

MICROFOCUS X-RAY TUBES

PRODUCT LINE *THE PLUS*



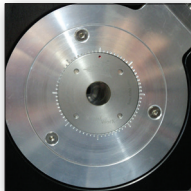
Product image



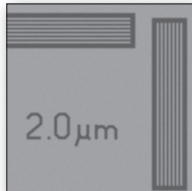
Microfocus X-ray tube XWT-300-THE Plus



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 ¹ |
| 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) | 80 | 80 | 80 | 80 | 80 |
| 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 |

Highlights

- ▶ Outstanding 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 ¹ | 15 | 15 | 15 | 15 | 15 |
| 80.0 | - | 30 ² | 20 | 20 | 20 | 20 | |

JIMA resolution in microns (μm)

¹40W, ²70W

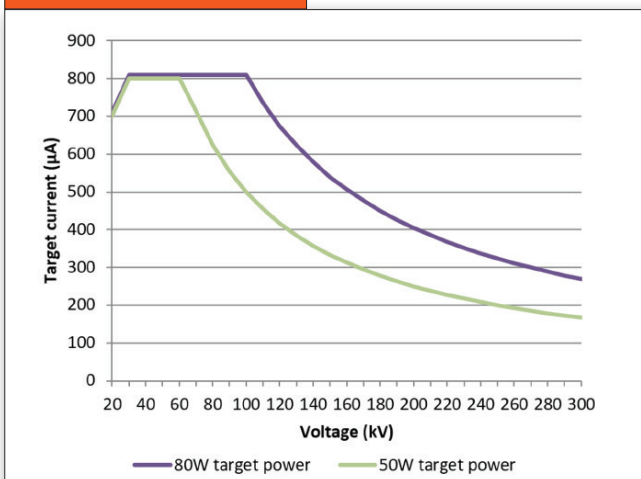
JIMA resolution

| 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 ¹ | 25 | 15 | 15 | 15 | 15 | 15 |
| 80.0 | - | 30 ² | 20 | 20 | 20 | 20 | 20 | |

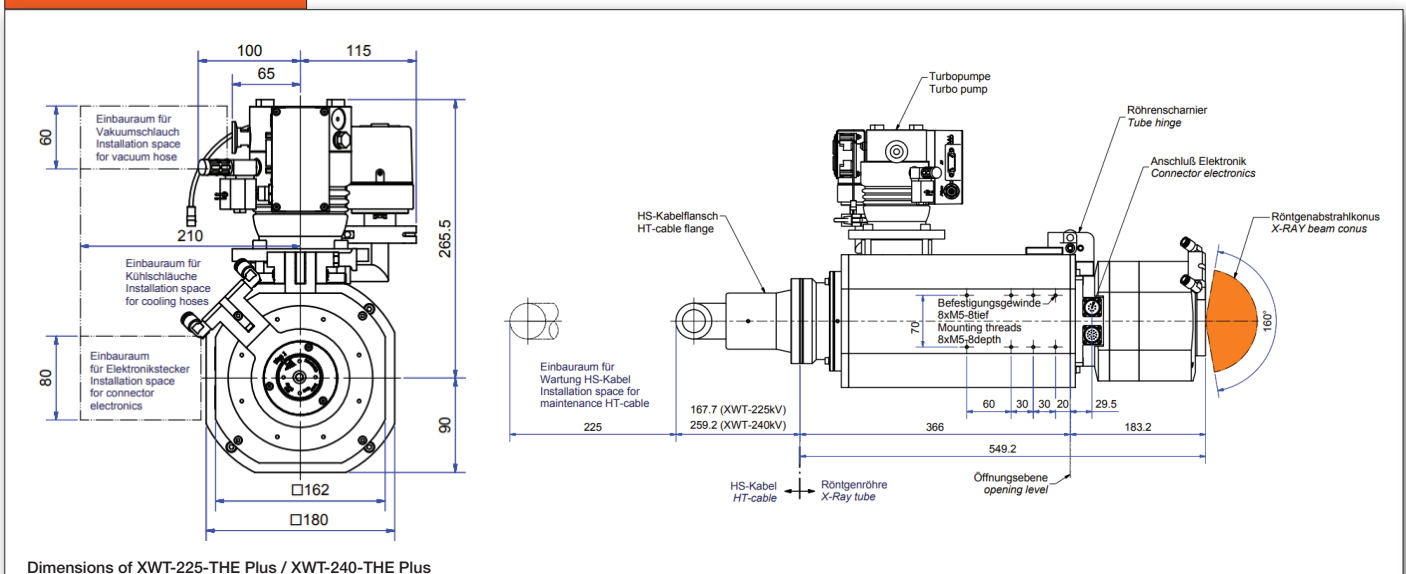
JIMA resolution in microns (μm)

¹40W, ²70W

Power rating chart



Tube dimensions



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