

# MICROFOCUS X-RAY TUBES

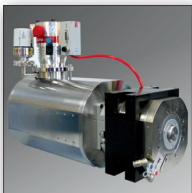
## PRODUCT LINE *THE PLUS*



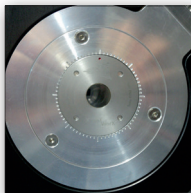
### Product image



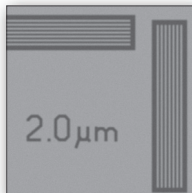
Microfocus X-ray tube XWT-300-THE Plus



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 <sup>1</sup>
Min. voltage (kV)	20	20	20	20	20
Max. current (mA)	1.0	1.0	1.0	1.0	1.0
Min. current (mA)	0.05	0.05	0.05	0.05	0.05
Max. power, target (Watt)	50 <sup>1</sup>	50 <sup>1</sup>	50 <sup>1</sup>	50 <sup>1</sup>	50 <sup>1</sup>
JIMA resolution (μm)	2.0	2.0	2.0	2.0	3.0
Tube type	Transmission				
Target type	High Energy				High Energy 300 Plus
Target material (substrate/active layer)	Diamond / Tungsten				
Min. focus-object-distance (FOD, mm)	0.3	0.3	0.3	0.3	0.45
Opening angle (approx. °)	160	160	160	160	160
Mounting length incl. 90° HV plug (mm)	626	626	717	809	844
Tube weight (approx. kg)	31	31	52	52	71

<sup>1</sup>Optional power boost to 80W available.

### Highlights

- ▶ Outstanding 50 Watt target power
- ▶ Optional power boost to 80 Watt target power
- ▶ 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

### JIMA resolution

High Energy target		Voltage [kV]					
		60	100	150	190	225	240
Target power [W]	1.0	3	3	2	2	2	2
	2.0	3	3	2	2	2	2
	3.0	3	3	2	2	2	2
	5.0	3	3	2	2	2	2
	7.0	3	3	2	2	2	2
	10.0	3	3	2	2	2	2
	15.0	4	3	2	2	2	2
	20.0	7	4	3	3	3	3
	25.0	10	5	5	5	5	5
	50.0	15 <sup>1</sup>	15	15	15	15	15
80.0 <sup>3</sup>	-	30 <sup>2</sup>	20	20	20	20	

JIMA resolution in microns ( $\mu\text{m}$ )

<sup>1</sup>40W, <sup>2</sup>70W, <sup>3</sup>optional power boost

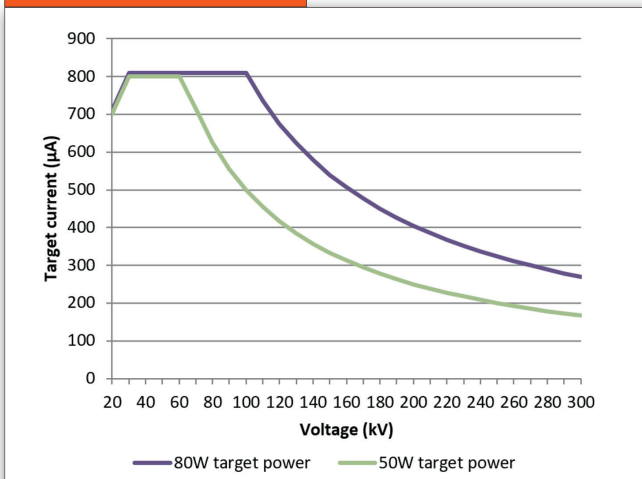
### JIMA resolution

High Energy 300 Plus target		Voltage [kV]						
		60	100	150	190	225	240	300
Target power [W]	1.0	3	3	3	3	3	3	3
	2.0	3	3	3	3	3	3	3
	3.0	3	3	3	3	3	3	3
	5.0	3	3	3	3	3	3	3
	7.0	3	3	3	3	3	3	3
	10.0	3	3	3	3	3	3	3
	15.0	6	5	4	4	4	4	4
	20.0	10	6	5	5	5	5	5
	25.0	15	7	5	5	5	5	5
	50.0	25 <sup>1</sup>	25	15	15	15	15	15
80.0 <sup>3</sup>	-	30 <sup>2</sup>	20	20	20	20	20	

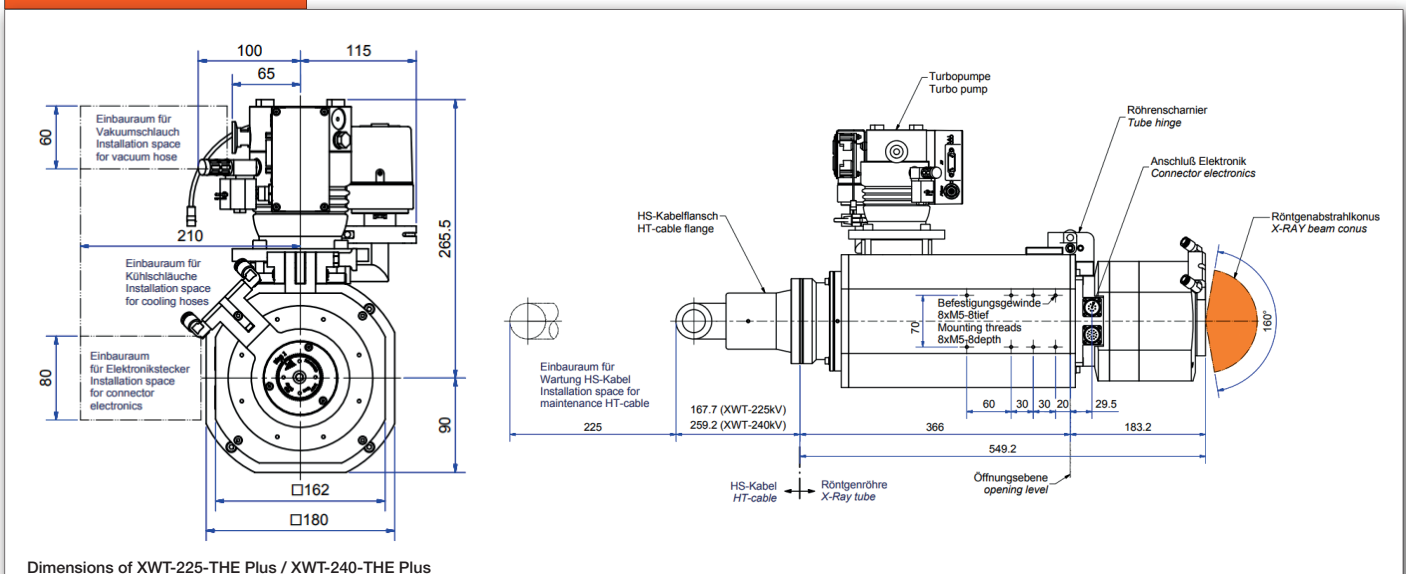
JIMA resolution in microns ( $\mu\text{m}$ )

<sup>1</sup>40W, <sup>2</sup>70W, <sup>3</sup>optional power boost

### Power rating chart



### Tube dimensions



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