SECURITY
NDT

MB 380 H 380 C
MB 350 H 350 C
MB 320 H 420 C

X-ray tube housing assemblies

- High operating voltages up to 450 kV
- Low filtration Be Window
- Power up to 4.5 kW
- Small focal spots for CT and high resolution
- Also available in fan beam versions

THALES

SECURITY
NDT

MB 450/1 H450 C

The MB 450/420/350 H450 C family of oil-cooled, center-grounded metal-ceramic tubes are designed to give high power levels of x-rays, with high penetration energies. These directional beam tubes are equipped with dual focal spots and a Beryllium output window for optimal image resolution across the entire kV range.

The /3 types are particularly appropriate for high resolution imaging and for computer tomography applications.

All of our x-ray products are designed, developed and manufactured at our own ISO 9001:V 2000 and ISO 14001 certified production site.

Tube reference	MB 320/1 H320 C	MB 350/1 H350 C	MB 380/1 H380 C	MB 320/3 H320 C	MB 350/3 H350 C	MB 380/3 H380 C		(4) (3)
Nominal voltage	320	350	380	320	350	380	kV	max
Focal spot size (1)								
• Small focal spot		1.5			0.8		mm	
• Large focal spot		3.5			1.8		mm	
Power								
• Small focal spot		1 500			960		W	max.
• Large focal spot	4 200	4 200	4 500		2 250		W	max.
Filament current								
• Small focal spot		3.8			3.8		A	max.
• Large focal spot		5.5			3.8		A	max.
Filament voltage (2)								
• Small focal spot		5.3			5.5		V	typical
• Large focal spot		10.3			7		V	typical
Anode angle		21			10		°	
Radiation coverage		40			30 x 40		°	
Target material		Tungsten			Tungsten			
Inherent filtration		7mm Be + 0.5 mm Cu			7mm Be + 0.5 mm Cu			
Cooling oil flow		19			17		l/min	min.
Weight	41	45	54	41	45	54	kg approx	

(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 label.
(3) Light weight tube housing H320C, H350C, H380C produced by TESTRON (Russia) /.
(4) MB320/1 and MB320/3 is limeted version of MB350/1 and MB350/3; MB380/1 and MB380/3 is limited version of MB420/1 and MB420/3