

THX 225

Monopolar X-ray tubes

New

- Water-cooled anode
- 225 kV operating voltage
- Compact and easy plug-in
- Robust design for long life expectancy
- Fully compatible with most generators





THX 225

The THX 225 X-ray monopolar tubes are based on Thales advanced metal-ceramic technology. The ceramic's dielectric strength provides a high reliability and a long life expectancy within a compact and light design to facilitate OEM integration.

Featuring a water-cooled anode and a tungsten cathode with direct heating, THX 225 tubes generate high-energy X-rays (450 - 4 000 W) with various focal spots from 0.2 to 5.5 mm.

Special available versions:

- WA: wide-angle coverage (90° x 10°),
- G: stable emission for gauging,
- Custom-designed solutions.

Typical applications include in-line inspection, continuous gauging, non-destructive testing, baggage screening and explosive detection systems.

All these products are designed, developed and manufactured at an ISO 9001:V2000 and ISO 14001 certified production facility.

Reference	THX 225 G	THX 225 1055 WA	THX 225 1055	THX 225 1030	THX 225 0510		
Nominal voltage	225	225	225	225	225	kV	max.
Focal spot size (1)							
• small focus	-	0.4	0.4	0.4	0.2	mm	
• large focus	3.0 x 5.5	3.0	3.0	1.5	0.4	mm	
Power							
• small focus	-	640	900	900	450	W	max.
• large focus	4 000	3 000	4 000	2 700	900	W	max.
Filament current							
• small focus	-	4.3	4.3	4.3	4.3	A	max.
• large focus	4.2	4.2	4.1	3.7	3.8	A	max.
Filament voltage (2)							
• small focus	-	2.3	2.3	2.3	2.3	V	typ.
• large focus	5.5	5.5	5.5	5.5	5.0	V	typ.
Inherent filtration	1 mm Be	1 mm Cu	1 mm Be	1 mm Be	1 mm Be		
Target material	tungsten	tungsten	tungsten	tungsten	tungsten		
Target angle	30	21	21	21	21	°	
Cooling water flow	5	6.5	5	5	5	l/min	min.
Water temperature at inlet	35	50	35	35	35	°C	max.
Radiation coverage	40	90 x 10	40	40	40	°	
Weight	12	12	12	12	12	kg	

(1) GOST (Russia)

(2) At If max. The filament voltage at maximum filament current will vary from tube to tube. The precise value for each tube is supplied on the tube labeling.



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