





90/15 R/F Electronic Tilting Table

Product Data

Movements

Tilting	Motorized, -15°/+90°
	Speed 3.2°/s @ 50 Hz; 3.9°/s @ 60 Hz
	Automatic stop at 0° (horizontal)
Longitudinal table top	Motorized, 1000 mm (600mm head side, 400mm feet side)
	Speed 31 mm/s @ 50 Hz, 37 mm/s @ 60 Hz
	Automatic centering
Transversal table top	Motorized, 200 mm (± 100 mm)
(on request)	Speed 65 mm/s
	Automatic centering
Longitudinal SFD / I.I. / Tube	Servo-assisted and manual, with electromagnetic brake
	Run-length 550 mm
Transversal SFD / I.I. / Tube	Manual, movement force < 40 N, with electromagnetic brake
	Run-length 220 mm
Vertical SFD / I.I. / Tube	Manual, movement force < 40 N, with electromagnetic brake
(compression)	Run-length 265 mm
SID – Source to Image Distance	670 ÷ 935 mm (might change depending on tube type)
SFD - Table top distance	195÷460 mm
SFD - Film distance	69 mm
SFD parking position	Out of X-ray field for undertable bucky exposure
Motorized movement control	Closed loop feedback, position and speed control

Table Top

Table Top	
Max patient weight	135 kg
Length	2020 mm
Width	700 mm
Height from ground	895 mm
Surface	Flat
Material	Plastic laminate
Filtration	0.8 mm Al @ 100 kVp, HVL = 2.7 mm Al
Focus to skin distance (under	405 mm
table x-ray source)	





Spot Film Device (SFD)

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Technology	Microprocessor control
Cassette size	From 18x24 cm to 35x35 cm
	From 8"x10" to 14"x14"
Film subdivision	1, 2, 3 on one in line;
	4, 6 on one in cross.
	See attached tables
Rapid sequence	Selectable
Fluoroscopy/exposure	0.7 ÷ 1.3 s
switching time	(depending on cassette size and division)
Delay between two exposures	0.4 s (average)
in rapid sequence	
Cassettes loading	Front (left) side
Cassettes tray	Autocentering
AEC measuring chamber	Predisposed for installation of solid state or ion chambers
Grid	Vibrating, synchronized to x-ray start
	Ratio: 10:1
	Focalization: 75 cm
	Lines/cm: 47
	Size: 360 x 380 mm
Internal collimation	Electronic with near-film shutters

Under Table Electronic Collimator

Beam Limitation	Square and rectangular
Number of limitation shutters	6 pairs of shutters, including near-focus
Limitation shutters material	Fe + Pb
Operation	Fully automatic with SID compensation, microprocessor con-
	trolled
"Hold" function	The position of diaphragms in fluoro mode can be maintained
	when the unit is switched into exposure
Minimum internal filtration	0.3 mm Al eq
Leakage radiation	≤45 mR/hr @ 150 kVp, 350 W
Min. size of x-ray field @ SID =	< 1 cm ²
1 m	





Under Table Potter Bucky (Option)

Cassettes size	From 13x18 cm to 35x43 cm
	(up to 43x43 cm for portable digital detectors)
Longitudinal movement	Manual, locking by electromagnetic brake
	 movement force <20 N with table in horizontal position
	 movement force <30 N with table in vertical position
Range of movement	910 mm
Cassette tray	Manual loading, auto-centering
Size sensing cassette tray	Option
X-ray beam to film centering	With spot light on manual collimator (on column tubestand)
AEC measuring chamber	Predisposed for installation of solid state or ion chambers
Film to table top distance	84 mm
Grid	Vibrating, synchronized to x-ray start
	Ratio: 10:1
	Focalization: 120 cm
	Lines/cm: 34
Grid start signal	Can be set to: 220 Vac, 120 Vac, 24 Vdc

Floor Column Tubestand (Option)

operori,
2400 mm
Manual, with electromagnetic brakes
Run-length 1710 mm standard, 2710 mm with extension rail
Manual, with electromagnetic brakes
Run-length 240 mm with center lock
Manual, with electromagnetic brakes
Run-length 1470 mm
430 ÷ 1900 mm
1120 mm
Manual, with mechanical stops every 90°
± 90°
Manual with electromagnetic brakes
Range ± 180°
Angle indication with goniometer
Undertable Bucky;
Off-table;
Oblique;
Lateral (with optional accessory);
On vertical chest stand (option)
With pushbuttons on tube arm support
The pushbuttons have signal lamps
With light marker





Over Table Manual Collimator (on Column)

Beam Limitation	Square and rectangular
Number of limitation shutters	4 pairs of shutters, including near-focus
Limitation shutters material	Fe + Pb
Operation	Manual
Field coverage	43 x 43 cm @ SID = 1 m
Total collimator filtration	≥ 0.5 mm Al eq @ 100 kV, HVL = 2.7 mm Al
Leakage radiation	≤45mR/hr @ 150 kVp, 350 W
Light source	Halogen bulb,
	24 V dc, 100 W

Functions

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Operating mode	- Fluoroscopy
	- Radiography
	– Digital
Digital imaging	The unit is predisposed for connection to digital acquisition unit DIVA-D.
Fast bolus chasing	When this function is selected, the movements of tabletop (head direction)
	and SFD (foot direction) are combined to help chasing the contrast bolus in
	rapid transit procedures.
Movements locks	With electromagnetic brakes. All brakes are automatically activated when
	the prep switch is pressed.
Compressor	The compressor is automatically moved into the exposure area when a
	cross subdivision is selected. A manual modality can also be chosen to
	override the automatic function

User Interface

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Display	Two lines by twenty characters alphanumeric display with indication of the	
	following information:	
	– Tilt angle	
	 Source to Image Distance (SID) 	
	 Cassette size 	
	 Cassette division 	
	 Number of exposures remaining 	
	Operating modes	
	 Warning / error /failure messages 	
SFD Control key-	A flat and waterproof control keyboard on the SFD allows control of the	
board	following functions:	
	 Film division program 	
	 Rapid sequence 	
	Cassette insertion/ejection	
	Room light on/off switch	
	 Fast bolus chasing 	
	 Collimator functions 	





	Compressor functions
	 Image intensifier and TV chain functions
	 Automatic/manual KV selection
Joysticks on SFD	Joysticks on the SFD control panel activate:
control panel	 the motorized and servo-assisted movements
	 exposure and fluoroscopy switch
Tableside keypad	An additional flat and waterproof keypad is mounted on the front cover of
	the table to allow convenient operation of the movements in all positions
	of the table. The available controls are:
	– Tabletop movement (4 ways)
	– Tilting (vertical – Trendelenburg)

Safety Features

	A dedicated microprocessor continuously checks the operation
	of the equipment to inhibit unwanted movements in case of
	single component failure.
Movements safeties	All movements have "dead man" operation
Anticollision safeties	The movements are software controlled to prevent collision of
	any part of the equipment to floor, ceiling and walls. Room di-
	mensions can be set during the installation.
Self test	The unit performs a complete test at power on

Accessories

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2 hand grips	Standard, continuous adjustment
Shoulder support	Standard, continuous adjustment
Foot rest	Standard, with stops every 100 mm
Compression band	Option, continuous adjustment
Gynaecological leg support	Option, continuous adjustment
Lateral cassette support	Option (to be used only with optional tubestand)

Product data Vision – Rev. 13





Electrical Features

Standard power supply voltage	 Three phase 380-400 Vac ± 10% (standard) 208/220/415/480 Vac ± 10% with optional external autotransformer (on request) 				
Frequency	50/60 Hz				
Absorbed current	6.5A @ 208 Vac ±10%				
Absorbed power	2.5 kVA				
Equipment type and classification according to IEC 60601-1	Class I with type B applied parts				
Degree of protection according to IEC 60529	IP00				
Operating mode	Continuous				

Mechanical Features

Weight	1030 kg
Serial changer	Over table
X-ray tube and collimator	Under table

Environmental Conditions

Operating conditions	Temperature: Humidity:	+10° to +40° Celsius 30% to 75% non condensing
	Pressure:	700 to 1060 hPa
Conditions for transport and	Temperature:	-20° to +70° Celsius
storage	Humidity:	up to 95 % non condensing
	Pressure:	> 630 hPa

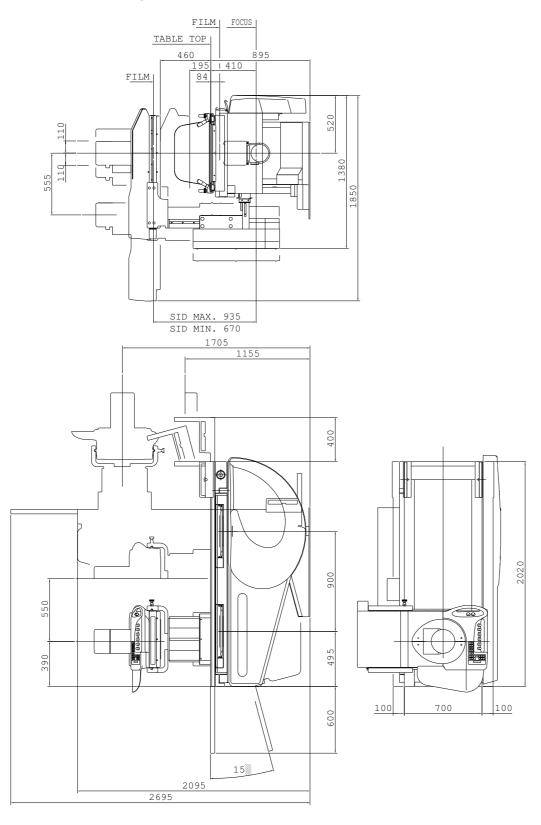
Standards and Regulations

FD/A	FDA approval grants the product compliance to USA Standards.
	NOT for version with column tubestand





Dimensions (all quotes in mm)







Cassette division for cm size cassettes

	 SIZE COSSECC			-
18 x 24 cm	9x24		9x12	
24 x 18 cm	12x18			
24 x 30 cm	12x30			
30 x 24 cm	15x24	10x24	15x12	10x12
30 x 30 cm	15x30	10x30		
35 x 35 cm	17x35	12x35		





Cassette division for inch size cassettes

Odssette divis	<u> </u>	DIZE (40)			
8" x 10"		4x10	2.5x10	4x5	2.5x5
10" x 8"		5x8			
9.5" x 9.5"		4.7x9.5	3.2x9.5	4.7x4.7	3.2x4.7
10" x 12"		5x12			
12" x 10"		6x10	4x10		
14" x 14"		7x14	5x14		

Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

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