

Appendix B – Weights, Measurements, Power, Floor and Environmental Requirements

The information provided in this appendix is included throughout the Site Preparation manual but is supplied here for quick reference purposes.

B.1 Weights and Measurements

Table B–1: Gantry Weights and Measurements (Crated)

Unit	Weight	Dimensions / mm (in)		
	kg (lbs)	Height	Length	Width
Gantry & Detectors	2800 (6173)	2085 (82)	2340 (92)	1286 (50.6)
Covers Hawkeye	150 Kg (331)	1483 (58.4)	1458 (57.4)	1058 (41.7)
Covers (No Hawkeye)	150 Kg (331)	1174 (2588)	1688 (65.66)	1058 (41.7)

Table B–2: IPS Weights and Measurements (Crated)

Unit	Weight	Dimensions / mm (in)		
	kg (lbs)	Height	Width	Depth
IPS	150 (331)	713 (1572)	1140 (2513)	640 (25.2)

Table B–3: Patient Table Weights and Measurements (Crated)

Unit	Weight	Measurements / mm (in)		
	kg (lbs)	Height	Width	Depth
Table	600 (1323)	1275 (50.2)	2854 (112)	872 (34)

Table B–4: Acquisition Computer Weights and Measurements (Crated)

Unit	Weight	Measurements / mm (in)		
	kg (lbs)	Height	Width	Depth
Computer, Monitor & Accessories	100 (220)	938 (36.9)	1325 (52.2)	895 (35.2)

Table B–5: Collimator Cart Weights and Measurements (Crated)

Collimator	Weight kg (lbs)	Measurements / mm (in)		
		Height	Width	Depth
LEGP-35	260 (573)	1462 (57.6)	1080 (42.5)	750 (29.5)
LEHR-45	280 (617)	1462 (57.6)	1080 (42.5)	750 (29.5)
MEGP-5	367 (809)	1462 (57.6)	1080 (42.5)	750 (29.5)
MEGP-6	423 (933)	1462 (57.6)	1080 (42.5)	750 (29.5)
Pinhole and Dummy	309 (681)	1462 (57.6)	1080 (42.5)	750 (29.5)

Table B–6: Hawkeye System Integrated Options (incl packaging)

Package	Dimensions (L, W, H)		Weight	
	cm	inch	kg	lb.
X-ray Source Assy.	L:100 W:60 H: 60	L:39.37 W:23.6 H:23.6	110	243
X-ray Detectors Assy.	L:100 W:60 H: 60	L:39.37 W:23.6 H:23.6	110	243
Mech. Assy., Documentation + SW	L: 60 W:70 H: 80	L:23.6 W:27.6 H:31.5	30	66

Table B–7: System Component Weights & Measurements

Unit	Net Weight	Measurements / mm (in)		
	kg (lbs)	Height	Width	Depth
Gantry (incl detectors) 3/8"	2250 (4960)	1680 (66.14)	1035 (40.75)	1600 (63)
Gantry (incl detectors) 1"	2270 (5004)	1680 (66.14)	1035 (40.75)	1600 (63)
Gantry—Full Configuration ^a	2700 (5952)	1900 (74.8)	1750 (68.9)	1950 (76.8)
Collimator Cart	65 (143)	1257 (49.5)	907.5 (35.7)	500 (19.7)
Collimator LEGP-35	50 (110)	698 (27.5)	61.0 (2.4)	615.5 (24.2)
Collimator LEHR-45	60 (132)	698 (27.5)	61.0 (2.4)	615.5 (24.2)
Collimator HEGP-6	131 (289)	698 (27.5)	86.5 (3.4)	615.5 (24.2)
Collimator MEGP-5	103 (227)	698 (27.5)	78.5 (3.1)	615.5 (24.2)
Collimator Pinhole	98 (216)	698 (27.5)	178 (7.0)	615.5 (24.2)
Collimator Pinhole Dummy	50 (110)	698 (27.5)	61.0 (2.4)	615.5 (24.2)
Table & Stretcher	400 (880)	Raised - 867 (34.1) Lowered - 567 (22.3)	2500 (98.4)	700 (27.6)
IPS	41.2 (90.8)	418 (16.5)	877 (34.5)	454 (17.9)

a. **With** heaviest collimators and Gantry Display Arm but **without** Hawkeye option.

NOTE: If the Hawkeye option is installed, add 100 kg (220 lbs)

Table B–8: Gantry - Weights, Measurements and Clearance

Height of Gantry mounted on dolly - (dolly allows 45 mm floor clearance)	1,800 mm (71")
Weight of Gantry mounted on dolly	2,650 kg (5842 lb.)
Minimum hall width allowing the Gantry to be wheeled around 90° corners	1,800 mm (70.9")
Minimum width to allow gantry to move through 48" (1219 mm) doorway	2600 mm
Minimum Door Width	1140 (45")

Table B–9: Patient Table - Weights, Measurements and Clearance

Minimum hall width allowing the Table to be wheeled around 90° corners	2,000 mm (78.74")
Path slope	< 4% (4 cm / 100 cm; 1.57" / 39.37")
Table length	2,505 mm (98.62")
Weight of Table mounted on moving wheels	410 kg (902 lb.)

B.2 Site Requirements

Table B–10: Floor Leveling Specifications

Floor Leveling Area	14' X 16' (427 cm x 488 cm) minimum
Slope	Within $\pm 1\frac{3}{16}$ " over 170" (± 3 cm over 430 cm)
Flatness	Surface should be smooth and have no more than 3/16" (0.5 cm) deviation in any 60" (150 cm) throughout the room or system installation area
Floor Surface	Floor should be single poured surface.

B.3 Power Requirements

Voltage Tolerance	+10%, -5% from nominal
Load Regulation	Maximum 5% for load of 20A per phase
Frequency	50 or 60 Hz \pm 1Hz

Spikes Line to Neutral		
Spikes	Phase Voltage	
	230 V Line	120 V Line
Spike "A"	< 1200 V	< 900 V
Pulse Width	< 10 μ s	< 10 μ s
Rise Time	> 1 μ s	> 1 μ s
Spike "B"	< 800 V	< 400 V
Pulse Width	< 100 μ s	< 100 μ s
Spike "C"	< 400 V	< 200 V
Pulse Width	< 200 μ s	< 200 μ s
High Frequency (Line to Neutral)	< 1V RMS 0.15 to 30 MHz	

Table B–11: Major Cables List

Cable Type	Length
A. Table Cable (from Gantry to Table)	11.0 m (36.1 ft)
B. Computer Cable (from Gantry to Computer)	9.5 m (31.17 ft)
C. Long Computer Cable	15.0 m (49.22)
D. Main Power Cable (from Power Outlet to Gantry)	9.4 m (30.84 ft)
E. Computer to Persistence Monitor (optional)	15.0 m (49.22 ft)

B.4 Environment Specifications

Table B–12: Environment Specifications

PARAMETER	REQUIRED ENVIRONMENT SPECIFICATIONS
Temperature	20 - 25 °C (68 - 77 °F)
Maximum Gradient	3 °C / hour (5.4 °F / hour)
Humidity	40 - 70% RH non-condensing
Magnetic Field in Camera Room	Less than 1Gauss

Table B–13: Equipment Thermal Loads

Equipment	Watts	BTU/Hour
Gantry	2,100	7,200
Patient Table	100	342
Hawkeye Option	420	1438
Computer	350	1,200
Monitor	120	411
UPS (where applicable)	According to manufacturer's specifications	
Total (without Hawkeye Option)	2,570	8,811
Total (including Hawkeye Option)	2,770	10,591