

6.2 Specifications

6.2.1 Specification

Table 6.2 Specifications

Item		Description	
Max, allowable mass of suspension		39 kg	
Balancing system		Spring-balancing type	
Ceiling fixture	Rail	Fixed rail of 4 m or 5.5 m length	
		Moving rail of 2 m, 2.6 m or 3.3 m length	
	Cabling	Cable hose	Cabling in the longitudinal and transversal directions using cable hoses
		Cable bear (Option)	Cabling in the longitudinal and transversal directions using cable bears
Movement of X-ray tube assembly	Vertical	160 cm	Electro-magnetic lock Lock pin mechanism can be skipped when moving at a speed higher than 25 cm/s.*2
	Longitudinal	295 cm*1	
	Transversal	140 cm*1	
Rotation of X-ray tube assembly	Around vertical axis	± 180°*3 Stops at every 90° angle. The equipment can be fixed at an intended angle with the electro-magnetic lock.	
	Around horizontal axis	-180° to +120° Stops at 0°, ± 90° and -180° The equipment can be fixed at an intended angle with the electro-magnetic lock. Lock pin mechanism can be skipped when rotating at a speed higher than 110°/s.	
Display range	SID (Option)	0 to 999 cm	
	Rotation angle	Ceiling tube support mount position	(Unit: °) (+: clockwise, -: counterclockwise)
		Upper left	0 to +120, 0 to -180
		Lower left	0 to +120, 0 to -180
		Upper right (Standard)	0 to +120, 0 to -180
		Lower right	0 to +120, 0 to -180
Tracking unit (Option)	Vertical tracking	X-ray tube assembly tracks the center of the X-ray field of the Bucky of Shimadzu's stand or other manufacturer's stand. Tracking reference position: Top reference, Center reference	
	Horizontal tracking	X-ray tube assembly moves to keep FFD constant for Shimadzu's table or other manufacturer's table.	

Item		Description
Tracking Switch kit (Option)	Irradiation field	Size types: Inches or cm, vertical and horizontal dimensions interchangeable When the size types are inches 17×17, 17×14, 14×14, 14×11, 12×10, 10×8, 17×7* ⁴ When the size types are cm 43×43, 43×35, 35×35, 40×30, 30×24, 24×18, 43×18* ⁴
	Radiography reference position* ⁴	Top reference, Center reference
	Tracking operation	In conformity with the tracking function
Tube support (option)* ⁵	Front mount	Tube support of standard type with control panel attached to the front of the X-ray tube unit.
	Rear mount	Tube support of type with control panel attached to the opposite side of the X-ray tube unit. Eases operations when the ceiling tube support is installed against the wall of the examination room.
	Low ceiling type	Tube support of front mount type with X-ray tube unit attached 150 mm higher. Maintains SID in supine position radiography in examination rooms with low ceilings.
	Front mount L	Tube support of front mount type with X-ray tube unit attached 80 mm lower. Eases positioning by preventing interference between the lower edge of the tube support and the tabletop during lateral radiography using the radiography table.
Installation requirement	Standard height of ceiling	286 cm* ⁶
	Installation area	A square of 250 cm × 450 cm or more, with door opening of 60 cm width.
	Gross mass	250 kg
	Power supply	Single phase AC100 V, 0.7 kVA, Max. 1.4 Ω, 50/60 Hz (Supplied from X-ray high voltage generator)

*1: In the case of a 4 m fixed rail and a 2 m moving rail. For rails of other dimensions, refer to Table 6.3.

*2: This is available in the longitudinal and transversal directions only when equipped with a position detecting mechanism.

*3: -90° to +30° for Low-ceiling type

*4: Can be set when the equipment is combined with certain X-ray radiography stands only.

*5: Additions and changes to the tube support option offer ways to maintain operability when the layout of the examination room has changed.

*6: The ceiling height of 286 cm satisfies the specification of the CH-200M (The recommended ceiling height for Low-ceiling type is 271 cm.); but the height can be less than this dimension but the vertical travel range may be restricted.

6 Specifications

Table 6.3 Length of the rail and the moving range of device (Unit: m)

Rail		Moving range of device	
Fixed rail	Moving rail	Longitudinal	Transversal
4	2	2.95	1.4
4	2.6	2.95	2.0
4	3.3	2.95	2.7
5.5	2	4.45	1.4
5.5	2.6	4.45	2.0
5.5	3.3	4.45	2.7

6.2.2 Distance from Spot to Reception Area

Distance from spot to reception area varies according to the unit combination.

Unit combination			Distance from spot to reception area (mm)
X-Ray Tube Unit	Collimator	X-Ray Radiography table	
CH-200M (Ceiling height: 2860 mm)	R-20J	BK-12HK	337-1374
		BK-120MK	337-1524
		BK-200	343-1530