

X-RAY SOURCE

160 kV MICROFOCUS X-RAY SOURCE L10711-26

FEATURES

- High stability
- Dual cathode mode
 - High resolution: 0.2 μm (S mode)
 - High intensity : 9.6 W (W mode)
- No high voltage cable connection required
- Easy to replace cathode
- Easy operation



SPECIFICATIONS

Parameter		Description / Value	
		S mode	W mode
Cathode material		LaB ₆ (Single crystal)	W (Tungsten)
Maximum tube voltage ^①		168 kV	
X-ray tube voltage setting range		20 kV to 160 kV	
X-ray tube current setting range		0 μA to 200 μA	
Minimum resolution ^{②③}		0.2 μm ^④	0.8 μm
Maximum target current		50 μA	60 μA
Target type		Transmission type	
X-ray beam angle (Max.)		Approx. 120°	
Target material		Tungsten	
X-ray output window material		Diamond	
Focus to object distance (FOD)		0.3 mm	
Protection		External short-circuit method (Normally closed)	
Interlock 1 / Interlock 2		36 V DC / 12 V DC	
Input voltage (AC)	X-ray control unit	100 V to 240 V (50 Hz / 60 Hz) ^⑤	
Power consumption (Max.)	X-ray control unit	410 W	
Rated output		Continuous operation	
Cooling method	X-ray tube unit / X-ray control unit	Water cooling / Air cooling	
Weight		Approx. 96.2 kg	
Operating ambient temperature		+15 °C to +40 °C	
Storage temperature		+5 °C to +50 °C	
Operating and storage humidity		20 % to 85 % (No condensation)	

NOTE: ① Maximum tube voltage during the warm-up period.

② X-ray chart use

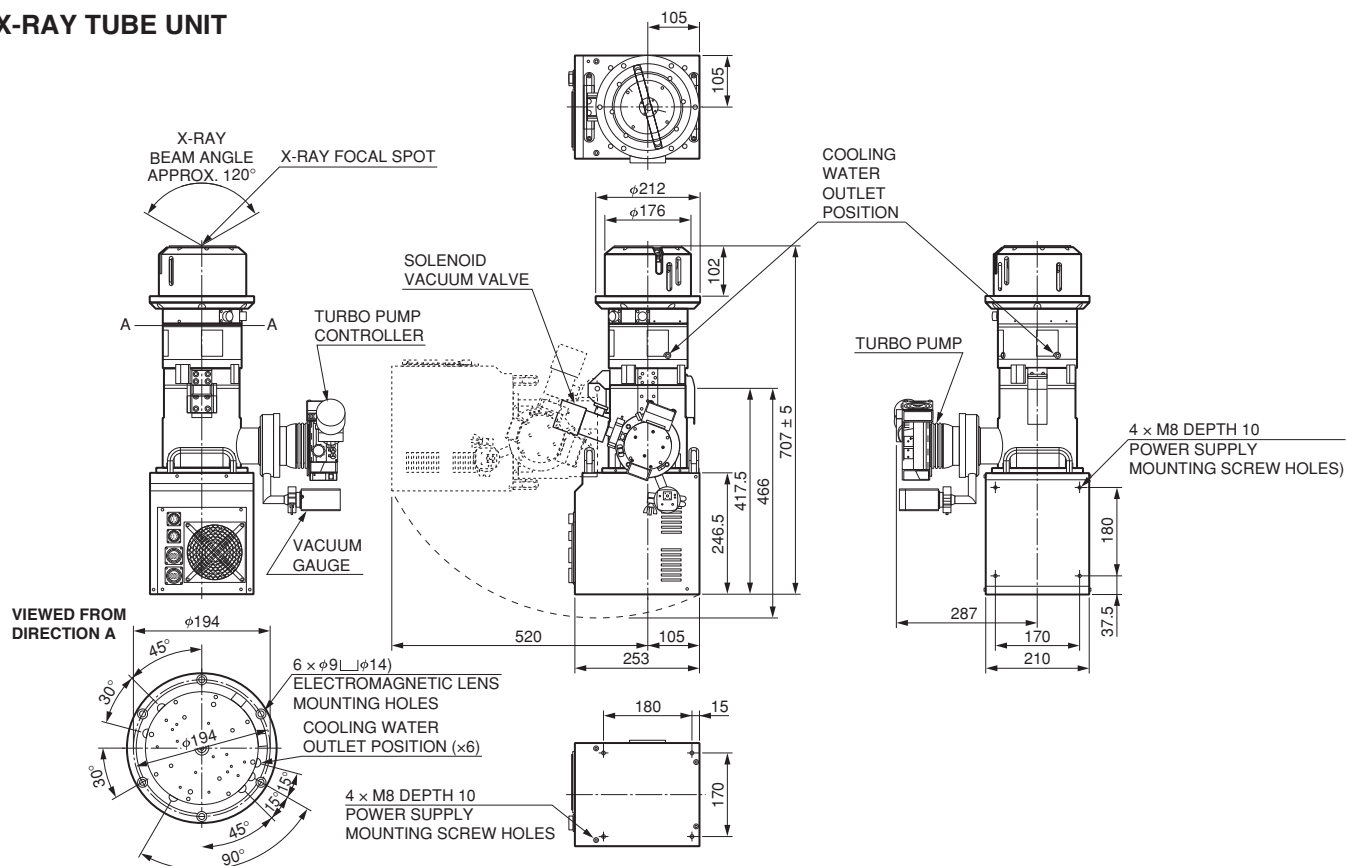
③ Guaranteed values are defined separately

④ Suitable measurement conditions (environment and equipments) are necessary.

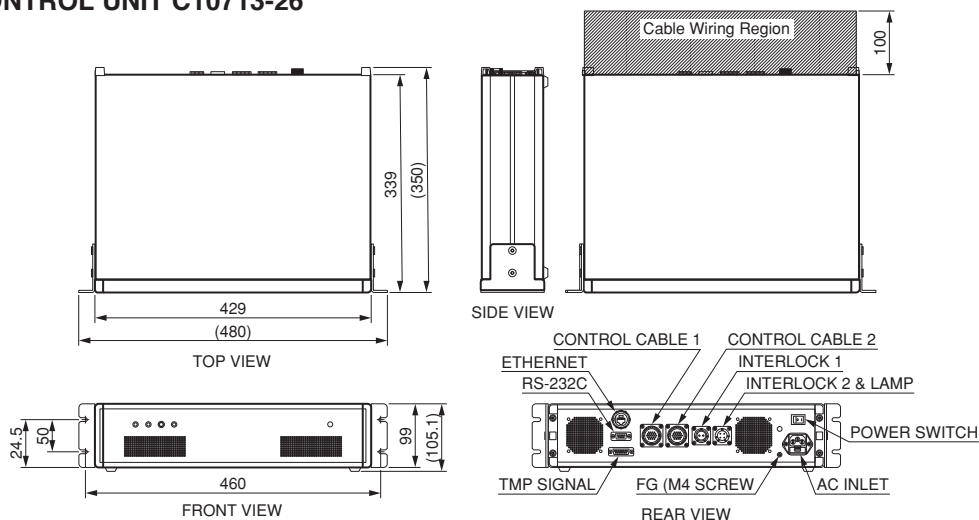
⑤ Auto switching

(Unit: mm)

●X-RAY TUBE UNIT



●X-RAY CONTROL UNIT C10713-26



System configuration of L10711-26: X-ray tube unit + X-ray control unit (C10713-26) + accessories



PRE-CAUTION TO USE

1. X-ray emitted from this device is harmful for human body. And it should be necessary for the operator to protect himself/herself from it.
2. During an operation, the X-ray tube unit should be installed in the X-ray shielded facility or area in order to avoid any X-ray leakage. Also the interlock system in X-ray control unit should be always used in order to avoid any misoperation.

OPERATIONAL CAUTION

The product may be subject to governmental occupational radiation hazardous regulation therefore the necessary application must be filed according to the local regulation.

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