# Portable Metal Ceramic Tubes





COMET AG Industrial X-Ray Herrengasse 10, CH-3175 Flamatt T +41 31 744 90 00, F +41 31 744 90 90 www.comet-xray.com info@comet-xray.com COMETTechnologies USA, Inc.
76 Progress Drive
Stamford, CT 06902, USA
T+1 203 969 2161, F+1 203 969 2162
www.comet-xray.com
info@cometusa.com

COMET China
1201 Guiqiao Road, Building 10, 1st floor
Pudong, Shanghai 201206/ P.R. China
T +86 21 6879 9000, F +86 21 6879 9009
www.comet-xray.com
info@cometchina.com





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#### **About Portable Metal Ceramic Tubes**

COMET's Portable Metal Ceramic tubes are designed for use in highly demanding field-tests applications such as pipe inspection, welding inspection, and aerospace testing. Because of their high reliability and stability, our tubes are also used in other X-Ray applications like Thickness Gauging and Non Destructive Testing.

The tube consists of a ceramic isolator and a metal envelope with air cooled anode especially designed to be continuously operated at max voltage and power.

Because of the metal ceramic design the tube's main advantages are:

- Low weight
- Very rugged mechanical design
- Small dimensions
- No oil insulation necessary
- No choke effect due to space charges
- Integrated heat sink (on request)

For special applications or for special demands for focal spot size, power and/or packaging, COMET is prepared to provide customized solutions.

# "One Stop Shop" for Industrial X-Ray Sources: COMET's XRS Modules

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.

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MIR-225E	
915329.01	

225 kV 900 W d = 3.0 mm 3.8 A 5.0 V 0.8 mm Be

W 20° 60° x 40° Air 100° C

2.6 kg

Ordering No.
Nominal tube voltage
Continuous rating
Focal spot acc. EN 12543
Filament current, max.
Filament voltage, typical
Inherent filtration
Target material
Target angle
Radiation coverage
Cooling medium
Anode temperature, max.
Weight

MI	R-	30	0

Will SOUL
915329.21
300 kV
900 W
d = 3.0  mm
3.8 A
5.0 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
2.6 kg

MIR-160E

WIII 100E	Will Edde
915328.11	915328.01
160 kV	200 kV
900 W	900 W
d = 3.0 mm	d = 3.0 mm
3.8 A	3.8 A
4.6 V	4.6 V
0.8 mm Be	0.8 mm Be
W	W
20°	20°
60° x 40°	60° x 40°
Air	Air
100° C	100° C
1.9 kg	1.9 kg

MIR-200E MIR-201E

915352.01
200 kV
600 W
d = 1.0 mm
4.1 A
3.0 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
1.9 kg

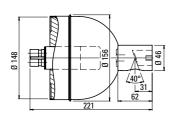
MIR-301E

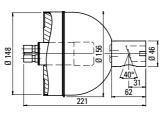
915338.01
300 kV
900 W
d = 3.0 mm
3.8 A
4.6 V
0.8 mm Be
W
20°
60° x 40°
Air
100° C
3.7 kg

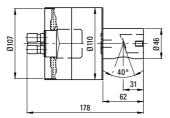
MIR-280E/HP

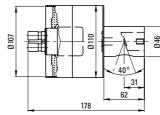
Will 2002/111
915374.01
280 kV
340 W
d = 0.5 mm
3.5 A
2.6 V
0.8 mm Be
W
15°
60° x 30°
Air
100° C
3.7 kg

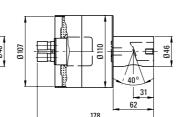
### Outline drawing

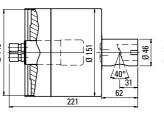


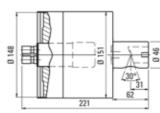




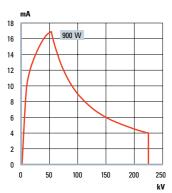


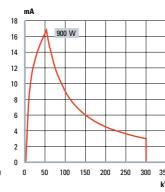


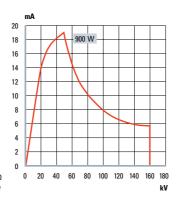


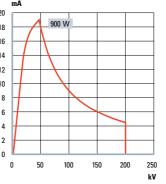


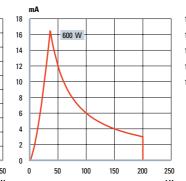
#### Tube diagram

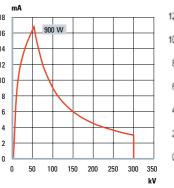


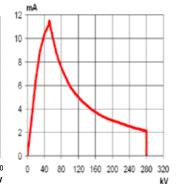












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Ordering No.
Nominal tube voltage
Continuous rating
Focal spot acc. EN 12543
Former focal spot design.
Filament current, max.
Filament voltage, typical
Inherent filtration
Target material
Target angle
Radiation coverage
Cooling medium
Anode temperature, max.
Weight

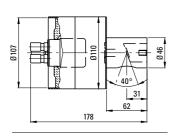
#### MIRP-200E

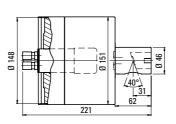
MIRP-200E
915333.01
200 kV
600 W
= 0.4  mm / w = 4.0  mm
0.4 x 4.0
1.2 A
2.3 V
0.4 mm Fe/Ni/Co
N
22°
360° x 40°
Air
120° C
3 0 ka

### MIRP-301E

WIIIIF-301L	
915354.01	
300 kV	
600 W	
I = 0.5  mm / w = 5.5  mm	
0.4 x 4.0	
4.2 A	
2.3 V	
0.4 mm Fe/Ni/Co	
W	
22°	
360° x 40°	
Air	
120° C	
3.2 kg	

## Outline drawing





### Tube diagram

