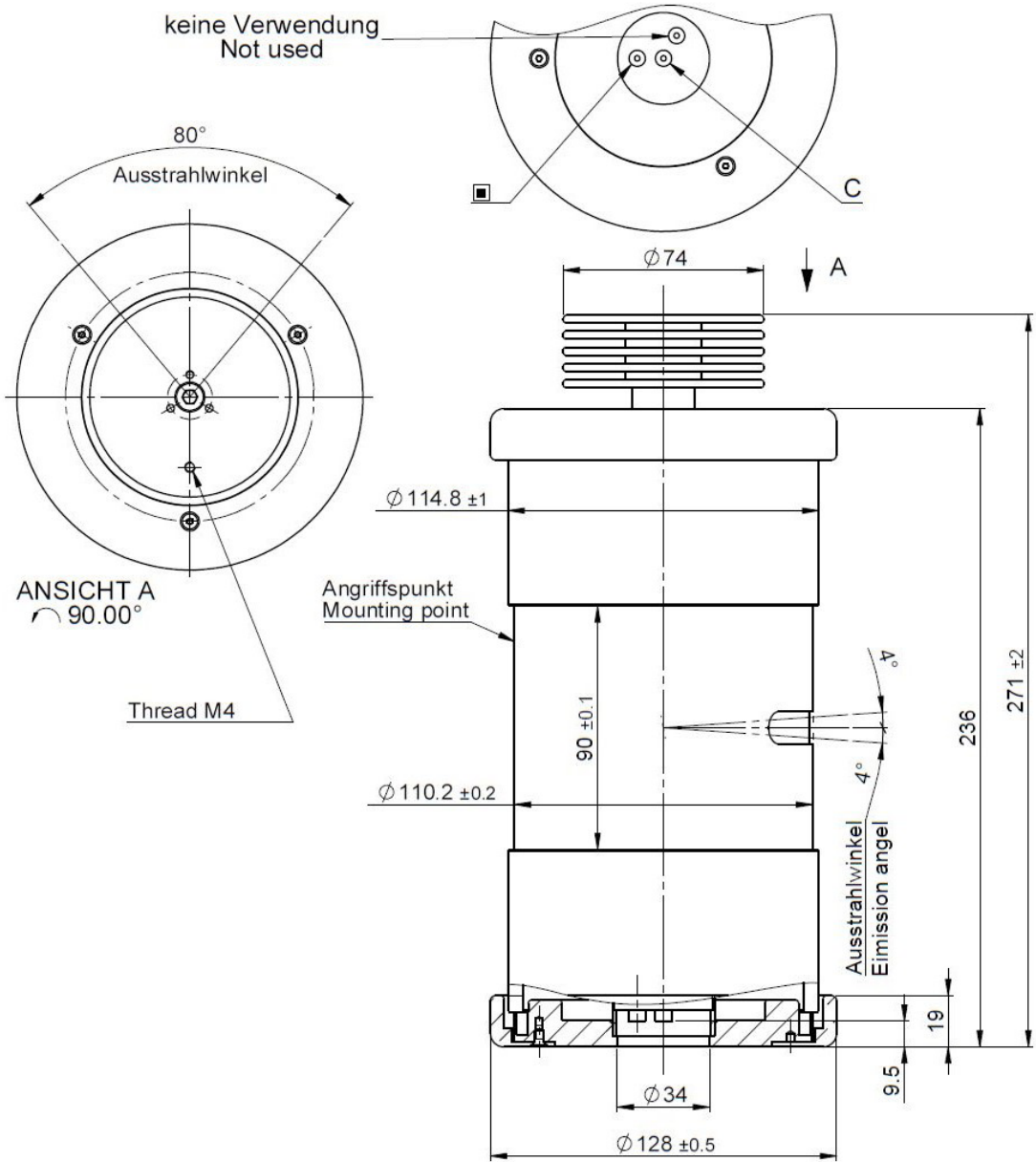
Isolation Oil temperature, max.

60°C

Anode surface temperature, max

90°C

Outline drawing



General information

General

This X-ray tube contains no protective shielding. X-ray protection must be part of the design of the equipment. The control of the high voltage and the filament current as well as the design of the cooling system and the radiation protection are within the responsibility of the original equipment manufacturer (OEM). For detailed instructions refer to our „X-Ray Tube Manual“. Provisions in the generator must assure that the X-Ray tube will be protected against overcurrent, overvoltage and lack of cooling. Otherwise the tube and/or the radiation protection may be damaged and become a hazard.

Conditioning

Attention! This tube has been conditioned at COMET up to the nominal voltage. The user has the responsibility that the final conditioning in the X-Ray System will be performed by trained personnel only and according to an approved scheme. The voltage during conditioning is limited to the nominal voltage.

Return of Goods to COMET

Prior to shipment to COMET a Field Failure Report (FFR) will be required. The completed FFR has to be added to the shipping documents. The FFR can be downloaded from: www.comet-xray.com/Service

Cooling

The cooling-isolation system is not supplied by COMET. Prior to operating the tube the cooling must be operational. The customer has to make sure that the coolant flow meets the required cooling conditions. When the tube is switched off, the coolant flow must continue for at least 2 minutes in order to protect the anode from overheating.

Radiation protection

When installing an X-ray tube into an X-ray equipment and/or operating an X-ray equipment, the responsibility for radiation protection and the use of collimators and filters is with the user. Compliance with local regulatory requirements must be assured.