

Technical Product Data Sheet

MICROFOCUS X-RAY TUBES

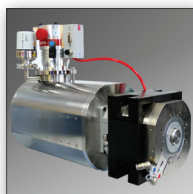
PRODUCT LINE *THE PLUS*



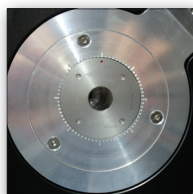
Product image



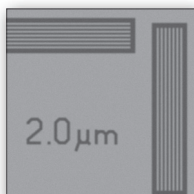
Microfocus X-ray tube XWT-300-THE Plus



XWT-225-THE Plus with
cooling of tube head



Circular scale



JIMA resolution 2.0 μm

Images show options

Technical data

Data		Product line <i>THE Plus</i>				
Max. voltage (kV)	160	190	225	240	300	320
Min. voltage (kV)	20	20	20	20	20	20
Max. current (mA)	1.0	1.0	1.0	1.0	1.0	1.0
Min. current (mA)	0.05	0.05	0.05	0.05	0.05	0.05
Max. power, target (Watt)	80	80	80 ¹	80 ¹	80 ¹	80 ¹
JIMA resolution (μm)	2.0	2.0	2.0	2.0	3.0	3.0
Tube type	Transmission					
Target type	High Energy				High Energy 300 Plus ²	
Target material (substrate/active layer)	Diamond / Tungsten					
Min. focus-object- distance (FOD, mm)	0.3	0.3	0.3	0.3	0.45	0.45
Opening angle (approx. °)	160	160	160	160	160	160
Mounting length incl. 90° HV plug (mm)	626	626	717	809	844	844
Tube weight (approx. kg)	31	31	52	52	71	71

¹ Standard delivery with 80 W, optional upgrade to 120 W.

² Optional *High-Energy 300* target for optimized resolution

Highlights

- ▶ Outstanding 120 Watt target power (optional)
- ▶ Ultimate combination of resolution, target power, and magnification
- ▶ Developed for inline and offline computed tomography, laminography, and planar computed tomography
- ▶ Automatic Intensity Control (AIC) for continuous intensity of radiation
- ▶ Automatic venting valve for long life of vacuum components

See our new catalogue **Options and Accessories** to find additional auxiliary equipment for your X-RAY WorX tube.

Scope of delivery

- ▶ Open microfocus X-ray tube with transmission target, turbo vacuum pump, vacuum gauge, and electronic drive unit
- ▶ Cooling of transmission target
- ▶ High voltage generator and high voltage cable
- ▶ Tube controller, power supplies, and safety relays on 19" mounting panels
- ▶ Prevacuum pump with vacuum hose
- ▶ Set of cables for electrical connection of X-ray tube and components
- ▶ Spare parts case, documentation, and operating software

Product Line THE Plus

Resolution

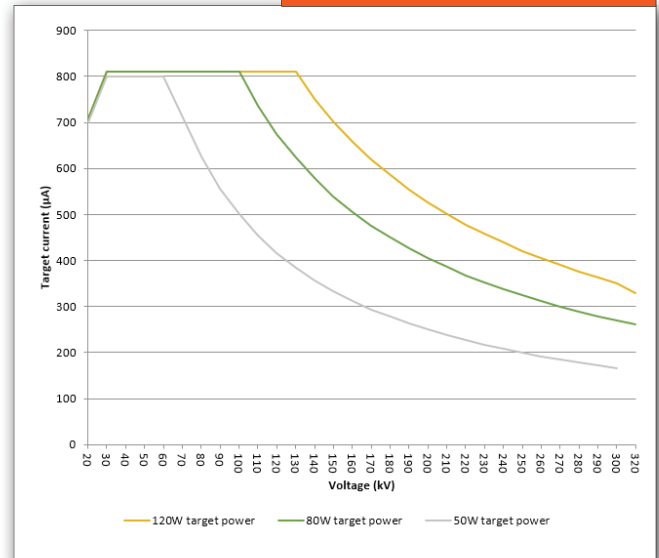
High Energy target		Voltage [kV]							
		60	100	150	190	225	240	300	320
Target power [W]	1.0	3	3	3	3	3	2	2	2
	2.0	3	3	3	3	3	2	2	2
	3.0	3	3	3	3	3	2	2	2
	5.0	3	3	3	3	3	2	2	2
	7.0	4	4	3	3	3	2	2	2
	10.0	4	4	3	3	3	2	2	2
	15.0	10	10	4	3	3	2	2	2
	20.0	15	15	6	3	3	2	2	2
	25.0	25	20	8	4	3	2	2	2
	50.0	-	35	30	15	10	9	9	9
	80.0	-	-	40	35	30	25	15	15
	100.0	-	-	50	45	40	35	25	25
	120.0	-	-	-	50	50	45	35	35

High Energy 300 Plus target		Voltage [kV]							
		60	100	150	190	225	240	300	320
Target power [W]	1.0	3	3	3	3	3	3	3	3
	2.0	3	3	3	3	3	3	3	3
	3.0	3	3	3	3	3	3	3	3
	5.0	4	4	3	3	3	3	3	3
	7.0	4	4	3	3	3	3	3	3
	10.0	4	4	4	3	3	3	3	3
	15.0	15	15	6	3	3	3	3	3
	20.0	20	20	8	3	3	3	3	3
	25.0	30	25	9	4	3	3	3	3
	50.0	-	40	35	20	10	9	9	9
	80.0	-	-	45	40	40	20	20	20
	100.0	-	-	> 50	50	50	40	30	30
	120.0	-	-	-	> 50	> 50	50	40	40

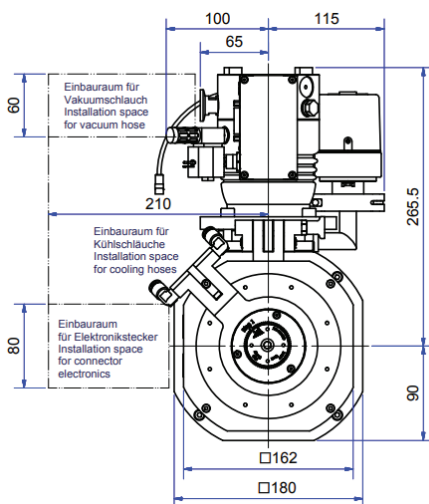
* Resolution in microns (μm) at the specified acceleration voltage and target power

** The resolution data were determined at maximum geometric magnification using an iRay NDT 0909M detector (pixel size: 205 μm).

Power rating chart



Tube dimensions



Dimensions of XWT-225-THE Plus / XWT-240-THE Plus

