

Revealing insights.

Ultra Performance Series

Higher speed with
Ultra Performance



c•met
x-ray

UP Series

Speed equals value

Integrated X-ray scanners are a vital part of today's efficiency driven production flows. Delivering consistent quality control on high-speed production lines is crucial to product integrity. The challenge is always how fast can this be achieved without compromising quality.

Accelerate throughput

In a world where speed is a crucial part of the production equation, the new Ultra Performance tube pushes the limits of what is possible. Thanks to its increased power load it allows for shorter exposure times to deliver higher throughput and high uptime while still maintaining excellent image quality.

Fast implementation

Because it is based on the familiar HP11, with the same design and footprint, the UP can be implemented into a production line without an efficiency slow-down – same day, same shift with no downtime. Standards are written around the HP11, so there's no need to apply for lengthy approvals.



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Creating the UP, we wanted to increase production-line efficiency by increasing the power load and dose stability - and nothing on the market delivers the power and speed as the UP module.

Marcel Odermatt, Ultra Performance Product Manager



Get Ultra Performance in three key areas

The perfect fit for your high-speed application. When the focal spot and target angle is already ideal for your application, but you simply need more power to drive higher speed productivity, the UP is the right tool for the job. Take out the old bulb, put in a new one and you're good to go.

1

Speed throughput by getting details faster

Get shorter exposure and increased speed thanks to an increased power load and new anode target topology. Excellent image quality with a sealed metal ceramic X-ray tube and ultra- fast implementation into your production line. The UP is also ideal for raising the speed limit of your existing solution with its increased nominal power load compared to an identical non-UP product.

2

Ultra-easy to use

Low maintenance costs mean lower total cost of ownership. Faster throughput with easy operation also reduces the need for manpower. New anode target topology allows one setting for all operation modes with reduced power for cycling operation with longer exposure times. Get continuous operation without stopping for routine maintenance. The robust and stable sealed X-ray tube design enables hassle-free integration and simple operation with easy-to-use WebUI interface.

3

Reliability and quality

Robust ergonomic sealed design with a maintenance free tube allows operation in oily, dirty environments without loss of performance. Dose stability reduces decay over time for a longer lifetime. Depending on usage parameters, failure can be determined before operation for predictive maintenance that fits your workflow.



225 kV

Tube type	Product no.	Continuous rating	Focal spot EN 12543	Radiation coverage	Target angle	Target material
MXR-225UP/11/04	915436.51	900 W	d = 0.4 mm	40° x 30°	11°	W

X-ray module configurations

Generators	Coolers	Cables
iVario-225/2.25	XRC-3023-WA	P3/250-R24SL-R28SL 5 meter
	XRC-3023-WW	P3/250-R24SL-R28SL 10 meter
		P3/250-R24SL-R28SL 15 meter

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Unmatched X-ray power, resulting in outstanding production speed, enabling faster X-ray image acquisition, and addressing the ever-increasing throughput demand - that's what we aimed for with the UP.

Michael Hubler, X-ray tubes Product Manager





Typical applications

A single defect in the aircraft structure, metal, or composite material can result in catastrophic failure - that's why quality control in the aerospace industry is paramount.

Comet X-ray modules enable reliable and fast detection of those failures.

- Quality control of parts for aircraft and space vehicles
- Identification of structural defects
- Turbine blade inspection
- Maintenance of aircrafts

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