

GE Millennium MG* Specifications

Specification	Parameter	Range	Data
Available Imaging Area			37 x 52 cm
	No cutoff comers		14.5 x 20.5"
Useful Field of View (NEMA)			36 x 51 cm
	No cutoff comers		14.1 x 20.1"
Crystal Thickness			8.5 mm (3/8")
Photomultiplier Tubes (48 Square)			77 mm (3")
Energy Range			55 - 540 keV
Dead Time			0.7 ms
Intrinsic Spatial Resolution	UFOV FWHM	<=	3.9 mm
	UFOV FWTM	<=	7.6 mm
	CFOV FWHM	<=	3.9 mm
	CFOV FWTM	<=	7.6 mm
Intrinsic Energy Resolution (Tc99m)	UFOV FWHM	<=	9.7% @ 20kc/s
Intrinsic Flood Field Uniformity			
Integral (max deviation)	UFOV	<=, +/-	3.5%
	CFOV	<=, +/-	3.0%
Differential (max deviation)	UFOV	<=, +/-	2.5%
	CFOV	<=, +/-	2.0%
Intrinsic Spatial Linearity			
Absolute	UFOV	<=	0.5 mm
	CFOV	<=	0.5 mm
Differential	UFOV	<=	0.2 mm
	CFOV	<=	0.2 mm
Intrinsic Count Rate			
20% count rate loss, 20% window			
Incident		>=	260 kc/s
Observed		>=	325 kc/s
Maximum Count Rate (Observed)		>=	325 kc/s
System Count Throughput (Nuclear)		>=	480 kc/s
Point Source Sensitivity		<=, +/-	3.0%
Multiple Window Spatial Registration		<=	2.0 mm



Description	Field of View (mm)	Calc. Penetration (a)		System Sensitivity (b)		System Resolution (c)		Hole Type	Diameter of Holes (mm)	Hole #	Thickness of Septa (mm)	Length of Holes (mm)
		5% keV	15% keV	(cts/min/uCi) @ 100 mm	(cts/min/uCi) @ 100 mm	FWHM (mm) @ 100 mm	FWHM (mm) @ 100 mm					
LEGP	536 x 380	180	218	316		10.0		Hex	2.5	31107	0.25	43
LEHR	536 x 380	176	214	180		7.9		Hex	1.8	60007	0.18	41
MEGP	536 x 380	311	393	294		13.4		Hex	3.0	13336	1.2	42
HEGP	536 x 380	360	462	257		13.5		Hex	3.4	9225	1.65	46
LEUHS	536 x 380	167	202	902		15.2		Hex	3.4	16729	0.36	34.5
HEPINH	192	N/A	N/A	Co57	I-131	Co57	I-131	Circ	3 Inserts	1	N/A	N/A
				53	26	4.56	6.08					
				233	86	8.44	10.35					
				716	226	14.49	16.60					

(a) - The calculated % penetration values indicate the photon energies at which 5% and 15% of the incident photons are transmitted along the shortest path through the septum.

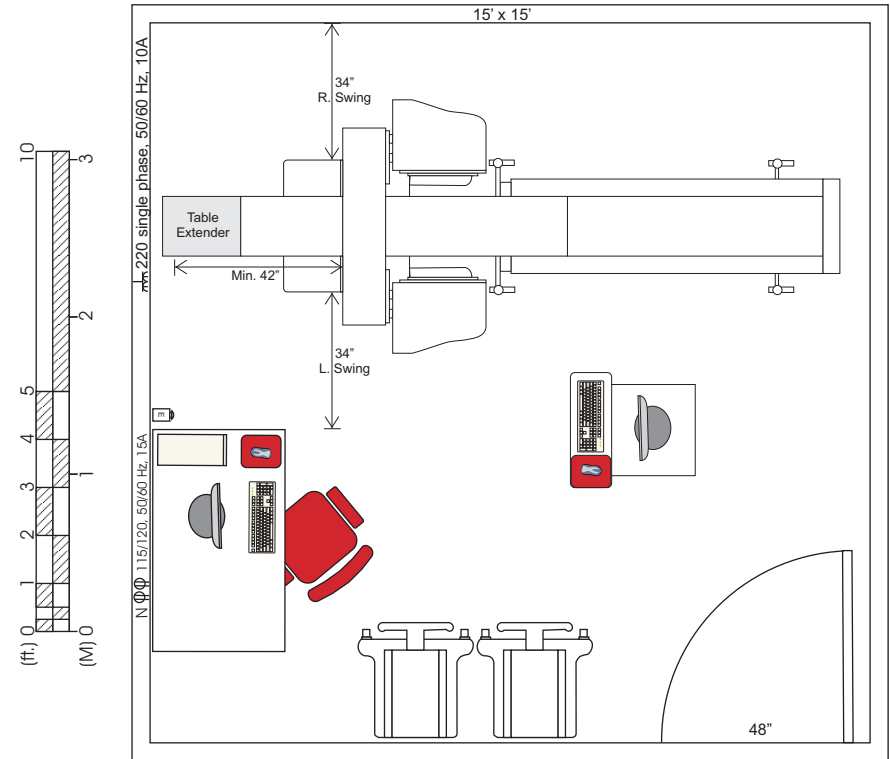
(b) - The values quoted are the cpm/uCi for the appropriate isotope for the collimator (Tc99m with a 20% window for low energy collimators). Sensitivity measured with a tolerance of +/- 10%.

(c) - Tolerance of +/- 4% on resolution.

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Gantry Dimensions	Data
Length	1.25 m (49")
Width	1.25 m (49")
Height	1.58 m (62")
Weight (Gantry w/ 2 Detectors)	1630 kg (3586 lb)
Leveling Pad Point Loading (HEGP)	175 lb/in ² (12.3 kg/cm ²)
Rotational Motion Speed	0.2 RPM or 1.0 RPM
Radial Motion Speed	5 mm/sec or 13 mm/sec
Emergency Stops	2
Axial (Around Ring)	540 (+/- 270) Degrees
Variable Geometry	180 & 101.25 Degrees
Detector Radius w/ LEGP	10.6 cm (4.2") to 28.6 cm (11.3")

Table Dimensions	Data
Weight	370 kg (814 lb)
Wheel Point Loading	197.3 lb/in ² (13.8 kg/cm ²)
Maximum Scan Length	1.9 m (74")
Table Top Width	38.7 cm (15.25")
Height	61 cm (24") to 86 cm (34")
Capacity	181 kg (400 lb)
Lateral Motion Range	+/- 11 cm (4.3")
Handheld Controller Speed	
Longitudinal	10 - 40 mm/sec
Vertical	5 - 7.6 mm/sec
Lateral	3 - 20 mm/sec
Computer Controller Speed	
Longitudinal	0.4 - 40 mm/sec
Vertical	0.1 - 7.6 mm/sec
Lateral	0.1 - 20 mm/sec
Emergency Stops	2



Facility Requirements	Data
Minimum Room Size	15' x 10' (4.57 x 3.05 m)
Optimum Room Size	15' x 15' (4.57 x 4.57 m)
Minimum Door Opening, Requires:	914 mm (36")
Minimum Hallway Width	1040 mm (41")
Minimum Doorway Depth	178 mm (7")
Elevator Capacity	1800 kg (3968 lb)
Ambient Magnetic Fields (AC or DC)	
Detectors	< 0.5 Gauss
Computers	< 3.0 Gauss
Power Requirements	100VAC +/- 10%, 30A, 50Hz 120VAC +/- 10%, 20A, 60Hz 200VAC +/- 10%, 15A, 50Hz 220VAC +/- 10%, 10A, 50Hz 240VAC +/- 10%, 10A, 50Hz
Operating Temperature Range	15 - 35 C (59 - 95 F)
Recommended Temperature Range	15 - 27 C (59 - 81 F)
Storage Temperature Range	7 - 40 C (45 - 104 F)
Relative Humidity, Non-Condensing	20 - 80%

* Millennium MG es marca registrada de GE Healthcare, una división de General Electric Company.