

# Microfocus X-ray Source System A-MiXS & XCU

**CUSTOM**  
X-RAY SYSTEMS



*Custom X-ray Systems is a  
brand of Auxilia Technology.  
Visit [x-ray.systems](http://x-ray.systems) and  
[auxilia.technology](http://auxilia.technology) for more  
information.*

# Overview

Our microfocus X-ray source system consists of A-MiXS /ə-miks/ (Auxilia Microfocus X-ray Source) and XCU (X-ray Control Unit) devices. A-MiXS is probably the smallest, uniform and most user friendly microfocus X-ray source available on the market.

It can be equipped with sealed X-ray tubes with a large variety of anode materials with different anode spot sizes. Universal housing allows short anode spot to X-ray optics distances thus any optic with different geometries can be mounted in front of it.

The system can be also easily implemented as an upgrade of an existing one. Main applications are XRD, SAXS, WAXS,  $\mu$ -XRF, etc.



# Characteristics

## A-MiXS X-ray Source

X-ray focus size	20 – 70 $\mu\text{m}$ *
Power	8 – 70 W depending on the used anode material
Max voltage	65 kV
Anode materials	Cu, Mo, Ag, Cr, Al *
Cooling medium	Water, air
Shutter	Tungsten rotary type
X-ray optics	Fully customizable

## X-ray Control Unit

Case	Rack mount 19", 3U height
Voltage input	100 – 240 V, 50/60 Hz
Max power output	75 W
Max voltage	65 kV
I/O	Door interlock, internal and external interlock I/O, external emergency stop, HV on and sh open warning light, external trigger input
Communication	Ethernet
Software	Linux, Windows GUI
External trigger	Current loop, TTL

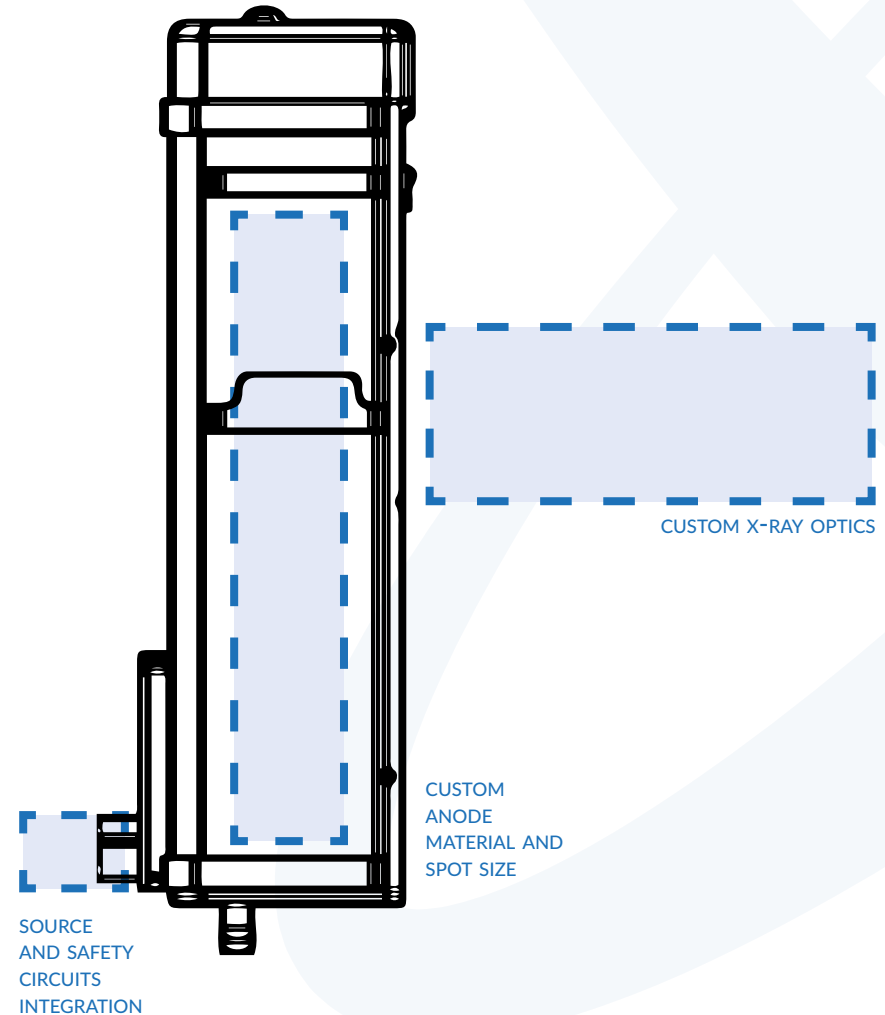
\* or other on request



# Flexibility

Our product is flexible by design.  
While ordering the system, you may:

- 1.**  
Choose anode material and spot size
- 2.**  
Choose x-ray optics
- 3.**  
Let us integrate the source and safety circuits  
with existing system

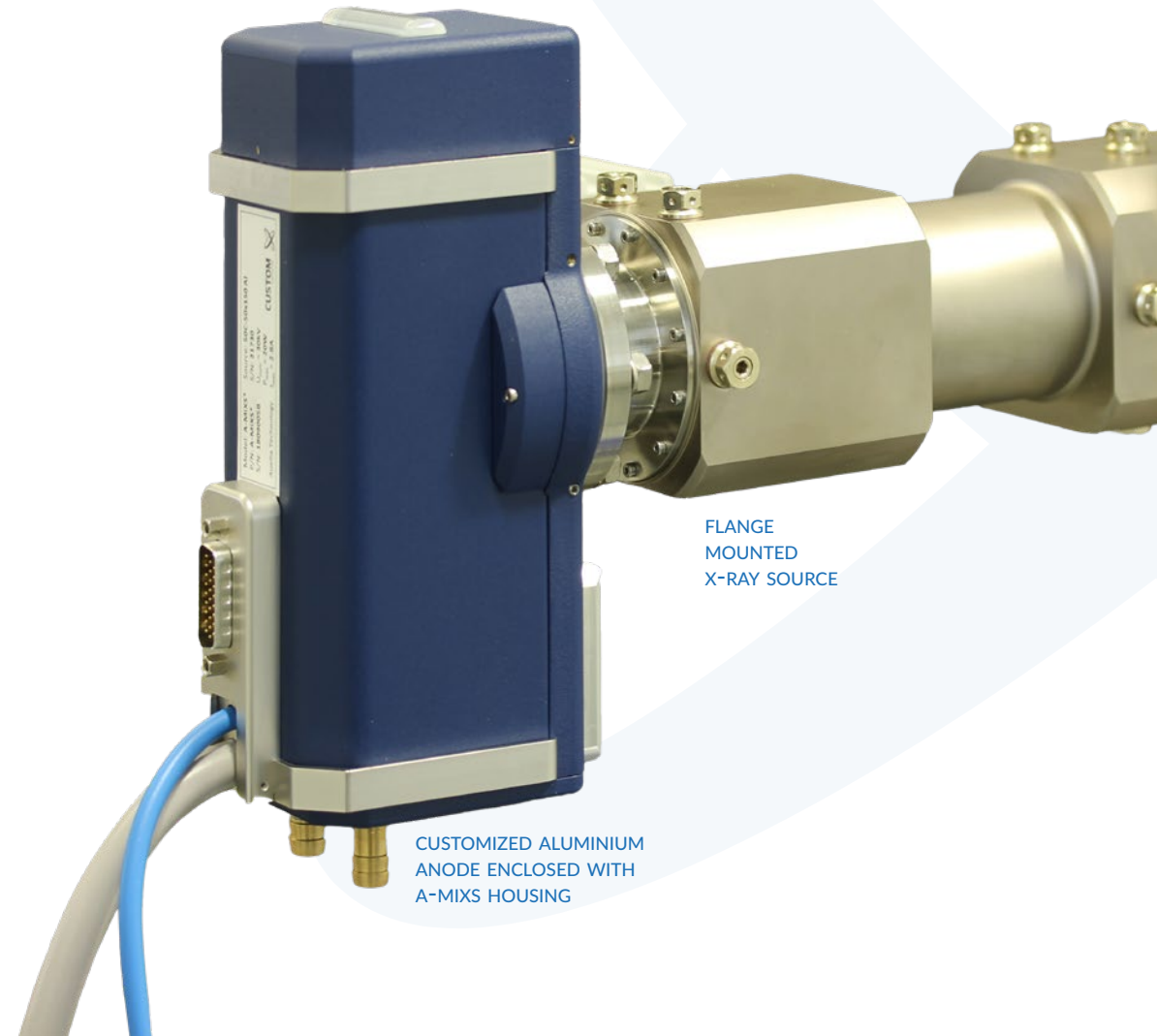


# Customization

Our product allows for extensive personalisation.

See picture on the right for an example implementation in working environment.

This is an aluminum, flange mounted X-ray source working in vacuum.



FLANGE  
MOUNTED  
X-RAY SOURCE

CUSTOMIZED ALUMINIUM  
ANODE ENCLOSED WITH  
A-MIXS HOUSING

# Contact us

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