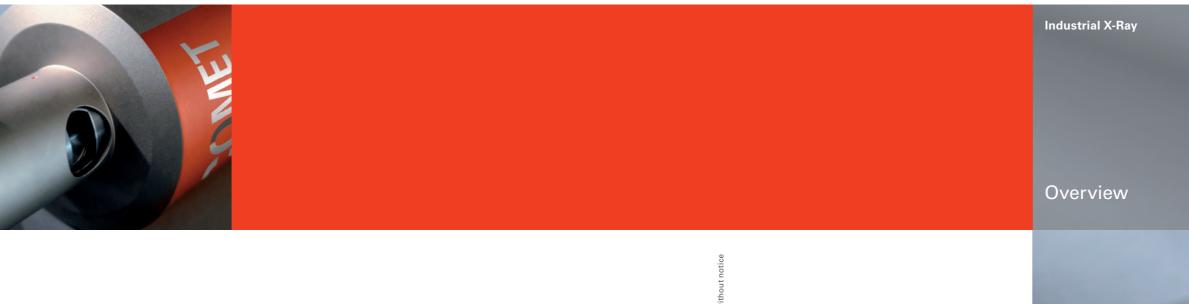
Unipolar Ceramic Tubes





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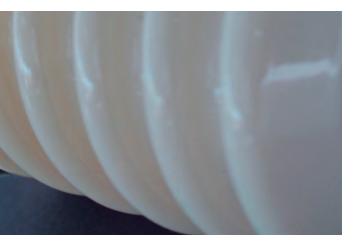




COMET is pleased to offer all of the necessary components for a customized X-Ray Source: The new XRS modules each contain a COMET X-Ray tube, high voltage generator with cables and coolers designed for easy integration that will optimize system performance.

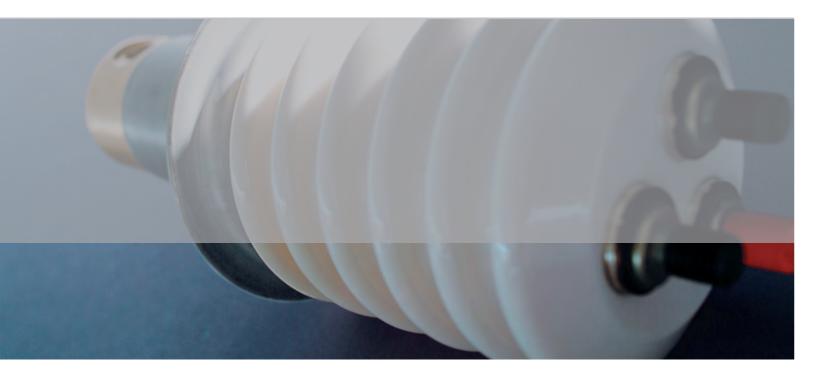
All XRS modules are factory prepared and tested for hassle free installation and operation.

This novel solution demonstrates COMET's continuous commitment and investment in delivering real added value to our worldwide customer base.



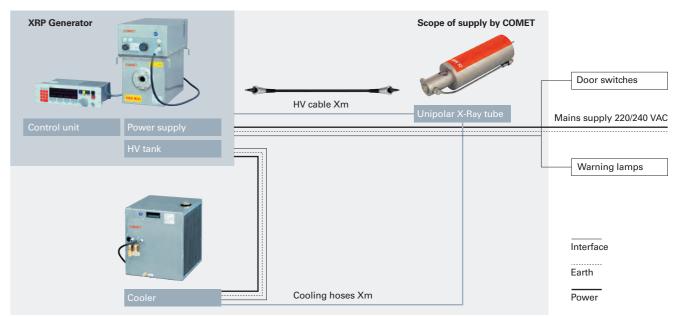
About the Business Unit Industrial X-Ray

COMET Industrial X-Ray is an experienced supplier of components and modules for industrial X-Ray applications and is proud of its reputation as the preferred engineering partner in terms of innovation potential, know how, flexibility and speed. Our product range features X-Ray tubes and sources with small focal spot resolution up to 6 kW in output for more power demanding requirements. From the smallest footprint for use in portable units to 600 kV fixed gantry systems that are suitable for cargo screening, we offer a solution.



Unipolar X-Ray Source

Diagram of a Unipolar X-Ray Source XRS and its environment.



Unipolar Ceramic Tubes – Configuration Information (examples)

Overview of all tubes and fitting module components; high voltage generator, high voltage cable and cooler.

TUBE						GENERATOR	HIGH VOLTAGE CABLE	COOLER	
		Nominal tube	Continuous	Focal spot acc.	Terminal				
Туре	Ordering No.	voltage	rating	EN 12543	type	Туре	Type/Xm	Туре	Ordering No.
CXR-102	915102.51	100 kV	600 W	d = 2.0 mm	R10	XRP-100/2250/2	U3/100-R10SL-R10SL-Xm	XRC-3001-WA	10008640
CXR-105	915110.51	100 kV	1000 W	d = 3.0 mm	R10	XRP-100/2250/2	U3/100-R10SL-R10SL-Xm	XRC-3001-WA	10008640
CXR-150	915200.51	150 kV	1000 W	d = 2.0 mm	R24	XRP-160/2250/2	N3/160-R24SL-R24SL-Xm	XRC-3001-WA	10008640



	CXR-102	CIR-102	CXR-105	CIR-105	CXR-150
Ordering No.	915102.51	915102.01	915110.51	915110.01	915200.51
Nominal tube voltage	100 kV	100 kV	100 kV	100 kV	150 kV
Continuous rating	600 W	600 W	1000 W	1000 W	1000 W
Focal spot acc. EN 12543	d = 2.0 mm	d = 2.0 mm	d = 3.0 mm	d = 3.0 mm	d = 2.0 mm
Former focal spot design.	0.6	0.6	1.5	1.5	0.6
Filament current, max.	3.2 A				
Filament voltage, typical	3.0 V	3.0 V	4.6 V	4.6 V	3.3 V
Inherent filtration	0.8 mm Be				
Target material	W	W	W	W	W
Target angle	20°	20°	20°	20°	15°
Radiation coverage	40°	40°	40°	40°	65° x 35°
Leakage radiation, max.	2.5 mSv/h	-	2.5 mSv/h	_	2.5 mSv/h
Cooling medium	Water	Water	Water	Water	Water
Cooling medium flow, min.	4 l/min				
Temperature at inlet, max.	35° C				
Weight	3.5 kg	0.9 kg	3.5 kg	0.9 kg	6 kg
Terminal type	R10	-	R10	_	R24
Mounting flange	20052839	-	20052839	-	4512-104-87141

Outline drawing M10x M10x **g**]≢ Ø 45 59.4 59.5 289.5 Tube diagram mA mA mΑ mA mΑ 600 W Foc 600 W Fo 1 kW Focus 60 80 100 120 kV 60 80 100 120 0 20 40 60 80 100 120 kV 0 20 40 60 80 100 120 0 20 40 0 20 40 60 80 100 120 140 160 kV kV kV



CIR-150

915200.04
150 kV
1000 W
d = 2.0 mm
0.6
3.2 A
3.3 V
0.8 mm Be
W
15°
65° x 35°
_
Water
4 l/min
35° C
1.5 kg
-
-

