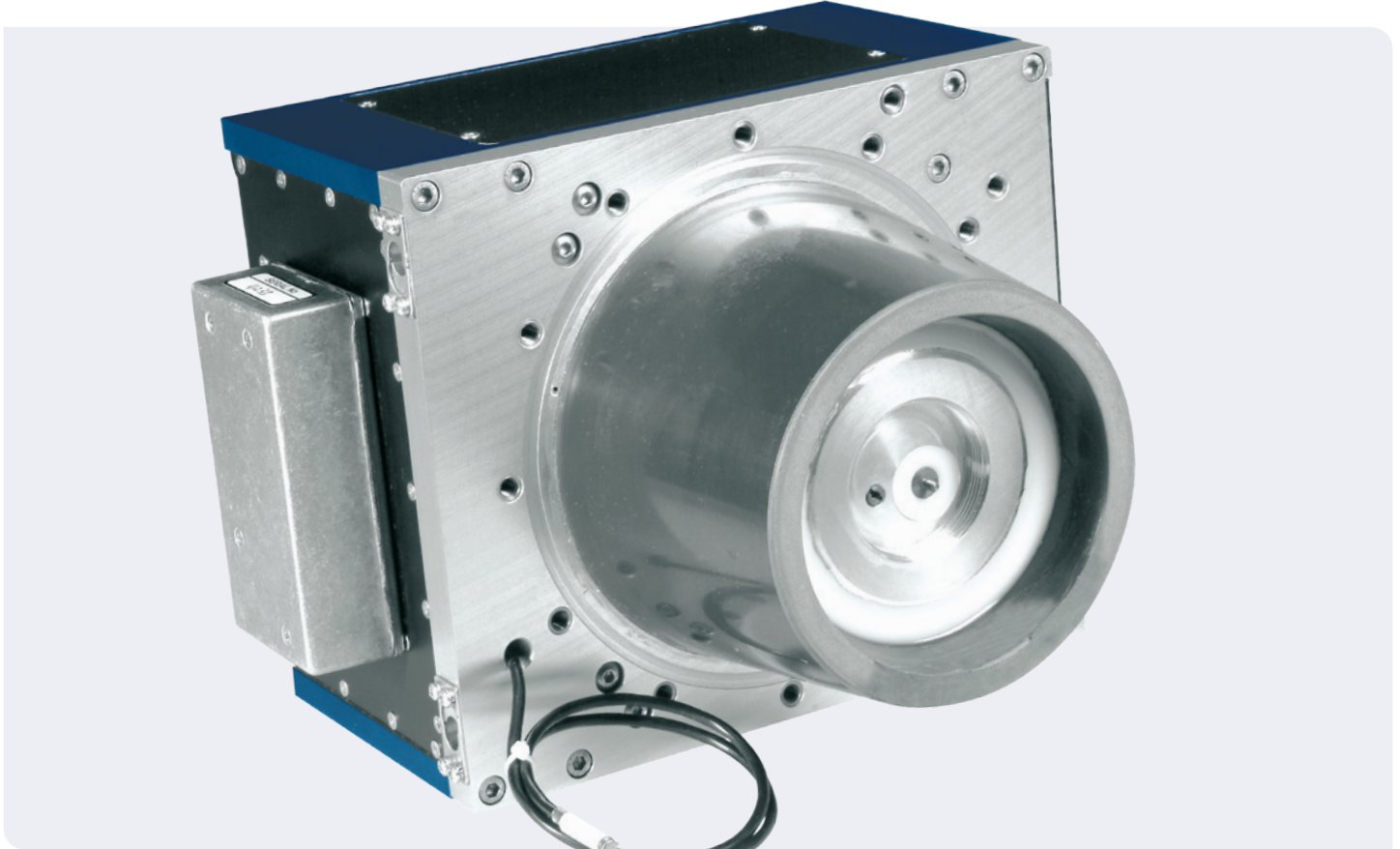




XR250 Range - Specification Sheet



Basic Description

The Genvolt Model is illustrated here as an example of Genvolt's capability to produce innovative designs in response to challenging specifications. Genvolt has a stock of design techniques and approaches for solving unusual problems presented by customers.

The Model above is designed for 24-48VDC operation in the harsh environment of steel strip rolling mills where it is positioned between the rollers. Because this is a very hot environment, water-cooling is mandated. This flows through a labyrinth of holes around the electronics and the HV areas.

The source is connected directly to an X-ray tube and it is the intensity of the X-rays passing through the steel which is used as the feedback parameter for controlling the pressure on the rollers and thus the thickness of the metal. This calls for a highly stable HV source, both in terms of the voltage applied to the cathode of the tube and also the anode current. The latter is regulated in a closed-loop manner by the HV supply to a high degree of stability and repeatability.

Basic Specification

Input voltage	24-48VDC
Output voltage	125kV negative polarity.
Output current	0-2.5mA (derated from 100kV at 250W maximum).
Filament supply	6V/5ARMS @ 25kHz under closed-loop control.
Control interface	0-10V for zero to maximum of controlled parameter. Logic-compatible command inputs and outputs. Fault monitoring and diagnostic outputs.