



MERIDIAN Medical Systems

Meridian Paragon
TRUE-20 MOBILE X-RAY UNIT





MERIDIAN Medical Systems

MAIN CHARACTERISTICS:

Motorized Unit:

Speed: Up to 5 km/h, with Pressure Sensitive Moving System (Patented)
Two Independent Motors one for each wheel (Forward and Backward movements)
Excellent mobility with large rear Wheels for easy transportation, even over small obstacles.
Driving up to a 5° Slope (8.8%)
Anti-Collision System (Frontal and Lateral)
Easy access to any elevator, hallway, doors and patient bedside
Quick and sturdy Breaking Control System, when the Operator releases the Handle
Emergency Stop push Button, clearly accessible.

Positioning:

- Counterbalanced Tube-arm
- Electromagnetic breaks that can be released from the Collimator and Front Handle
- Tube-stand Column Rotation: +/- 315°
- Tube Rotation (around the Tube-arm Axis): +/- 180°
- Tube Rotation (around the Tube-head Axis): + 90° / - 30°
- Horizontal Tube Travel (Telescopic Arm): 550 mm. (21.7"):
 - Max extension: 1,250 mm. (49.2")
 - Min extension: 700 mm. (27.6")
- Vertical Tube Travel, with Standard Column of 1,980 mm. (77.9"):
 - Vertical Tube Travel: 1,470 mm. (57.8"),
 - Max SID 2,020 mm. (79.5")
 - Min SID 550 mm. (21.7")
- Vertical Tube Travel: with Short Column (Optional) of 1,850 mm. (77.9")
 - Vertical Tube Travel: 1,340 mm. (52.8")
 - Max SID 2,020 mm. (79.5")
 - Min SID 550 mm. (21.7")

COLLIMATOR:

- Manual Collimator with X-ray Covers and area Light Indication
- Possibility of turn the light on from both the Collimator and the Front Panel
- Timer and meter

X-RAY GENERATOR:

Specifications:

- Battery Assisted High-frequency X-ray Generator
- Microprocessor Controlled
- Auto-diagnostic System for easy-maintenance.
- Tube overload protection and continuous monitoring of the remaining Tube H.U.
- Power: 20 kW (According to IEC)
- KVp Range: from 40 KVp to 150 KVp, in 1 KVp Steps
- mA range: from 10 to 320 mA, in Renard scale
- Number of Stations: 18 (10, 12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320 mA)
- mAs Range: from 0.1 to 500 mAs
- Time Exposure Range: from 1 ms. to 10 s. (40 Time stations, in Renard Scale)
- Two steps Hand-Switch for Preparation and Exposure
- Audio and Light Indication for X-ray Exposure



MERIDIAN Medical Systems

Operation:

- Line requirement: Single Phase 100 or 230 VAC 50/60 Hz. $\pm 10\%$
- Operation independent from the mains supply
- Independent batteries for the X-ray Generator and the Motorization (with independent indicators)
- Batteries specifications:
 - Lead-acid Maintenance-free
 - Capacity: 15 Amp-h (generator), 9 Amp hr (motorization)
 - Storage Capacity: 120,000 mAs @ 100 kVp (generator)
 - Maximum charge time: 10 hours (generator), 6 hours (motorization)
 - Generator Batteries provide full operation for more than 200 exposures at 80 kVp, 150 mA and 0.5 sec, with 30 sec. between exposures

X-RAY TUBE:

- Maximum KVp: 150 kVp.
- Rotatory Anode
- Dual focal Spots: 0.7-1.3 mm.
- Power Rating:
 - Small focal Spot: 17.0 kW (50/60 Hz.)
 - Large focal Spot: 40.0 kW (50/60 Hz.)
- Target Angle: 16°
- Anode Heat Storage Capability 300 KHU
- Housing Heat Storage Capability 1,250 KHU
- Low Speed Rotor drives 3,000 r.p.m.

HIGH TENSION CABLES:

- Two Ultra Flexible High Tension Cables 75 kVp.

DIMENSIONS AND WEIGHT:

Dimensions:

- Parking Position:
 - Height: 1,980 mm
 - Width: 670 mm
 - Length: 1360 mm
- Telescopic Arm in Maximum Height and Fully extended:
 - Height: 2,125 mm
 - Width: 670 mm
 - Length: 2,555 mm

Weight:

- Weight: 575 Kg.

MOBILE OPTIONS:

OPTION 1:

Infrared Remote Control for Preparation/Exposure

OPTION 2:

Dose/Area Meter

OPTION 3:

Change to Short Column 1,850 mm

OPTION 4:

Change to X-ray Tube with dual focal Spots 0.6-1.2 mm. and 12° target Angle

OPTION 5:

Sensor Holder with integrated Grid (Lines/In/Ratio determined by Digital Receptor Type)