

XPLORER 90

SEALED MICRO FOCUS X-RAY MODULE



FOCUS ON DETAILS

At COMET we focus our talent and resources on creating brighter ways of exposing hidden worlds for our customers. The XPLORER range of sealed microfocus X-ray sources is the latest expression of our close accuracy, quality and reliability for high resolution imaging applications requiring sharpest images. The XPLORER 90 is designed for inline or conveyor belt use.

DESIGNED TO LAST

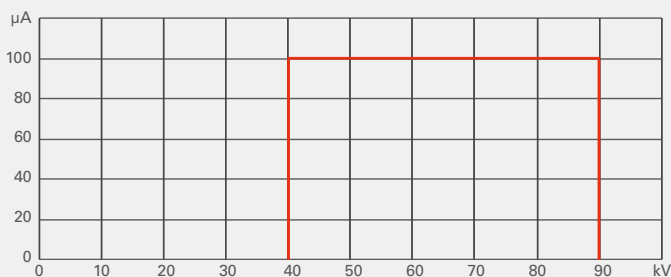
COMET is the global leader in the design and production of high-quality industrial metal-ceramic X-ray tubes. Stringent design and comprehensive tests ensure the best possible quality and the highest standards in the X-ray industry. The result is a uniform, reproducible output with minimal variation in focal spot or beam - and an additional life-time with a prolonged mean time between failure, benefiting your mission-critical application.

YOUR APPLICATION IN MIND

The XPLORER 90 has been designed for applications requiring small spot size, high magnification and stable output under continuous operation. Ideal for the inspection of batteries, Micro CT scanning of small objects and for checking the internal integrity of components. The XPLORER 90's 12 mm spot-to-window spacing allows for high geometric magnification and high resolution.

XPLORER 90

POWER RATING



HIGH PERFORMANCE

Thanks to COMET's digital power regulation and advanced tube design, XPLORER products have exceptional dose stability and accuracy; Our advanced electron optics technology leads to a uniform, reproducible focal spot that goes down to 8 µm. All X-ray sources have an integrated, active cooling that leads to a higher dose stability and longer operating life-time.

CUSTOMIZATION

If your application requires a solution that varies from what you see in this data sheet, our product development team is ready to work with you to build a tailor-made solution to improve the performance of your specific system.

CERTIFICATES

LVD: 2014/35/EU (IEC/ EN /UL 61010-1), EMCD: 2014/30/EU and CE.

PRELIMINARY SPECIFICATIONS

FOCAL SPOT	8 MICRONS
BEAM ANGLE	48°
TARGET MATERIAL	TUNGSTEN
WINDOW MATERIAL	800 µm BERYLLIUM
FOCUS TO SAMPLE DISTANCE	12 mm
MAXIMUM X-RAY POWER	10 W @ 8 MICRON
TUBE CURRENT	0 - 100 µA
TUBE VOLTAGE	40 - 90 kV
POWER SUPPLY UNIT	24 VDC, 3A
DUTY CYCLE	CONTINUOUS
TEMPERATURE RANGE	5 - 35° C
HUMIDITY	90 % NON-CONDENSING
DIMENSIONS L x W x H	28,5 x 8,15 x 9,57 cm
WEIGHT	3 kg
J1	RS232, DB9S
J2	INTERLOCK - MOLEX # 39-30-1040
J3	24 VDC, MOLEX #39-30-1020
J4/J5	FOR MANUFACTURER USE ONLY
CONTROL	RS232