





THX 100

The THX 100 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 100 tubes generate high-energy X-rays (450 - 3 000 W) with various focal spots from 0.2 to 5.5 mm.

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 100 1055	THX 100 1030	THX 100 0510		
<b>Nominal voltage</b>	100	100	100	kV	max.
<b>Focal spot size (1)</b>					
• small focus	0.4	0.4	0.2	mm	
• large focus	3.0	1.5	0.4	mm	
<b>Power</b>					
• small focus	900	900	450	W	max.
• large focus	3 000	2 500	900	W	max.
<b>Filament current</b>					
• small focus	4.3	4.3	4.3	A	max.
• large focus	4.1	3.7	3.8	A	max.
<b>Filament voltage (2)</b>					
• small focus	2.3	2.3	2.3	V	typ.
• large focus	5.5	5.5	5.0	V	typ.
<b>Inherent filtration</b>	1	1	1	mm Be	
<b>Target material</b>	tungsten	tungsten	tungsten		
<b>Target angle</b>	21	21	21	°	
<b>Cooling water flow</b>	5	5	5	l/min	min.
<b>Water temperature at inlet</b>	35	35	35	°C	max.
<b>Radiation coverage</b>	40	40	40	°	
<b>Weight</b>	9	9	9	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.



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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