

TECHNICAL SPECIFICATIONS 300MA X-RAY MACHINE

X-RAY MACHINE	300mA. 125 KVP Full Wave Solid State Silicon Rectified X-ray Generator for Radiography suitable for single Tube Operation as per IS:7620 with latest amendments.
TIMER	The exposure timer should be digital & from 0.02 sec to 5 sec.
CONTROL	Consisting of On & Off Switches, with Voltmeter, MA meter, Quick trip-overload circuit breaker (Automatic safety system to block unwanted exposure factors beyond Tube Rating), Voltage Compensator, Major & Minor KV selector, Tube overload indicator provided, Space charge compensator, technique selector. Digital Display of KVP, & mAs, Anode braking Device. Electronic overload for protection of tube H.V. Cables & H.T. Tank. Ready & X-Ray Switch on Control.
Static balancer	30 KVA capable of converting 3-phase in range 365-400 VAC with 0.2 ohms resistance at 50-60Hz to single phase 230 VAC/50Hz
HV TRANSFORMER	Compact Heavy Duty Transformer comprising HV Silicon Rectifiers, HT Transformer, Filament Transformer, bushings all immersed in oil.
ACCESSORIES	Hand Switch with Flexible long cord enables the operator to keep away from the Radiation area during exposure. - Aluminum Filter. - Light Beam Diaphragm.
POWER SUPPLY REQUIREMENT	440V \pm 10% V AC, 50 Hz, Three Phase -
TUBE UNIT	One No. 20/40 Rotating Anode Tube (BEL / TOSHIBA or equivalent) with Dual Focus (Large & Small).
HV CABLE	One Pair of 10 meter High Voltage Cables : Sleevings - Straight.
STAND	Floor to Ceiling Stand & with Counter Balanced Tube Head (Rotatable+180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements. It should have all necessary locks. The column should be light in weight. Protection for the rope failure should be provided with the column stand.
TABLE	5 Position Table Hand tilt; 15 Degree trendelenburg to vertical, Motorised Bucky consisting of 8:1, 103 lines/inch Imported Grid Size 17 ^{1/4} " X 18 ^{7/8} "; Stainless Steel Cassette Tray; Compression Band and Foot Rest.

VERTICAL BUCKY	Vertical Bucky Stand with moving Grid of Ratio 8:1, 103 lines/inch. The Bucky moves up & down & are equipped with stainless steel cassette. This stand is floor-mounted type & can accommodate cassettes up to 14" X 17".
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TECHNICAL SPECIFICATIONS 500MA X-RAY MACHINE WITH MOTORISED TABLE

X-RAY MACHINE	500mA. 125 KVP Full Wave solid State Silicon Rectified X-ray Generator for Radiography suitable for single tube operation as per IS:7620 with latest amendments.
TIMER (RAD.)	The exposure timer should be digital & from 0.02 sec to 5 sec.
CONTROL	Consisting of on and off switches, with Voltmeter, mA meter, quick trip-overload circuit breaker (automatic safety system to block unwanted exposure factors beyond tube rating), Voltage compensator, major and minor KV selector, Tube overload indicator provided, space charge compensator, technic selector. Digital Display of active KVP, & mAs, Anode braking Device. Electronic overload for protection of tube H.V. Cables & H.T. Tank. Ready & X-Ray Switch on Control.
Static balancer	50 KVA, 3-phase to 1-phase reduction at 50 Hz. with maximum allowed resistance of 0.25 ohms in 415 volt line.
HV TRANSFORMER	Compact Heavy Duty Transformer comprising HV Silicon Rectifiers, HT Transformer, Filament Transformer, Bushings all immersed in high dielectric strength transformer oil.
ACCESSORIES	Hand Switch with Flexible long cord enables the operator to keep away from the Radiation area during exposure. - Aluminum Filter. - Light Beam Diaphragm.
POWER SUPPLY REQUIREMENT	440V AC, 50 Hz, Three Phase - Max. Allowable line Regulation \pm 10%.
TUBE UNIT	One No. 20/40 Rotating Anode X-Ray Tube Unit (BEL / TOSHIBA or equivalent) with dual focus (large & small focus).
HV CABLE	One Pair of 10 meter High Voltage Cables : Sleeveings - Straight.

STAND	<p>Floor to Ceiling Stand & with Counter Balanced Tube head (Rotatable \pm 180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements.</p> <p>It should have all necessary locks.</p> <p>The column should be light in weight.</p> <p>Protection for the rope failure should be provided with the column stand.</p>
TABLE	<p>Motorized Table having Motorized Bucky & Spot Film Device capable of doing all routine Spot Filming (4 on 1, 2 on 1, 1 on 1) for use with 8" X 10", 10" X 12", 14" X 14" cassettes. Grid Size 15" X 15", Ratio 6:1, 103 lines per inch. Lead glass and fluoroscopic Bucky consists Grid of size 17^{1/4}" X 18^{7/8}" ration 8:1, 103 Lines/inch. Grid movements (oscillations) are Motor and CAM operated; Stainless steel cassette tray; compression band, handgrips and Footrest, footstep. In case of power failure, mechanical back tilting facility must be available</p>
VERTICAL BUCKY	<p>Vertical Bucky Stand with moving Grid of Ration 8:1, 103 lines. The Bucky moves up & down & are equipped with a stainless steel cassette. This stand is floor-mounted type & can accommodate cassettes up to 14" X 17".</p>

Unit should be approved by AERB (Atomic Energy Regulatory Board) for Radiation Safety.

Unit should be approved by B.I.S. (Bureau of Indian Standards) for Mechanical & Electrical Safety.