



THX 160

The THX 160 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 160 tubes generate high-energy X-rays (450 - 4 000 W) with various focal spots from 0.5 to 8.5 mm.

Special available versions:

- G: stable emission for gauging,
- Custom-designed solutions.

Typical applications include in-line food 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 160 G	THX 160 1055	THX 160 1030	THX 160 1010	THX 160 0510		
Nominal voltage	160	160	160	160	160	kV	max.
Focal spot size (1)							
• small focus	-	1.0	1.0	1.0	0.5	mm	
• large focus	5.5 x 8.5	5.5	3.0	1.0	1.0	mm	
Power							
• small focus	-	900	900	900	450	W	max.
• large focus	4 000	4 000	2 700	900	900	W	max.
Filament current							
• small focus	-	4.3	4.3	4.3	4.3	A	max.
• large focus	4.2	4.1	3.7	4.3	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	2.3	5.0	V	typ.
Inherent filtration	1	1	1	1	1	mm Be	
Target material	tungsten	tungsten	tungsten	tungsten	tungsten		
Target angle	30	21	21	21	21	°	
Cooling water flow	5	5	5	5	5	l/min	min.
Water temperature at inlet	35	35	35	35	35	°C	max.
Radiation coverage	40	40	40	40	40	°	
Weight	6.5	6.5	6.5	6.5	6.5	kg	

(1) EN = 12543

(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.



This document cannot be considered to be a contractual specification. The information given herein may be modified without notice due to product improvement or further development. Consult Thales Electron Devices before making use of this information for equipment design.

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