

SPECIFICATIONS OF 100mA X-RAY MACHINE (HIGH FREQUENCY MACHINE)

High Frequency X-Ray machine suitable for general Radiography.

X- RAY GENERATOR:

- High Frequency X-Ray generator having Frequency of 20 KHz or more suitable for Radiography Should be provided.
- Power output of generator should be 6 KW or more
- Radiography KV range should be 40 to 100 KV or more
- mA range (Rad.) : 100mA or more
- Exposure time (Rad.): 1ms to 3 sec. with maximum numbers of steps.
- The techniques selector switch should be provided for selecting table radiography/bucky

Control :

A very compact, Soft Touch Control Panel having following functions & indications should be provided. The panel can be supplied in floor or wall mount with Spill Proof design Following features should be available on the control panel

- Machine ON/OFF switch
- Digital Display of KV & mAs.
- KV & mAs increase and decrease switches
- Tube focal spot selection switch.
- Ready and x-ray on switch with indicators.
- Bucky Selection switch.
- Self diagnostic Programme with Indicators for Earth fault error, KV error, filament error & Tube's Thermal Overload.
- Anatomical Programming Radiography should be provided in which KV and Mas are automatically selected depending upon the physique of the patient and part of the body to be X-rayed
- A dual action hand switch retractable cord should be provided of Radiation Protection of Operator

X-RAY TUBE:

- X-ray tube should be one No stationary anode of BEL/Toshiba/Imported X-ray having focal sport 2.8 mm or less.
- One pair of 6 meter H.V. Cable
- One no manual collimator with aluminium filter & for adjustment of exposure area

COLUMN STAND:

- It should have floor to ceiling stand with vertical counter balanced travel
- It should have 360 deg. Rotation
- It should be provided one chest stand with machine

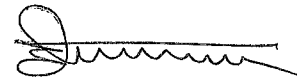
Table

- Five position manual tilt table having bucky grid ratio of 6:1 with 60 lines per inches should be provided.
- The bucky tray should accept cassette up to 14"x17"size

Other Requirements:

- The company should be ISO Certified and machine European CE/USFDA certified
- The unit should be approved by AERB
- The company should have a Local Service Center
- The company should have proven track record in Govt. Sector
- Three years guarantee from the date of installation
- Rates of CMC including X-Ray Tube for seven years to be submitted.
- Demo of machine May be called if required.

The company should provide layout plan and QE test report for registration from AERB.



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