## SHIMADZU

# PRODUCT DATA

# RADspeed Pro

style edition MF Type



#### **GENERAL**

RADspeed Pro MF Type is a radiographic system that provides a comfortable examination environment for operator and patient alike.

The TM and ® symbols are omitted in this document.



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#### **FEATURES**

#### (1) Space saving concept

The compact, space-saving high voltage generator and tube support provides working space and flexible layout.

#### (2) 50kHz Inverter system

Microprocessor-controlled, maximum 50kHz High frequency inverter system creates very low ripple kV waveform with high X-ray quantum efficiency, which reduces unwanted X-rays.

#### (3) Preset memory

The preset memory allows the most commonly used techniques to be programmed. By pressing the program selector key, automatic selection can be made for radiographic factor, tube focus, etc.

#### (4) Unique Color-coded Status display (option)

A LED frame of operation console is functioning as color-coded status indicators and it changes color corresponding to the status. Operator can easily confirm when it is ready or when exposed. Illumination color code is selectable from Blue, Turquoise, Red, Purple and Light purple.

Illumination hand switch functions as well.

# (5) Energy saving collimator with a bright irradiation field

LED is adopted as the light source to indicate the irradiation field. This reduces power consumption and improves brightness levels and durability.

#### (6) Dose Management

A calculated Dose Area Product is available. After the exposure, the calculated Dose Area Product, based on the actual exposure parameters, is displayed. The measured exposure parameters and calculated Dose Area Product can be displayed on a Generator console and sent to RIS/PACS system. (option)

#### (7) Removable Grid

Removing the grid during radiography allows reducing the exposure dose level in pediatric and orthopedic applications. Radiography is also possible using phototimer.

#### (8) Heavy Duty 4-way floating table

The bucky table can support up to 200kg. Patient positioning is made easier with the extremely smooth-moving tabletop. Only longitudinal slide is available using dedicated switch.

#### (9) Upgradable to DR system

The DR\*) system significantly improves diagnostic accuracy and workflow.

\*) The DR system is not a component of RADspeed Pro. Please use one belonging to your facility.



#### SYSTEM CONFIGURATION

The RADspeed Pro MF Type consists of X-ray high-voltage generator, X-ray tube assembly, collimator, and X-ray tube support and if necessary, X-ray radiography table and/or X-ray radiography stand.

#### System configuration and accompanying documents

Component	Model Name
Whole system	RADspeed Pro
X-ray high voltage generator	80kW type: Operation Panel: GSC-2002S Control cabinet: D150BC-41 65kW type: Operation Panel: GSC-2002S Control cabinet: D150VC-41 50kW type: Operation Panel: GSC-2002S
	Control cabinet: D150LC-41 0.6/1.2P324DK-85, 0.6/1.2P364DK-85
	0.6/1.2P164DK-85
	0.6/1.2P323DK-85
	0.6/1.2P38DE-85, 0.6/1.2P33DK-85
X-ray tube assembly	0.6/1.2P18DE-85, 0.6/1.2P13DK-85
	1/2P18DK-85, 1/2P13DK-85
	0.3/0.8P324DK-85
	0.3/0.8P323DK-85
	0.3/0.8P18DK-85
Floor mount X-ray tube support	FH-20HR, FH-21HR
X-ray Bucky stand	BR-120M
	BK-120MK
X-ray Bucky table	BK-12HK
X-ray Collimator	R-20J



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#### **SPECIFICATIONS**

X-Ray High Voltage Generator 80kW type/65kW type/50kW type

	Item			Specifications
Radiogra	aphy techniqu	9	General radiogr	aphy, Bucky radiography, Digital radiography
	of connectabl		1 tube	<u> </u>
Setting	Radiography		40 to 150kV	
range		Tube current	80kW type:	10 to 1,000mA
*1 *2			65kW type:	10 to 800mA
			50kW type:	10 to 630mA
		mAs	0.5 to 800mAs	
		Time	0.001 to 10sec	
Nominal	supply voltag	e (50/60Hz)	80kW type, 65k	W type:
		,		0/220/240/380/400/415/440/480VAC, 3-phase
			50kW type :	
			200	0/220/240/380/400/415/440/480VAC, 3-phase
			or	
			200	0/220/240VAC, single-phase
			Factor dependir	ng on the waveform: 1.00
Power in	nput		80kW type, 65k	W type:
				3-phase AC: 120kVA
			50kW type:	3-phase AC: 80kVA or single-phase AC: 95kVA
Rated o	utput		80kW type:	80kW (100kV, 800mA)
			65kW type :	65kW (100kV, 650mA)
			50kW type :	50kW (100kV, 500mA)
			Product of tube	voltage and max. current that can flow in 0.1s a
Short-tin	ne rating *1		80kW type:	150kV 500mA, 125kV 630mA, 100kV 800mA, 80kV 1000mA
			65kW type :	150kV 400mA, 125kV 500mA, 100kV 650mA,
			501347	80kV 800mA
			50kW type :	150kV 320mA, 125kV 400mA, 100kV 500mA, 80kV 630mA
Nominal	max. tube vol	tage and max.	80kW type:	Short-time rating: 150kV 500mA
tube cur	rent that can f	ow at nominal		Long-time rating: 125kV 12mA
max. tub	oe voltage *1		65kW type:	Short-time rating: 150kV 400mA
				Long-time rating: 125 kV 9mA
			50kW type:	Short-time rating: 150kV 320mA
			0011477	Long-time rating: 125kV 9mA
	e current and	max. tube	80kW type :	Short-time rating: 80kV 1000mA
voltage			CELAN to us a .	Long-time rating: 75kV 20mA
to acnie	ve max. tube o	current *1	65kW type :	Short-time rating: 80kV 800mA Long-time rating: 125kV 9mA
			50kW type:	Short-time rating: 125kV 9ffA
			JUNIVITYPE.	Long-time rating: 30kV 030mA
Tube vo	Itage and tube	current	80kW type:	Short-time rating: 80kV 1000mA, 100kV 800mA
Tube voltage and tube current combination for max. electrical output *1		OURVV type .	Long-time rating: 75kV 20mA, 125kV 12mA	
		65kW type:	Short-time rating: 100kV 650mA	
				Long-time rating: 125kV 9mA
			50kW type:	Short-time rating: 80kV 630mA, 100kV 500mA
			,,	Long-time rating: 125kV 9mA
Dimensi	ons	Operation panel	308(W) x 345(H	
	F	Control cabinet		(H) x 400(D)mm
Mass		Operation panel	2kg	
			0501	
Mado		Control cabinet	80kW type, 65k	W type: 250kg

<sup>\*1:</sup> Specifications are limited according to the X-ray tube type.

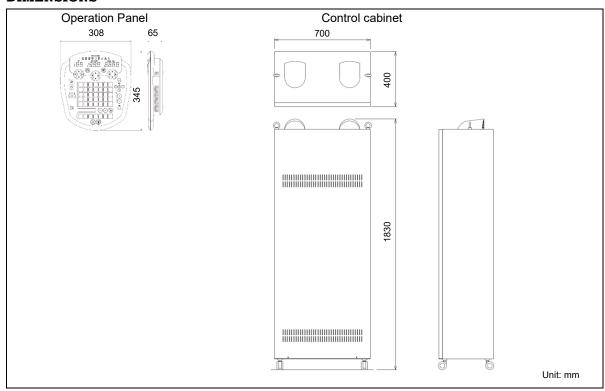
Tube voltage (within  $\pm$ 10 %), Tube current (within  $\pm$ 20 %) mAs within  $\pm$ 1 (10 % + 0.2 mAs), Time within  $\pm$ 2 (10 % + 1 ms)

<sup>\*2:</sup> The various conditions are as follows (conform to IEC-standards):



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#### **DIMENSIONS**



**Options** 

<u> </u>	
Item	Specifications
Direct phototimer	Combination with a Shimadzu receiver permits phototimer(AEC) radiography. The
(AEC)	following types can be used:
radiography	Xe detector-type phototimer receiver (SPT-XD series)
option	Number of pick up fields: 1/3/4(3 types)
	Permitted combination: up to three receivers
Communication Unit	Permits communication of radiographic conditions with DR unit

## X-Ray Tube Assembly

#### 0.6/1.2P324DK-85 & 0.6/1.2P364DK-85

	Item			Specif	ications
Nominal X-ray tube voltage Long-time			125kV		
		Short-time	)	150kV	
X-ray tube	Max. heat co	ntent		1100kJ (1600kHU)	
assembly	Nominal con	tinuous inpu	ıt power	470W (660HU/s) (with fan	)
X-ray tube	Max. anode	heat conten	t	280kJ (400kHU)	
	Max. anode	heat dissipa	tion rate	1600W (2200HU/s)	
	Max. continu	ous heat dis	ssipation rate	300W (420HU/s)	
Nominal focal:	spot			0.6mm	1.2mm
Nominal anode	input power		324DK	38kW	92kW
(0.1sec, 180H	łz)		364DK	24kW 65kW	
Anode Target		Material		Rhenium-tungsten faced molybdenum	
		Angle/	324DK	12° / 100mm	
		diameter	364DK	16° / 100mm	
Minimum total	Filtration			1.7mm Al / 75kV (including added filter)	
Permanent Filt	Permanent Filtration		1.0mm AI / 75kV		
X-ray radiation field 324DK		350 x 350mm at SID 1m			
	364DK		350 x 350mm at SID 0.65m		
Mass (w/o Sup	port ring and I	an)	_	21kg	



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#### 0.6/1.2P164DK-85

	ltem		Specific	ations
Nominal X-ray	Nominal X-ray tube voltage Long-time		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	470W (660HU/s) (with fan)	
X-ray tube	Max. anode heat cor	ntent	280kJ (400kHU)	
	Max. anode heat dis	sipation rate	1600W (2200HU/s)	
	Max. continuous hea	at dissipation rate	300W (420HU/s)	
Nominal focal	spot		0.6mm	1.2mm
Nominal anode	e input power	50Hz	12.7kW	34.3kW
(0.1sec)		60Hz	13.8kW	37.3kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	16° / 100mm	
Minimum total	Minimum total Filtration		1.7mm Al / 75kV (including added filter)	
Permanent Filtration		1.0mm AI / 75kV		
X-ray radiation	X-ray radiation field		350 x 350mm at SID 0.65m	
Mass (w/o Sup	port ring and Fan)		21kg	

#### 0.6/1.2P323DK-85

	Item		Specific	ations
Nominal X-ray	Nominal X-ray tube voltage Lor		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	470W (660HU/s) (with fan).	,
X-ray tube	Max. anode heat co	ntent	210kJ (300kHU)	
	Max. anode heat dis	sipation rate	1200W (1690HU/s)	
	Max. continuous hea	at dissipation rate	250W (350HU/s)	
Nominal focal	spot		0.6mm	1.2mm
Nominal anode	e input power (0.1sec,	180Hz)	38kW	92kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	12° / 100mm	
Minimum total	Minimum total Filtration		1.7mm Al / 75kV (including added filter)	
Permanent Filtration		1.0mm Al / 75kV		
X-ray radiation field		350 x 350mm at SID 1m		
Mass (w/o Sup	port ring and Fan)		21kg	

#### 0.6/1.2P38DE-85 & 0.6/1.2P18DE-85

	ltem		Specific	ations
Nominal X-ray	Nominal X-ray tube voltage Long-time		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	235W (330HU/s) (without f	an)
X-ray tube	Max. anode heat cor	ntent	140kJ (200kHU)	
	Max. anode heat dis	sipation rate	640W (900HU/s)	
	Max. continuous heat dissipation rate		210W (300HU/s)	
Nominal focal	spot		0.6mm	1.2mm
Nominal anode	e input power	50Hz (18DE)	18kW	48kW
(0.1sec)		60Hz (18DE)	21kW	53kW
		180Hz (38DE)	37kW	85kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	12° / 100mm	
Minimum total	Minimum total Filtration		1.7mm AI / 75kV (including added filter)	
Permanent Filt	Permanent Filtration		1.0mm Al / 75kV	
X-ray radiation	X-ray radiation field		350 x 350mm at SID 1m	
Mass (w/o Sup	port ring and Fan)		21kg	



# style edition MF Type 0.6/1.2P33DK-85 & 0.6/1.2P13DK-85

	Item		Specific	ations
Nominal X-ray	Nominal X-ray tube voltage Long-ti		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	235W (330HU/s) (without factors)	an)
X-ray tube	Max. anode heat co	ntent	140kJ (200kHU)	
	Max. anode heat dis	sipation rate	640W (900HU/s)	
	Max. continuous heat dissipation rate		210W (300HU/s)	
Nominal focal	spot		0.6mm	1.2mm
Nominal anode	e input power	50Hz (13DK)	12.5kW	34.5kW
(0.1sec)		60Hz (13DK)	14kW	37.5W
		180Hz (33DK)	24kW	65kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	16° / 100mm	
Minimum total	Minimum total Filtration		1.7mm AI / 75kV (including added filter)	
Permanent Filtration		1.0mm Al / 75kV		
X-ray radiation	X-ray radiation field		350 x 350mm at SID 0.65m	
Mass (w/o Sup	port ring and Fan)		21kg	

#### 1/2P18DK-85

	Item		Specific	ations
Nominal X-ray	Nominal X-ray tube voltage Long-time		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	235W (330HU/s) (without f	an)
X-ray tube	Max. anode heat cor	ntent	140kJ (200kHU)	
	Max. anode heat dis	sipation rate	640W (900HU/s)	
	Max. continuous hea	at dissipation rate	210W (300HU/s)	
Nominal focal	spot		1mm	2mm
Nominal anode	e input power	50Hz	35kW	68.5kW
(0.1sec)		60Hz	39kW	75kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	12° / 100mm	
Minimum total	Minimum total Filtration		1.7mm Al / 75kV (including added filter)	
Permanent Filtration		1.0mm Al / 75kV		
X-ray radiation field		350 x 350mm at SID 1m		
Mass (w/o Sup	port ring and Fan)	<u> </u>	21kg	

#### 1/2P13DK-85

	Item		Specific	cations
Nominal X-ray	Nominal X-ray tube voltage Long-time		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	235W (330HU/s) (without	fan)
X-ray tube	Max. anode heat cor	ntent	140kJ (200kHU)	
	Max. anode heat dis	sipation rate	640W (900HU/s)	
	Max. continuous hea	at dissipation rate	210W (300HU/s)	
Nominal focal	spot		1mm	2mm
Nominal anode	e input power	50Hz	27.5kW	64kW
(0.1sec)		60Hz	30kW	70W
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	16° / 100mm	
Minimum total	Minimum total Filtration		1.7mm Al / 75kV (including added filter)	
Permanent Filtration		1.0mm Al / 75kV		
X-ray radiation	X-ray radiation field		350 x 350mm at SID 0.65m	
Mass (w/o Sup	port ring and Fan)		21kg	



## style edition MF Type

#### 0.3/0.8P324DK-85

	Item		Specifica	ations
Nominal X-ray	Nominal X-ray tube voltage Long		125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	470W (660HU/s) (with fan),	
X-ray tube	Max. anode heat co	ntent	280kJ (400kHU)	
	Max. anode heat dis	sipation rate	1600W (2200HU/s)	
	Max. continuous hea	at dissipation rate	300W (420HU/s)	
Nominal focal	spot		0.3mm	0.8mm
Nominal anode	e input power (0.1sec,	180Hz)	11kW	54kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	12° / 100mm	
Minimum total	Minimum total Filtration		1.7mm AI / 75kV (including added filter)	
Permanent Filt	Permanent Filtration		1.0mm AI / 75kV	
X-ray radiation	X-ray radiation field		350 x 350mm at SID 1m	
Mass (w/o Sup	pport ring and Fan)		21kg	

#### 0.3/0.8P323DK-85

	ltem		Specific	ations
Nominal X-ray tube voltage Long-time		125kV		
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	470W (660HU/s) (with fan)	,
X-ray tube	Max. anode heat cor	ntent	210kJ (300kHU)	
	Max. anode heat dissipation rate		1200W (1690HU/s)	
	Max. continuous hea	at dissipation rate	250W (350HU/s)	
Nominal focal	spot		0.3mm	0.8mm
Nominal anode	e input power (0.1sec,	180Hz)	11kW	54kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
		Angle/diameter	12° / 100mm	
Minimum total	Minimum total Filtration		1.7mm Al / 75kV (including added filter)	
Permanent Filtration		1.0mm AI / 75kV		
X-ray radiation	X-ray radiation field		350 x 350mm at SID 1m	
Mass (w/o Sup	port ring and Fan)		21kg	

## 0.3/0.8P18DK-85

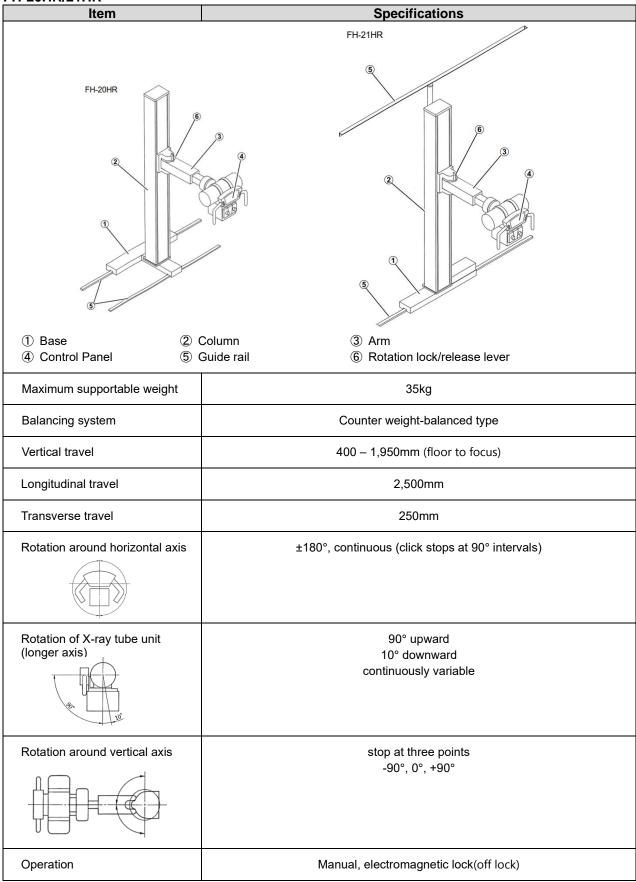
Item			Specifica	ations
Nominal X-ray tube voltage		Long-time	125kV	
		Short-time	150kV	
X-ray tube	Max. heat content		1100kJ (1600kHU)	
assembly	Nominal continuous	input power	235W (330HU/s) (without fan)	
X-ray tube	Max. anode heat content		140kJ (200kHU)	
	Max. anode heat dis	sipation rate	640W (900HU/s)	
Max. continuous heat dissipation rate		210W (300HU/s)		
Nominal focal spot		0.3mm	0.8mm	
Nominal anode	e input power	50Hz	6kW	28kW
(0.1sec)		60Hz	6.4kW	31.2kW
Anode Target		Material	Rhenium-tungsten faced molybdenum	
-		Angle/diameter	12° / 100mm	
Minimum total Filtration		1.7mm Al / 75kV (including a	added filter)	
Permanent Filtration		1.0mm Al / 75kV		
X-ray radiation field		350 x 350mm at SID 1m		
Mass (w/o Support ring and Fan)		21kg		



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## X-Ray Tube Support

#### FH-20HR/21HR



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Item	Specifications	
Ceiling height	FH-20HR : 2,300mm FH-21HR : 2350 – 2900mm	
Required space for installation	1,600(W) x 3,600(L) mm	
Mass	140kg (excluding X-ray tube assembly and collimator)	
Power source	Single phase, AC100V, 0.3kVA, 50/60Hz	

# Collimator R-20J

Item		Specifications
Max. voltage used for applicable X-ray tube		150kV
Radiation	Shape	Rectangular
field	Maximum field	43 x 43cm @SID 100cm
	Minimum field	0 x 0cm
Radiation	Average brightness	160lx @SID 100cm
field indication	Accuracy	Less than 2% of SID
	Center of the field	Dark hair cross
	Light source	LED
	Period of indication	30 sec (timer-controlled)
Opening indication	SID	1, 1.5, 2m
	Field size indication	20,23,25,28,30,36,43cm
		8,9,10,11,12,14,17inch
Drive of leaves		Manual
Lead equivalent of leaves Shielding leaves(H and V-leaves)		3mm Pb eq.
	Middle leaves	2mm Pb eq.
Filtration	Inherent filtration	1.0 mm Al eq. / 75kV
	Additional filter	0.5mm Al. plate
Turning mechanism		+/- 45°
External dimensions		224(W) x 271(D) x 221(H)mm
Mass		6kg
Power supply		AC 12V : 50/60Hz : 100VA
		or DC24V 100VA

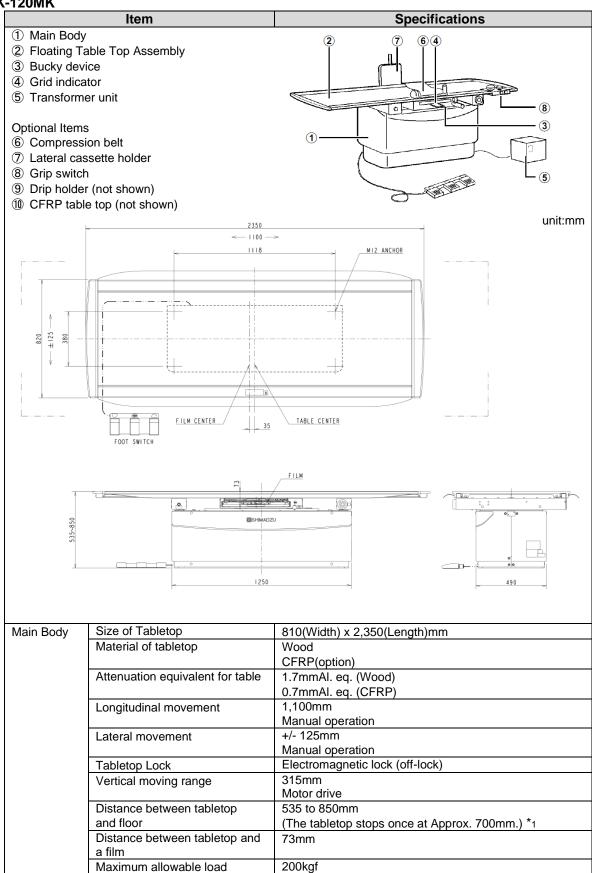
Item	Description	
Line marker	Used to align the center positions of the Bucky device and the equipment,	
	and to set the radiography position for long view radiography	
Detent	Fitted at the home position of the turning mechanism and serves to confirm	
	the home position when the collimator is turned.	
DAP adapter for VACUTEC	This is an adapter kit for DAP meter manufactured by VACUTEC.	
	DAP can be displayed on the console of DAP meter.	

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#### X-ray Radiography Table BK-120MK





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	Item	Spec	ifications
Bucky	Cassette fixing position	Center position	
Device	Bucky device moving stroke	380mm (+/- 190mm)	
	X-ray grid (Moving grid)	Dimensions	438mm x 479mm
		Intermediate material	Al
		Density, ratio Note) Select one of the listed Grids	40 lines/cm 10:1 100cm 40 lines/cm 10:1 150cm
		Mounting/removing grid	Possible
Installation Conditions	Required space for installation	5,000(W) x 3,500(L)mm (to combine with the X-ray)	support device)
	Mass	320kg	
Power Supply		Single-phase AC200, 220, 230, 240V 1.0kVA, 50/60Hz	

<sup>\*1</sup> When installing, the stop position can be adjusted within a height range of 600 to 700mm.

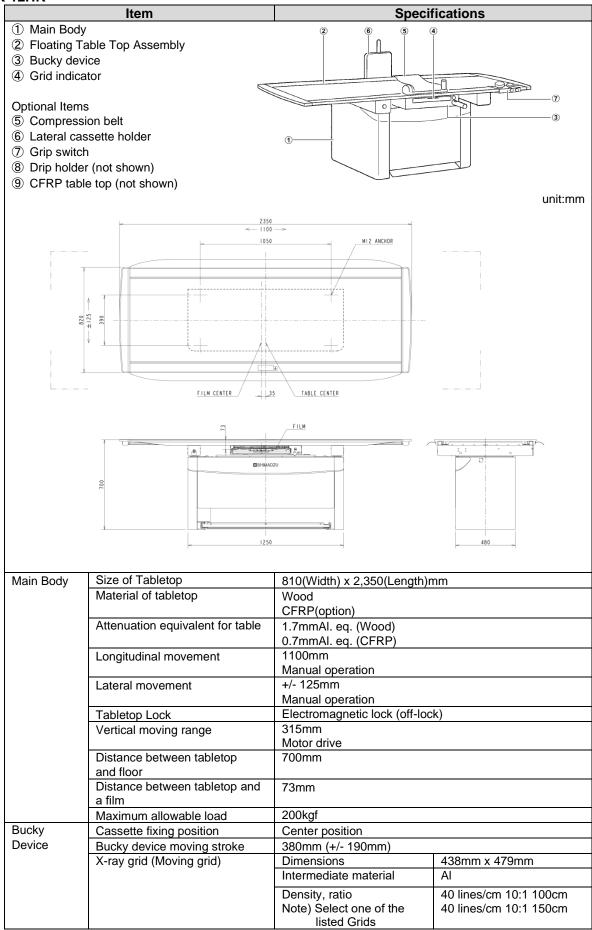
Item	Description	
Compression belt	This belt to be attached to the sides of the tabletop secures the patient's radiography region to the tabletop	
Lateral cassette holder	This holder to be attached to the side of the tabletop holds a cassette in lateral radiography.	
Grip switch	This switch to be attached to the side of the tabletop operates the floating tabletop.	
CFRP tabletop	This tabletop is made of CFRP (Carbon Fiber Reinforced Plastic).	
Hand grip	Equipped with tabletop side and grasped by patient so that the patient position keeps steady.	
Drip stand	Attached to the tabletop side and suspends the drip bins.	
FPD rotation tray	The FPD tray can be rotated 90 degree to change the orientation of FPD. (Portrait ← → Landscape) This option is only for 14 x 17 inch (35 x 43 cm) FPD.	

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#### BK-12HK



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Item		Specifications	
		Mounting/removing grid	Possible
Installation Conditions	Required space for installation	5,000(W) x 3,500(L)mm (to combine with the X-ray support device)	
	Mass	120kg	
	Power Supply	Single-phase AC100V, 0.1kVA, 50/60Hz	

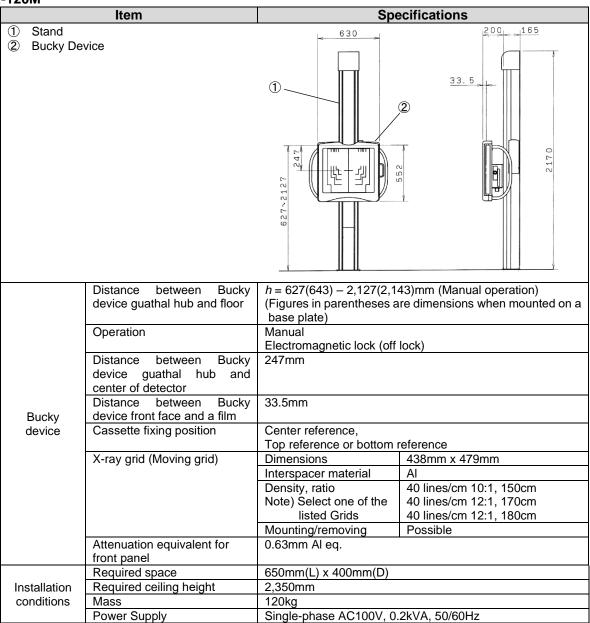
Item	Description	
Compression belt	This belt to be attached to the sides of the tabletop secures the patient's radiography region to the tabletop	
Lateral cassette holder	This holder to be attached to the side of the tabletop holds a cassette in lateral radiography.	
Grip switch	This switch to be attached to the side of the tabletop operates the floating tabletop.	
CFRP tabletop	This tabletop is made of CFRP (Carbon Fiber Reinforced Plastic).	
Hand grip	Equipped with tabletop side and grasped by patient so that the patient position keeps steady.	
Drip stand	Attached to the tabletop side and suspends the drip bins.	
FPD rotation tray	The FPD tray can be rotated 90 degree to change the orientation of FPD. (Portrait←→Landscape) This option is only for 14 x 17 inch (35 x 43 cm) FPD.	

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#### X-Ray Radiography Stand BR-120M



Options	
Item	Description
Overhead hand grip	For lateral chest exam to grip overhead, adjust the height by the
	position of gripping.
Cassette holder	Cassette unit is attached on bucky device and holds a film cassette.
Base plate	Base plate is installed when the equipment cannot be mounted in the standard holes.
Wall mounting option	Fix the top of column to wall. Use when the fixation to floor is difficult.
Side hand grips	For P-A chest exam. to grip both hands, a pair of left and right.
Compression belt	This belt fixes the radiography area of a patient on the Bucky device.



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**Operation Environment** 

Item	Specifications
Ambient temperature	10 to 40 degree C
Relative humidity	30 to 85% (non condensing)
Atmospheric pressure	800 to 1060hPa

**Power Supply** 

ltem	Specifications		
Phase	3-phase, single-phase	3-phase, single-phase	
Frequency	50/60Hz	50/60Hz	
Standard voltages	3-phase 200/220/240/380/400/415/440/480V Single-phase 200/220/230/240V		
Permitted voltage range	+/- 10% of standard voltage		
Supply capacity (Digital Radiography system is not included.)	80kW / 65kW type: 50kW type:	3-phase 120kVA Single-phase 8.5kVA 3-phase 80kVA Single-phase 8.5kVA or Single-phase 95kVA	

- Every value in this Product Data Sheet is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- \* Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.

LABEL Description: RADspeed Pro

Founded in 1875, Shimadzu corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu. and to contact your local office. please visit our Web site at



#### Shimadzu Corporation

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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

- Remarks:

  Every value in this document is a standard value, and it may vary a little from the actual at each site.

  The appearances and specifications are subject to change for reasons of improvement without notice.

  Items and components in the photos may include optional items. Please confirm with your sales representative for details.

  Certain configurations may not be available pending regulatory clearance.

  Contact your sales representative for information on specific configurations.

  Before operating this system, you should first thoroughly review the Instruction Manual.