

PXS Series

Portable X-Ray Sources

Accessories

Additional options available on request



External warning lamps



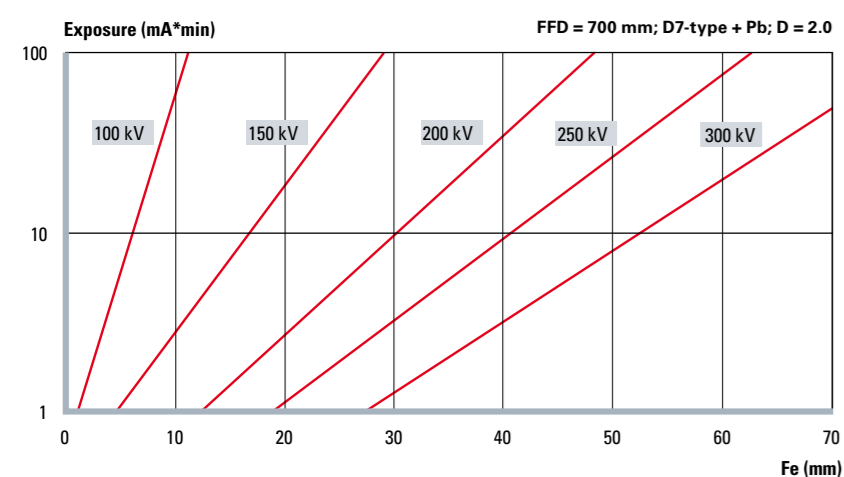
Lead cone



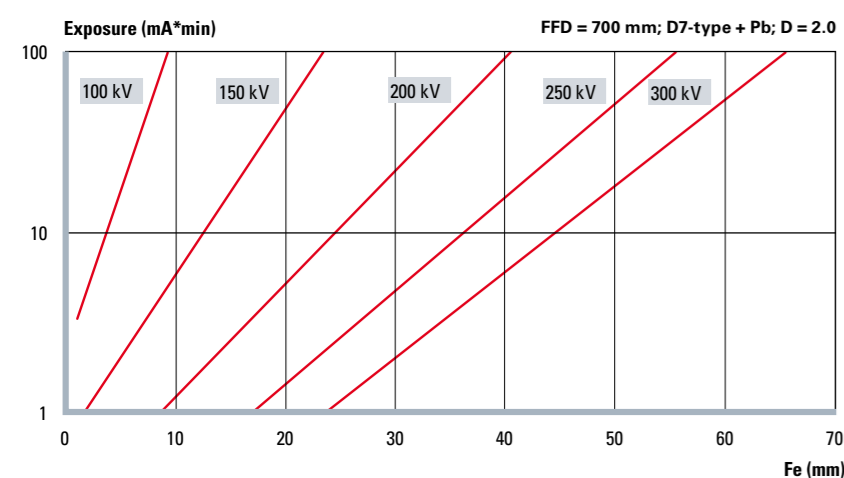
Tripod tube stand



Fe exposure diagram directional



Fe exposure diagram panoramic



8/2011 - V1, specification subject to change without notice

COMET
Technology with Passion

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Industrial X-Ray

Overview



- Cost-efficient operation
- Stable and reliable operation
- Low weight and very easy handling
- Designed to access areas with limited space
- Designed to operate in most rugged environments



PXS Series

Portable X-Ray Sources from COMET are designed and manufactured to offer the most reliable and efficient services under the toughest working conditions anywhere on the globe. These sources are based on more than 50 years of experience and excellence in the field. Today they offer user-friendly and intuitive operating menus that enable maximum productivity in the field. COMET portable sources provide for extremely stable X-Ray output and are insensitive to irregularities in the line voltage. Their power consumption is extremely low, so your operations leave a green footprint behind, worldwide. By the same token, operational time can be reduced as well, leading you to significant savings in both costs and operations. The Portable X-Ray Sources and control units are designed to excel in rugged environments, whether at high or low temperatures. No matter how tough the conditions, COMET Portable X-Ray Sources are designed to withstand dust and water. They are also extremely well suited for crawler applications.

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 modules with small focal spot resolution ($< 1 \mu\text{m}$) up to 6 kW in output for more power-demanding requirements. From the smallest footprint for use in portable units to 800 kV fixed gantry systems that are suitable for cargo screening we offer a solution.



Main segments:

- NDT companies for welding inspection, e.g. pipe inspection
- Marine services, offshore companies and shipbuilding
- Aircraft inspection, civil aviation and military
- Power stations, atomic and hydroelectric
- Construction companies, such as bridge and boiler construction
- Coating industry

Advantages:

- Easy to handle and operate
- Designed for rough field inspection
- External warning lamps available
- Low power consumption
- Cost-efficient operation
- Stable and reliable operation
- Compact, low weight
- Metal-ceramic tube insert
- Low service/maintenance costs
- High duty cycle
- Penetrates thick material
- High penetration capabilities
- Short exposure time
- Designed to access areas with limited space
- One-man operation



	PXS-160/640	PXS-160/960	PXS-160/640/W	PXS-200/900	PXS-200/600/P	PXS-225/900	PXS-300/900	PXS-300/600/P
Ordering No.	20041041	20041042	20041043	20041044	20041046	20041049	20041050	20041052
High voltage								
Adjustment range	10–160 kV	10–160 kV	10–160 kV	60–200 kV	50–200 kV	70–225 kV	50–300 kV	50–300 kV
Adjustment increments	± 1 kV/step	± 1 kV/step	± 1 kV/step	± 1 kV/step	± 1 kV/step	± 1 kV/step	± 1 kV/step	± 1 kV/step
Tube current								
Adjustment range	2.0–6.0 mA	2.0–6.0 mA	2.0–6.0 mA	0.5–4.5 mA	0.5–4.5 mA	0.5–4.0 mA	0.5–3.0 mA	0.5–3.0 mA
Adjustment increments	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step	± 0.1 mA/step
Max. power	640 W	960 W	640 W	900 W	600 W	900 W	900 W	600 W
Focal spot acc. EN12543	1 mm	3 mm	1 mm	3 mm	0.4 x 4.0 mm	3 mm	3 mm	0.5 x 5.5 mm
Beam angle	40° x 55°	40° x 55°	40° x 40°	40° x 55°	40° x 360°	40° x 55°	40° x 55°	40° x 360°
Inherent filtration	0.8 mm Be ± 0.1 mm	0.8 mm Be ± 0.1 mm	0.8 mm Be ± 0.1 mm	0.8 mm Be ± 0.1 mm	0.4 mm Fe/Ni/Co	0.8 mm Be ± 0.1 mm	0.8 mm Be ± 0.1 mm	0.4 mm Fe/Ni/Co
Additional filters	3 mm Al	3 mm Al	3 mm Al	3 mm Al	3 mm Al	4 mm Al	4 mm Al	4 mm Al
Duty cycle at max. power	70% at 20°C	50% at 20°C	100% at 20°C	100% at 20°C	100% at 20°C	100% at 20°C	100% at 20°C	100% at 20°C
Anode cooling	air	air	water, 2.5 l/min	air	air	air	air	air
Mechanical data								
Tube head:								
– Dimensions (l x d) incl. hand rings	284 mm x 616 mm	284 mm x 616 mm	295 mm x 556 mm	295 mm x 670 mm	295 mm x 672 mm	295 mm x 709 mm	295 mm x 775 mm	295 mm x 812 mm
– Weight, incl. hand rings	22 kg	22 kg	18 kg	28 kg	27 kg	29 kg	33 kg	47 kg
Control unit:								
– Dimensions (w x h x d)	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm	464 mm x 322 mm x 164 mm
– Weight	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg

Outline drawing