

SHIMADZU

PRODUCT DATA

Radiography System

RADspeed fit



GENERAL

Radiography System RADspeed fit is an X-ray radiographic system suitable for radiography for each region of a patient in horizontal or vertical position.

This system can be used for the following radiography:

- Digital radiography using a flat panel detector
- General radiography using an X-ray film cassette or CR cassette

The TM and ® symbols are omitted in this document.

FEATURES

(1) Inverter Method

This device generates a low ripple high voltage that can produce X-rays with efficiency, using a high frequency inverter. Since it can terminate X-ray asynchronous with the power source, photo timer exposure in an extremely short time range can be operated in a highly accurate manner.

Furthermore, the adoption of a feedback control method for X-ray output enables it to generate a stable X-ray without being affected by the fluctuation of the power source voltage.

(2) X-ray High Voltage Generator Control Panel

The adoption of sheet keys for the X-ray high voltage generator control panel prevents dust and dirt from entering through the interstices of the keys, enhancing the reliability of key operations.

The X-ray high voltage generator control panel is also a compact wall-hanging type, which does not occupy much installation space.

(3) Switching Control Methods

The radiography condition methods include two methods, that is, a 3-control method where tube voltage (kV), tube current (mA) and exposure time (sec) are set, and a 2-control method where tube voltage (kV) and tube current time product (mAs) are set. In the 2-control method, the tube current (mA) is automatically set to its allowable maximum value and the exposure time (sec) is set to its minimum value.

(4) Anatomical Program Key (APR)

The suitable exposure conditions according to position or body thickness are preset.

Also, original exposure condition is easy to change.

(5) One-touch Guide Function

This function makes exposure preparation easier by displaying film size, grid setting, and exposure distance suitable for radiography technique and position on the X-ray high voltage generator control panel.

(6) Vertical, Longitudinal and Crosswise (Front/Rear) Travels of X-ray Tube Assembly

The X-ray tube assembly can be moved in the vertical, longitudinal and crosswise (front/rear) directions for smooth positioning as suits the radiograph to be taken.

(7) Heavy Duty 4-way floating table

The bucky table can support up to 320kg. Patient positioning is made easier with the extremely smooth moving tabletop.

(8) Bucky tracking function

Easily synchronize the travel of a bucky unit with the X-ray tube support position thanks to mechanical linkage. Oblique projection is also available by detach the linkage.

(9) 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.

(10) Dose Management

A calculated Dose Area Product(DAP) is displayed after exposure, using the actual exposure parameters. The measured exposure parameters and calculated DAP can be displayed on a Generator console.

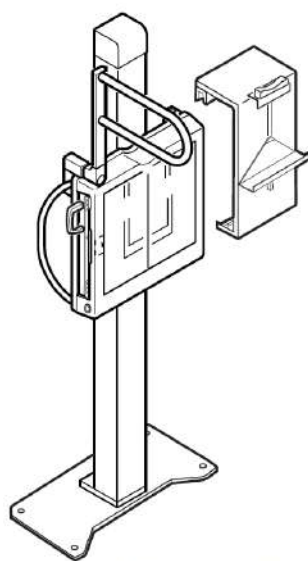
(11) Removable Grid

Removing the grid during radiography allows reducing the exposure dose level in pediatric and orthopedic applications.

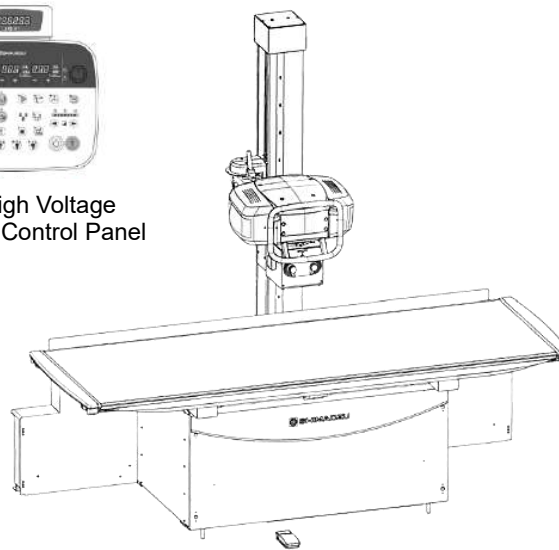
(12) AEC radiography (option)

When the AEC option is combined, the Automatic Exposure Control is available.

SYSTEM CONFIGURATION



X-ray Radiography Stand (option)


X-ray High Voltage
Generator Control Panel


Device Main frame

Component	Model Name
X-ray high voltage generator	D150L-FT32 (for 32kW type) D150L-FT56 (for 56kW type)
X-ray tube assembly *1	E7239X 0.6/1.2P13DK-85 0.6/1.2P18DE-85 1/2P13DK-85 1/2P18DK-85 0.6/1.2P164DK-85
X-ray collimator	R-20J
X-ray tube support and patient table *2	HR-150

Component	Model Name
X-ray radiography stand (option) *2	BR-120FIT

*1: One of the listed X-ray tubes is included.

*2: An applied part that contacts the patient's body

SPECIFICATIONS

X-ray High Voltage Generator 32 kW type D150L-FT32

Item		Description
Radiography technique		General radiography, Bucky radiography, DR radiography (option)
Setting range *1, *2, *3	Tube voltage	40 to 150 kV
	Tube current	10 to 500 mA
		Max. 6 positions can be selected from the following values for one focus. 500, 450, 400, 360, 320, 280, 250, 220, 200, 180, 160, 140, 125, 110, 100, 90, 80, 71, 63, 56, 50, 45, 40, 36, 32, 28, 25, 22, 20, 18, 16, 14, 12, 11, 10
	mAs	0.5 mAs to 500 mAs Select from the following 61 positions. 0.50, 0.56, 0.63, 0.71, 0.80, 0.90, 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12.5, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500
	Time	0.001 to 10 sec Select from the following 81 positions. Can be selected within mAs of 0.5 to 500. 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 120, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500, 560, 630, 710, 800, 900 ms, 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10 sec
Exposure technique		432 programs
Nominal output		32 kW (100 kV, 320 mA / 80 kV, 400 mA)
Short time ratings *2		150 kV 200 mA 125 kV 250 mA 100 kV 320 mA 80 kV 400 mA 60 kV 500 mA
The nominal maximum tube voltage and the maximum tube current that can be fed at the nominal maximum tube voltage*2		150 kV 200 mA
The nominal maximum tube current and the maximum tube voltage that can be fed at the nominal maximum tube current*2		60 kV 500 mA
Nominal shortest exposure time (using photo timer)		3 ms
Choice of focus		Large focus/small focus selectable
Power source *4, *5	Line Voltage	Single-phase, 200/220/230/240 V
	Line Frequency	50 Hz or 60 Hz
	Permissible line voltage Fluctuation rate (no load)/Impedance	200 V -5 % to +10 % 220 V +/-10 % 230 V +/-10 % 240 V +/-10 % 0.08 ohm
	Current rating of the Circuit Breaker	100 A
	Electric capacity	60 kVA
	Recommended transformer capacity	30 kVA or more

*1: The setting range differs according to the type of X-ray tube unit.

*2: Restrictions apply depending on the type of X-ray tube unit.

*3: The settable range depends on the X-ray tube unit installed on the equipment.

*4: The various conditions are as follows (conform to IEC-standards):

Tube voltage (within +/-10 %), Tube current (within +/-20 %)
mAs within +/- (10 % + 0.2 mAs), Time within +/- (10 % + 1 ms)

*5: Grounding must be provided in accordance with all applicable legal requirements for medically used electrical equipment

X-ray High Voltage Generator 56 kW type D150L-FT56

Item		Description	
Radiography technique		General radiography, Bucky radiography, DR radiography (option)	
Setting range for exposure *1, *2, *3	Tube voltage	40 to 150 kV	
	Tube current	10 to 630 mA	
		Max. 6 positions can be selected from the following values for one focus. 630, 560, 500, 450, 400, 360, 320, 280, 250, 220, 200, 180, 160, 140, 125, 110, 100, 90, 80, 71, 63, 56, 50, 45, 40, 36, 32, 28, 25, 22, 20, 18, 16, 14, 12, 11, 10	
	mAs	0.5 mAs to 500 mAs	
		Select from the following 61 positions. 0.50, 0.56, 0.63, 0.71, 0.80, 0.90, 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12.5, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500	
	Time	0.001 sec to 10 sec	
		Select from the following 81 positions. Can be selected within mAs of 0.5 to 500. 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 120, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500, 560, 630, 710, 800, 900 ms, 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10 sec	
Exposure technique		432 programs	
Nominal output		56 kW (100 kV, 560 mA)	
Short time ratings*2		150 kV 360 mA 125 kV 450 mA 100 kV 560 mA 80 kV 630 mA 60 kV 630 mA	
The nominal maximum tube voltage and the maximum tube current that can be fed at the nominal maximum tube voltage*2		150 kV 360 mA	
The nominal maximum tube current and the maximum tube voltage that can be fed at the nominal maximum tube current*2		100 kV 560 mA	
The minimum tube current time product		0.5 mAs	
The maximum tube current time product		500 mAs	
Nominal shortest exposure time (using photo timer)		3 msec	
Choice of focus		Large focus/small focus selectable	
Power source *4,*5	Line Voltage	Three-phase, 380/400/415/440/480 V	(Three-phase, 200/220/240 V)
	Line Frequency	50 Hz or 60 Hz	
	Permissible line voltage	380 V +/-10 %: 0.16 ohm 400 V +/-10 %: 0.17 ohm	200 V +/-10 % 220 V +/-10 %
	Fluctuation rate (no load)/impedance	415 V +/-10 %: 0.19 ohm 440 V +/-10 %: 0.21 ohm 480 V +/-10 %: 0.25 ohm	240 V +/-10 % 0.087 ohm
	Current rating of the Circuit Breaker	100 A	
	Electric capacity	90 kVA	
	Recommended transformer capacity	50 kVA or more	

*1: The setting range differs according to the type of X-ray tube unit.

*2: Restrictions apply depending on the type of X-ray tube unit, and FPD

*3: The settable range depends on the tube unit installed on the equipment.

*4: The various conditions are as follows (conform to IEC-standards):

Tube voltage (within +/-10 %), Tube current (within +/-20 %)

mAs within +/- (10 % + 0.2 mAs), Time within +/- (10 % + 1 ms)

*5: Grounding must be provided in accordance with all applicable legal requirements for medically used electrical equipment

Common specification

Item		Description
Exposure condition setting method (3-control method (kV, mA, sec))		Method where kV, mA, and sec are set as exposure conditions.
Exposure condition setting method (2-control method (kV, mAs))		Method where setting kV and mAs for an exposure condition automatically sets the sec and mA to the minimum exposure time and the maximum tube current respectively in accordance with the allowable load for X-ray tube.
Selectable techniques		General radiography, Horizontal radiography, Stand radiography
Number of connectable X-ray tubes		1 unit
Choice of focus		Large focus/small focus selectable
Key for selecting position		Head, Chest, Abdominal, Waist, Leg, Foot, Arm, Hand
Key for selecting direction		Frontal, Lateral, Oblique
Key for selecting body thickness		Baby, Child, Small, Medium, Large, Extra Large
Anatomical programs		Memory of 432 anatomical programs is available: 3 techniques x 8 positions x 3 directions x 6 body thicknesses = 432 programs Each program contains the following: - Exposure condition (kV, mAs, or kV, mA, sec) - Exposure method (manual exposure or photo timer exposure) - Exposure condition setting method (2-control method or 3-control method) - Photo timer photo pickup field selection - Photo timer film density setting
Dose Area Product display		Calculated Dose Area Product is displayed on the Generator console, using measured X-ray conditions and aperture size of the collimator. Measured Dose Area Product is displayed on the Generator console, using physical DAP meter (option). These DAP values are an alternative.
AEC exposure (option)		When combined with Shimadzu AEC detector (SPT-XD-A4A/-A1A/-A3B), the AEC Exposure is available.
Self-diagnosis function		In case of any failure in each function, error codes for the contents of the failure are displayed.
Cabinet	Dimensions	752(W) x 583(D) x 504(H) mm
	Weight	118 kg
Console	Dimensions	225(W) x 50(D) x 176(H) mm
	Weight	1.1 kg

Options

Item		Description
Handheld X-ray switch		Handheld switch for X-ray
Phototimer kit		AEC controller
Communication unit		Communication kit for DR system
Transformer Box		A transformer rated at 56 kW to be used when the power voltage is 3-phase, 200/220/240 VAC
	Dimensions	402(W) x 402(D) x 419(H) mm
	Weight	70 kg

X-ray Tube Assembly

	Item	Description
E7239X	Nominal X-ray tube Voltage	125 kV
	Max. anode heat content	100 kJ (140 kHU)
	Nominal focal spot	1 / 2 mm
	Target angle	16 degree
	Nominal Anode input power (0.1s)	22.5 / 47 kW(60Hz) 21 / 42.5 kW(50Hz)
	Minimum total Filtration	1.5 mm Al / 75 kV (including added filter)
	Permanent Filtration	0.9 mm Al / 75 kV
	Mass	16 kg
0.6/1.2P13DK-85	Nominal X-ray tube Voltage	150 kV
	Max. anode heat content	140 kJ (200 kHU)
	Nominal focal spot	0.6 / 1.2 mm
	Target angle	16 degree
	Nominal Anode input power (0.1s)	14 / 37.5 kW(60Hz) 12.5 / 34.5 kW(50Hz)
	Minimum total Filtration	1.7 mm Al / 75 kV (including added filter)
	Permanent Filtration	1.0 mm Al / 75 kV
	Mass	22.1 kg
0.6/1.2P18DE-85	Nominal X-ray tube Voltage	150 kV
	Max. anode heat content	140 kJ (200 kHU)
	Nominal focal spot	0.6 / 1.2 mm
	Target angle	12 degree
	Nominal Anode input power (0.1s)	21 / 53 kW(60Hz) 18 / 48 kW(50Hz)
	Minimum total Filtration	1.7 mm Al / 75 kV (including added filter)
	Permanent Filtration	1.0 mm Al / 75 kV
	Mass	22.5 kg
1/2P13DK-85	Nominal X-ray tube Voltage	150 kV
	Max. anode heat content	140 kJ (200 kHU)
	Nominal focal spot	1 / 2 mm
	Target angle	16 degree
	Nominal Anode input power (0.1s)	30 / 70 kW(60Hz) 27.5 / 64 kW(50Hz)
	Minimum total Filtration	1.7 mm Al / 75 kV (including added filter)
	Permanent Filtration	1.0 mm Al / 75 kV
	Mass	22.1 kg
1/2P18DK-85	Nominal X-ray tube Voltage	150 kV
	Max. anode heat content	140 kJ (200 kHU)
	Nominal focal spot	1 / 2 mm
	Target angle	12 degree
	Nominal Anode input power (0.1s)	39 / 75 kW(60Hz) 35 / 68.5 kW(50Hz)
	Minimum total Filtration	1.7 mm Al / 75 kV (including added filter)
	Permanent Filtration	1.0 mm Al / 75 kV
	Mass	22.1 kg
0.6/1.2P164DK-85	Nominal X-ray tube Voltage	150 kV
	Max. anode heat content	280 kJ (400 kHU)
	Nominal focal spot	0.6 / 1.2 mm
	Target angle	16 degree
	Nominal Anode input power (0.1s)	13.8 / 37.3 kW(60Hz) 12.7 / 34.3 kW(50Hz)
	Minimum total Filtration	1.7 mm Al / 75 kV (including added filter)
	Permanent Filtration	1.0 mm Al / 75 kV
	Mass	22.1 kg

X-ray Collimator R-20J

Item		Description
Applicable X-ray tube maximum service voltage		150 kVp
Irradiation field	Irradiation field shape	Rectangular
	Maximum irradiation field	430 mm x 430 mm (at SID 100 cm)
	Minimum irradiation field	0 mm x 0 mm, Fin overlap type
Light field	Average illumination degree	Over 160 lx
	Displacement from X-ray irradiation field	Within 2% of SID
	Center indication	Black cross indication
	Lamp device	LED
	Lighting time	30 seconds, automatic off timer
Opening degree indication	Indication SID (m)	1, 1.5, 2
	Indication dimensions (cm, inch in parentheses)	20 (8), 23 (9), 25 (10), 28 (11), 30 (12), 36 (14), 43 (17)
Leaf driving method		Manual
Pb equivalent of leaf		3 mm Pb (intermediate fin 2 mm Pb)
Filter (Inherent filtration)		1.0 mm Al equivalent at 70 kV
Filter (Added filter)*1		0.5 mm Al
Irradiation field rotation		Rotation around X-ray beam center axis +/-45 degree
Attachment method (focus - attachment face distance)		59 mm
Power source		Power supply received from X-ray high voltage generator

*1: Combination of X-ray tube assembly E7239X: Added filter is 0.6 mm Al filter.

Options

Item	Description
Line marker *2	Laser pointer
Detent Assembly	Click stopping unit at each 45 degree
DAP meter attachment *2*3	Attachment for the dose-area product meter to the front of the collimator

*2: Line marker cannot be combined with a DAP meter.

*3: Calculated DAP display function and physical DAP meter are alternative.

X-ray tube support and patient table HR-150
X-ray Tube Support

Item		Description
X-ray Tube Support	X-ray tube vertical movement	500 to 1,800 mm manual operation, electromagnetic brake lock
	X-ray tube longitudinal movement	1,835 mm manual operation, electromagnetic brake lock
	X-ray tube lateral movement	0 mm and 200 mm manual operation manual operation, No brake lock in the intermediate point.
	X-ray tube rotation around horizontal axis	CW : 140 degree, CCW : 180 degree manual, electromagnetic brake lock
	X-ray tube rotation around vertical axis	0 degree: Normal position CW 90 degree: Decubitus position CW 180 degree: Stretcher position manual, mechanical lock at 90 degree
Patient Table	Size of tabletop (width x length)	2,350 mm x 810 mm
	Distance between tabletop and floor	700 mm
	Tabletop moving distance	Longitudinal: +/- 550 mm, Lateral: +/- 125 mm
	Bucky device moving distance	440 mm
	Tube support joint	Detachable (Oblique exam capable)
	Maximum distance between X-ray focal spot and film surface	1,180 mm
	Distance between tabletop and film	80 mm
	Grid Note) Select one of the listed Grids.	10:1 40 lines/cm $f_0 = 100$ cm Al 10:1 40 lines/cm $f_0 = 150$ cm Al 8:1 52 lines/cm $f_0 = 100$ cm Al 8:1 52 lines/cm $f_0 = 150$ cm Al
	Grid removal availability	Grid removal available
	Cassette size applicable to the bucky device	Inch : max. 17 x 17 to min. 6 1/2 x 8 1/2
	Attenuation equivalent for table	1.7 mm Al or less
	Maximum allowable load	320 kg (Uniform load)
Power source		Power supply received from X-ray high voltage generator
Dimensions		2,350(W) x 1,277(D) x 2,042(H) mm
Weight		350 kg (w/ P-type X-ray tube) 336 kg (w/ E-type X-ray tube)

Options for Patient Table

Item	Description
Side cassette holder	This holder is an auxiliary tool which holds a cassette in lateral radiography.
Grip switch	This switch is attached on the side of the table top assembly to operate the floating table top.
Compression band	This belt is an auxiliary tool which fixes a radiography region of a patient on the table top.
Grip bar	Grip bar can be chosen from the long type and the short type. Equipped with table top side and grasped by patient so that the patient position keeps steady.
CFRP table top	Carbon filter reinforced plastics table top
SPT-XD-A1A	AEC exposure Detector (1 field pick-up)
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.

X-ray Radiography Stand BR-120FIT (option)

Item	Description
Distance between bucky device chin rest and floor	747 to 2,047 mm *1
Distance between bucky device and film	33.5 mm
Grid Note) Select one of the listed Grids.	12:1 40 lines/cm f ₀ = 170 cm Al 12:1 40 lines/cm f ₀ = 180 cm Al 10:1 40 lines/cm f ₀ = 150 cm Al 12:1 52 lines/cm f ₀ = 180 cm Al 12:1 52 lines/cm f ₀ = 150 cm Al
Grid removal availability	Grid removal available
Attenuation equivalent for front panel	1.2 mm Al or less
Cassette size applicable to the bucky device	Inch : max. 17 x 17 to min. 6 1/2 x 8 1/2
Power source	Power supply received from X-ray high voltage generator
Dimensions	630(W) x 367(D) x 2,084(H) mm
Weight	115 kg

*1: When the base plate (option) is used, the stroke will change according to the base plate height.

Options for BR-120FIT

Item	Description
Side hand grip	Side hand grip supports the attitude of a patient.
Overhead hand grip	Overhead hand grip supports the attitude of a patient in radiographic of patient body side.
Compression belt	Compression belt fixes the radiography area of a patient on the bucky device.
Cassette holder	Cassette unit is attached on bucky device and holds a film cassette.
Base plate	Base plate for Bucky stand
Wall mounting option	Wall mounting kit for Bucky stand
SPT-XD-A3B	AEC exposure Detector (3 field pick-up)
SPT-XD-A4A	AEC exposure Detector (4 field pick-up)
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.

Minimum installation space

Item	Description
Required space with BR-120FIT w/o Stretcher position	4,500mm(W) x 3,000mm(D)
Required space w/o BR-120FIT w/o Stretcher position	3,650mm(W) x 3,000mm(D)
Required ceiling height	2,200mm(H)

Environmental Conditions
Operation Environment

Item	Description
Atmosphere	No explosive or corrosive gases
Temperature	10 to 40 degree C (without DR option)
Relative humidity	30 % to 75 % (no condensation)
Atmospheric pressure	800 to 1060 hPa
Environment luminosity	150 to 500 lx
Ambient noise level	Under 70 dB

Transportation and Storage Environment

Item	Description
Temperature	-10 to 55 degree C
Humidity	30 to 70 % (no condensation)
Atmospheric pressure	700 to 1060 hPa

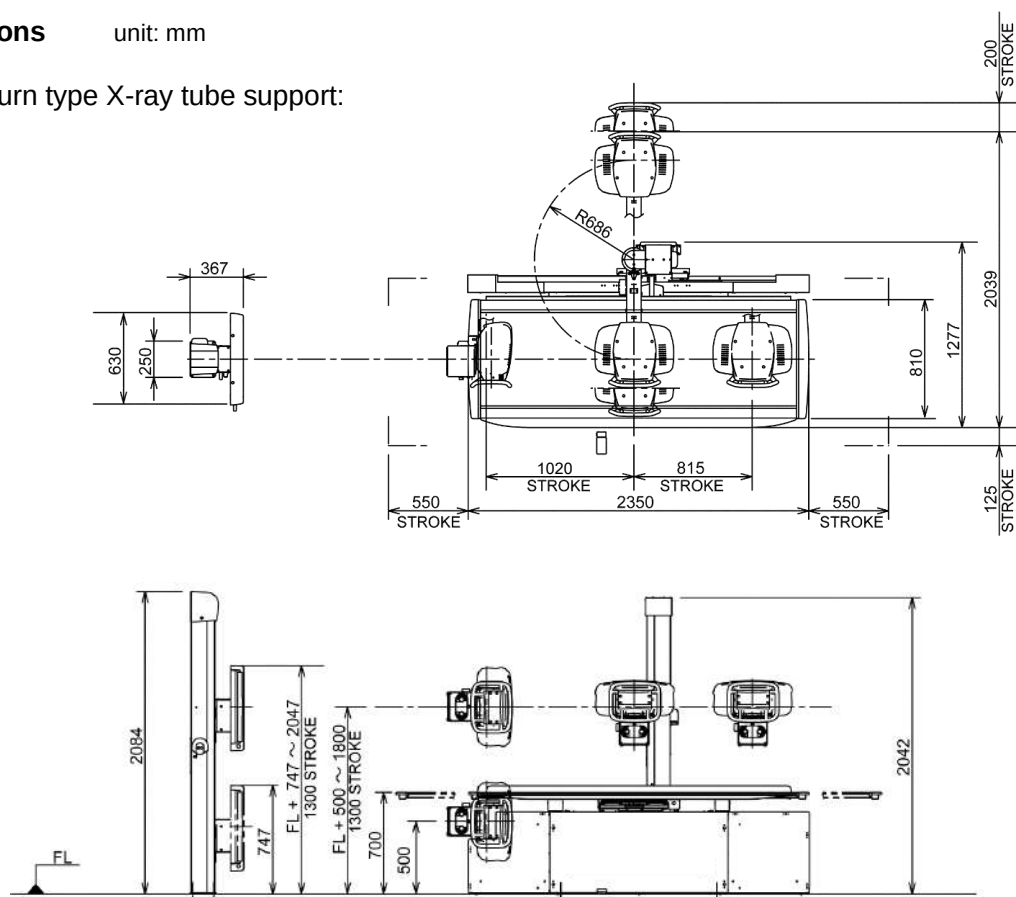
Power Supply

System	Phases	Voltage	Power Supply Transformer Capacity	Frequency
RADspeed fit (32 kW type)	Single phase	AC200, 220, 230, 240 V	30 kVA or greater	50 / 60 Hz
RADspeed fit (56 kW type)	3 phase*1	AC200, 220, 240 V AC380, 400, 415, 440, 480 V	50 kVA or greater	50 / 60 Hz

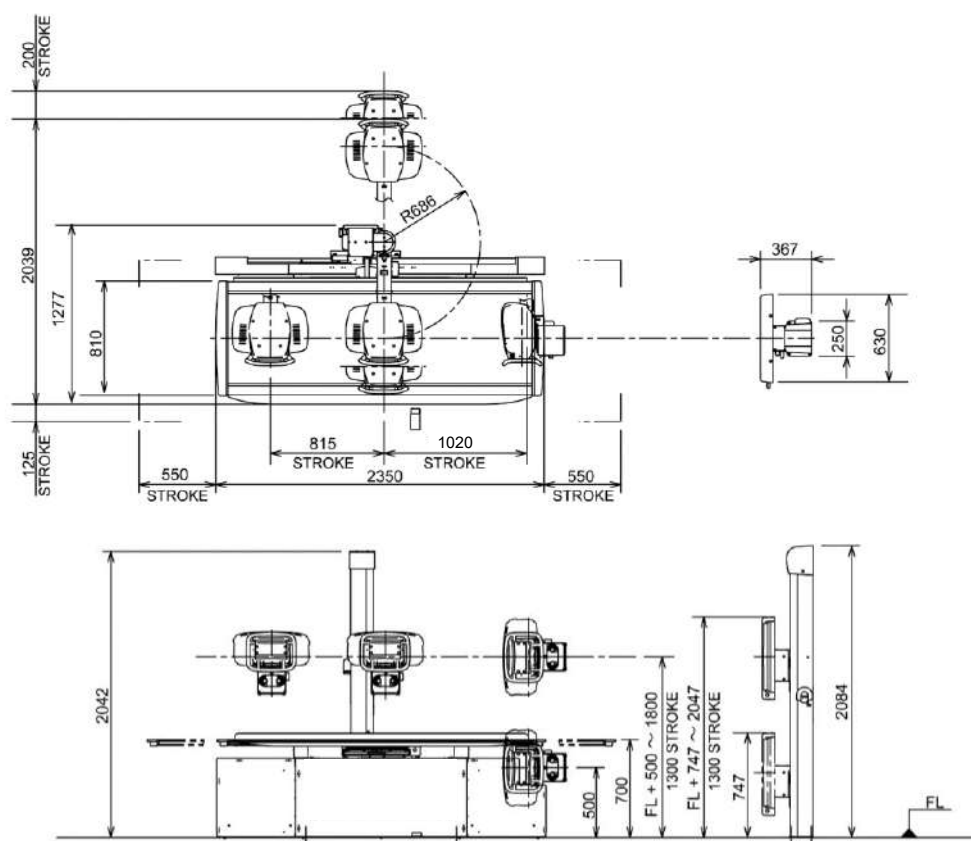
*1: When the power supply voltage is 200/220/240 V AC (3 phase), the trans box option is necessary.

Dimensions unit: mm

Left-turn type X-ray tube support:



Right-turn type X-ray tube support:



LABEL Description: Radiography System RADspeed fit

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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.