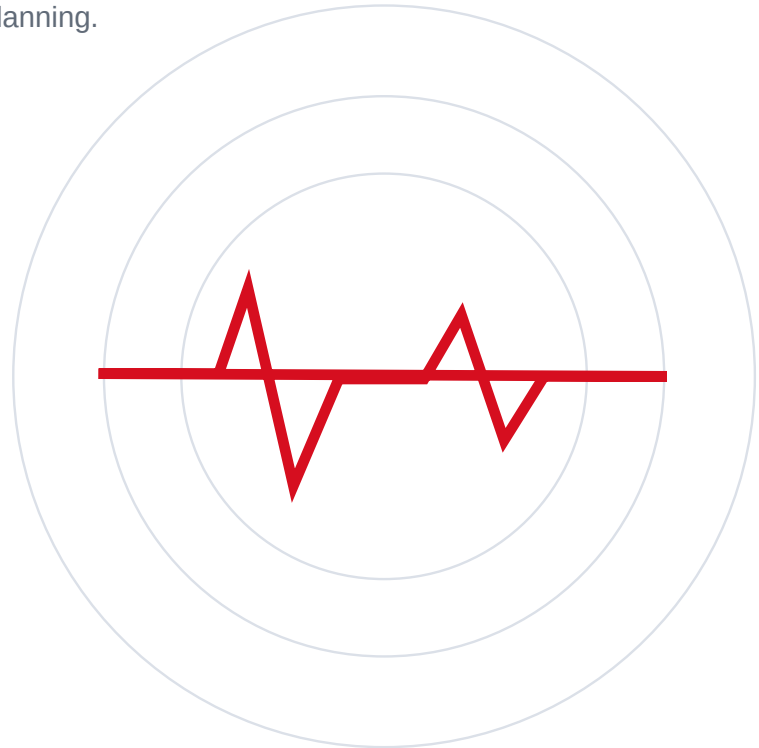
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2026 / AURA SURGICARE

MEDICAL EQUIPMENT

Professional Reference Catalogue

A structured technical reference for healthcare equipment categories and procurement planning.



01 / TECHNICAL REFERENCE

Operating Room / Laboratory / Hospital Equipment

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Catalogue Overview

TECHNICAL REFERENCE / 2026

Built for easier navigation

Healthcare and hospital equipment organized by department, application and technical specification.

Product information

Specifications are reference information and can vary by manufacturer, model and supply configuration.

Enquiries and availability

Contact AURA Surgicare for product sourcing, configuration details and availability.

SOURCE AND PRODUCT INFORMATION

Reference specifications were adapted from an RMS medical equipment catalogue. AURA does not claim authorship, certification, or manufacturing of third-party products.

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INTRODUCTION

In alignment with our ongoing efforts to streamline the acquisition of medical equipment through various Memoranda of Understanding (MOUs), this catalogue is designed to present a comprehensive range of technical specifications for both procured and planned medical equipment.

Our goal is to ensure that healthcare facilities have access to the most accurate and up-to-date information, facilitating informed decisions and efficient procurement processes. This catalogue covers a wide array of medical equipment, reflecting the latest advancements in technology and best practices.

Please note that the specifications provided are subject to continuous updates to incorporate new technological advancements and enhancements in medical knowledge. We are committed to maintaining the highest standards of quality and precision in our equipment offerings to support the evolving needs of healthcare providers.

Please note that the equipment are classified according to the hospital departments.

N.B: This table lists the basic technical specifications for each piece of equipment. Specifications may vary based on manufacturer and model.

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OPERATING ROOM EQUIPMENT

EQUIPMENT	TECHNICAL SPECIFICATION	BRAND & MODELS
Mobile Operating Lights	**Illumination:** • **Intensity:** 80,000 to 160,000 lux (adjustable) • **Light Field Diameter:** 15-30 cm at a distance of 1 meter • **Color Temperature:** 3,800 K to 5,000 K (adjustable) • **Color Rendering Index (CRI):** >90 **Light Source:** • **Type:** LED • **Lifespan:** 50,000 hours or more • **Number of LEDs:** Typically 30 to 100, depending on the model **Adjustability:** • **Height Adjustment Range:** 1.0 to 2.5 meters • **Arm Reach:** 1.5 to 2.0 meters • **Rotation:** 360 degrees **Power Supply:** • **Voltage:** 100-240 V, 50/60 Hz • **Power Consumption:** 50-200 W **Battery Backup:** • **Type:** Rechargeable Li-ion battery • **Backup Duration:** 2 to 6 hours (depending on usage) • **Charging Time:** 4 to 8 hours **Control Panel:** • **Type:** Digital/Touchscreen • **Functions:** Intensity adjustment, color temperature adjustment, on/off switch, battery status indicator **Physical Characteristics:** • **Base:** Mobile with castor wheels (lockable) • **Weight:** 50 to 100 kg (depending on the model) • **Material:** Stainless steel and aluminum for durability and ease of cleaning	

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	Environmental Conditions: • **Operating Temperature:** 10°C to 40°C • **Storage Temperature:** -20°C to 60°C • **Humidity:** Up to 95% RH non-condensing **Certifications and Standards:** • **Compliance:** IEC 60601-1 (Medical Electrical Equipment) • **Safety Standards:** IEC 60601-2-41 (Requirements for surgical luminaires and luminaires for diagnosis) **Additional Features:** • **5 Sterilizable Handle:** Removable and autoclave-safe • **Focus Adjustment:** Manual or motorized • **Shadow Dilution:** Multi-lens array for minimized shadows • **Optional Accessories:** Camera system integration, wall mount kit, and remote control	
Fixed Operating Lights	**Illumination** • Light Intensity: 40,000 to 160,000 Lux (adjustable) • Color Temperature: 3,800 to 5,000 Kelvin (adjustable) • Color Rendering Index (CRI): ≥ 95 • R9 Value: ≥ 90 for accurate red color rendering **Light Source** • Type: LED • Lifespan: ≥ 50,000 hours • Number of LEDs: 80 - 120 per light head **Power Supply** • Voltage: 100-240V AC, 50/60Hz • Power Consumption: 80 - 150 Watts **Control Features** • Dimming Range: 5% to 100% • Control Method: Wall-mounted control panel, remote control, or touch panel • Memory Function: Stores preferred settings for quick access **Light Field** • Diameter: 150 - 300 mm (adjustable) • Depth of Illumination: ≥ 1,000 mm	

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	Mechanical Features • Arm Length: 1,500 - 2,000 mm (adjustable) • Rotation: 360° for full flexibility • Vertical Adjustment: 1,000 - 1,500 mm • Weight: 40 - 60 kg **Sterility and Hygiene** • 5 Additional Sterilizable Handles. • Sealed Light Head: To prevent dust and contamination • Smooth Surface: Easy to clean and disinfect **Additional Features** • Endoscopy Mode: Reduced light intensity for endoscopic procedures • Battery Backup: ≥ 4 hours in case of power failure • Camera Integration: Optional HD camera for recording and monitoring • Shadow Reduction: Multiple light sources to minimise shadows • Heat Management: Efficient heat dissipation to maintain a cool environment **Compliance and Standards** • Certifications: CE, FDA, ISO 13485 • Electrical Safety: IEC 60601-1 • Electromagnetic Compatibility: IEC 60601-1-2 **Installation Requirements** • Mounting: Ceiling-mounted with reinforced ceiling structure • Ceiling Height: Suitable for ceiling heights of 2.5 to 3.5 meters	

Operating Tables	**1. General Specifications**
	• **Table Top Material:** Radiolucent for X-ray compatibility, high-density polyurethane, or carbon fiber.
	• **Table Top Sections:** Divisible into multiple sections (head, back, seat, leg).
	• **Weight Capacity:** 250-500 kg (550-1100 lbs) depending on the model.
	• **Dimensions:**
	  • Length: 1800-2100 mm
	  • Width: 500-600 mm
	  • Height Adjustment Range: 600-1100 mm	

2. Adjustability

- **Height Adjustment:** Hydraulic or electric motor-driven.
- **Trendelenburg and Reverse Trendelenburg:** ±25° to ±45°
- **Lateral Tilt:** ±15° to ±25°
- **Back Section Adjustment:** 0° to 90° upwards, 0° to -40° downwards
- **Leg Section Adjustment:** 0° to 90° downwards, removable or detachable sections.
- **Head Section Adjustment:** -90° to +30°

3. Movement and Mobility

- **Base Mobility:** Lockable swivel castors for easy movement.
- **Braking System:** Electro-hydraulic brakes for stability during surgery.
- **Column Type:** Fixed or mobile column options.

4. Controls

- **Control Type:** Remote control with wired or wireless options, foot pedal control.
- **Memory Function:** Pre-set positions for common surgical procedures.
- **Safety Features:** Emergency stop, manual override in case of power failure.

5. Accessories and Attachments

- **Side Rails:** Stainless steel for attaching accessories.
- **Anaesthesia Frame:** Height adjustable.
- **Armboards:** Adjustable and detachable.
- **Leg Holders:** Adjustable and removable, lithotomy leg rests.
- **Head Rest:** Adjustable for various surgical positions.
- **Patient Straps:** For securing the patient safely.
- **X-ray Cassette Holder:** Compatible with table top material.
- **Hand Remote Holder:** For convenience.

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	6. Power and Battery Backup • **Power Supply:** 220-240V, 50 Hz. • **Battery Backup:** At least 1-hour operational capacity during power failure. • **Power Consumption:** Typically 150-300 W. **7. Materials and Durability** • **Frame Material:** Stainless steel or high-grade aluminium. • **Mattress Material:** Anti-static, waterproof, and easy to clean. • **Durability:** Designed for high usage with minimal maintenance. **8. Compliance and Certification** • **Standards:** ISO 13485, CE Marking, FDA Approval (for applicable regions). • **Safety St**andards: IEC 60601-2-46 for medical electrical equipment safety.	

Anesthesia Machine	• Ventilator Modes: Volume and **General Specifications:**
	• **Type:** Integrated anaesthesia delivery system
	• **Dimensions:** 50 cm (W) x 60 cm (D) x 150 cm (H)
	• **Weight:** 120 kg
	• **Power Supply:** 220V-240V AC, 50/60 Hz
	• **Battery Backup:** 30 minutes minimum
	• **Display:** 12-inch colour touch screen
	• **User Interface:** Touch screen and rotary knob control
	2. Ventilator Specifications:
	• **Modes of Ventilation:**
	  • Volume Control Ventilation (VCV)
	  • Pressure Control Ventilation (PCV)
	  • Synchronised Intermittent Mandatory Ventilation (SIMV)
	  • Pressure Support Ventilation (PSV)
	  • Continuous Positive Airway Pressure (CPAP)	

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- **Tidal Volume Range:** 20 to 1500 mL
- **Respiratory Rate:** 4 to 60 breaths per minute
- **Inspiratory/Expiratory Ratio:** 1:4 to 4:1
- **Pressure Range:** 5 to 70 cm H2O
- **PEEP:** 0 to 30 cm H2O
- **Flow Rate:** 1 to 100 L/min
- **Inspiratory Pause:** Adjustable
- With an integrated Scavenging System.
- With a patient Monitor holder
- With oxygen cylinder holder

3. Breathing System:

- **Circuit Type:** Circle breathing circuit
- **Gas Delivery System:**
  - Oxygen (O2)
  - Nitrous Oxide (N2O)
  - Air
- **Vaporizer Compatibility:** Isoflurane, Sevoflurane, Desflurane, Halothane
- **Fresh Gas Flow:** 0.2 to 15 L/min
- **CO2 Absorber Capacity:** 1 to 2 kg

4. Monitoring:

- **Patient Monitoring Parameters:**
  - Oxygen Saturation (SpO2)
  - End-tidal CO2 (EtCO2)
  - Inhaled and exhaled gas concentrations (O2, N2O, anaesthetic agents)
  - Respiratory Rate
  - Airway Pressure
  - Tidal Volume
- **Integrated Monitors:** ECG, Non-invasive Blood Pressure (NIBP), Invasive Blood Pressure (IBP), Temperature

	5. Alarms and Safety Features:
	• **Audible and Visual Alarms:**
	  • High and low airway pressure
	  • Apnea
	  • Low oxygen supply
	  • High and low tidal volume
	• **Safety Features:**
	  • Oxygen failure protection device
	  • Hypoxic guard
	  • Backup ventilation mode
	  • Battery backup for critical parameters
	  • Anti-hypoxia device
	
	6. Accessories:
	• **Breathing Circuits:** Adult and paediatric circuits
	• **Patient Circuit Filters:** Bacterial/viral filters
	• **Gas Sampling Lines:** Single-use or reusable
	• **Mounting Options:** Mobile cart with lockable casters, anaesthesia machine stand
	
	7. Features:
	• **Integrated Suction System**
	• **Additional Gas Modules**
	• **Electronic Medical Record (EMR) Connectivity**
	• **Wireless Data Transfer**	

Patient Monitor	• **Display**:
	  • Type: TFT-LCD colour display (with controlling buttons)
	  • Size: 12-15 inches (diagonal)
	  • Resolution: 1024 x 768 pixels or higher
	• **Power Supply**:
	  • Input Voltage: 100-240V AC, 50/60 Hz
	  • Battery: Rechargeable lithium-ion battery
	  • Battery Backup: Minimum 4 hours	

Monitoring Parameters

- **ECG (Electrocardiogram)**:
  - Lead Types: 3-lead, 5-lead, and 12-lead
  - Gain: Adjustable
  - Heart Rate Range: 30-300 bpm
  - Accuracy: ±1 bpm or ±1%, whichever is greater
  - Alarms: High/Low heart rate, arrhythmias, asystole
- **SpO2 (Pulse Oximetry):**
  - Range: 0-100%
  - Accuracy: ±2% (70-100% range)
  - Probe Types: Adult, Pediatric, Neonatal
  - Alarms: Low SpO2, sensor off
- **NIBP (Non-Invasive Blood Pressure):**
  - Measurement Modes: Manual, Automatic, STAT
  - Measurement Range: Systolic 40-250 mmHg, Diastolic 20-200 mmHg
  - Accuracy: ±5 mmHg
  - Cuff Sizes: Adult, Pediatric, Neonatal
  - Alarms: High/Low BP, cuff not properly placed
- **Temperature:**
  - Channels: Dual-channel
  - Measurement Range: 25-45°C (77-113°F)
  - Accuracy: ±0.1°C
  - Probe Types: Oral, Rectal, Skin
  - Alarms: High/Low temperature
- **Respiration:**
  - Method: Impedance
  - Range: 0-120 breaths per minute
  - Accuracy: ±2 breaths per minute
  - Alarms: Apnea, high/low respiration rate

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- **Capnography (EtCO2)**:
  - Measurement Range: 0-150 mmHg
  - Accuracy: ±2 mmHg
  - Response Time: <3 seconds
  - Alarms: High/Low EtCO2, sensor disconnect

Connectivity

- **Interfaces**:
  - USB: For data export and software updates
  - Ethernet: For network connectivity
  - Wi-Fi: Optional for wireless connectivity
- **Data Storage**:
  - Internal Memory: Minimum 48 hours of data storage
  - External Memory: USB drive support

Physical Specifications

- **Dimensions**:
  - Width: 300-350 mm
  - Height: 200-250 mm
  - Depth: 150-200 mm
- **Weight**: 4-6 kg

Environmental Conditions

- **Operating Temperature**: 10-40°C (50-104°F)
- **Storage Temperature**: -20-60°C (-4-140°F)
- **Humidity**: 10-90% non-condensing

ACCESSORIES

- Three additional reusable SPO2
- Six additional NIBP cuff 2 Adult, 2 paediatric and 2 neonatal
- Three additional temperature sensors
- One additional EtCO2
- One additional ECG

	Certifications and Compliance • **Standards**: IEC 60601-1 (Medical Electrical Equipment), CE, FDA • **Safety**: Class I or II • EMC: IEC 60601-1-2	

Vital Sign Monitor	**Display**
	• **Type:** TFT LCD, Color
	• **Size:** 10-15 incwhes
	• **Resolution:** 1024 x 768 pixels
	• **Touchscreen:** Optional, with anti-glare coating
	2. Vital Parameters Monitored
	• **Electrocardiogram (ECG)**
	  • Leads: 3-lead, 5-lead, and 12-lead options
	  • Gain: 0.5, 1, 2 cm/mV
	  • Heart Rate Range: 30 to 300 bpm
	  • Accuracy: ±1 bpm or ±1%, whichever is greater
	• **Blood Pressure (NIBP)**
	  • Method: Oscillometric
	  • Measurement Range:
	  • Systolic: 40 to 260 mmHg
	  • Diastolic: 20 to 200 mmHg
	  • Mean: 30 to 230 mmHg
	  • Accuracy: ±5 mmHg
	• **Pulse Oximetry (SpO2)**
	  • Range: 0 to 100%
	  • Accuracy: ±2% (70-100% range)
	  • Pulse Rate Range: 30 to 250 bpm
	• **Respiration Rate (RR)**
	  • Range: 0 to 120 breaths per minute
	  • Accuracy: ±2 breaths per minute
	• **Temperature**
	  • Range: 25 to 45°C (77 to 113°F)
	  • Accuracy: ±0.1°C	

3. Connectivity

- **Wireless Connectivity:** Wi-Fi 802.11 a/b/g/n, Bluetooth
- **Wired Connectivity:** Ethernet, USB ports
- **Data Storage:** Internal storage for patient data, expandable with SD card

4. Alarms

- **Types:** Audible and visual alarms
- **Adjustable Settings:** Thresholds for high and low limits
- **Alarm Priority Levels:** High, medium, low

5. Power Supply

- **Battery Type:** Rechargeable lithium-ion
- **Battery Life:** Minimum 4-6 hours of continuous monitoring
- **Power Input:** 100-240V AC, 50/60Hz

6. Physical Characteristics

- **Dimensions:** Approx. 300mm x 200mm x 100mm (L x W x H)
- **Weight:** Less than 5 kg
- **Mounting Options:** Bedside stand, wall mount, mobile cart

7. Environmental Specifications

- **Operating Temperature:** 10 to 40°C (50 to 104°F)
- **Storage Temperature:** -20 to 60°C (-4 to 140°F)
- **Humidity:** 15 to 95% non-condensing

8. Compliance and Standards

- **Certifications:** CE, FDA, ISO 13485
- **Safety Standards:** IEC 60601-1, IEC 60601-1-2 (EMC)

9. User Interface

- **Language Support:** Multiple languages
- **User-Friendly Interface:** Intuitive menu navigation, customizable display settings

	ACCESSORIES • Three additional reusable SPO2 • Six additional NIBP cuff 2 Adult, 2 paediatric and 2 neonatal • Three additional temperature sensors • One additional ECG	
Cardiac Monitor	**Display:** • Type: Color TFT LCD • Size: 10-15 inches diagonal • Resolution: 1024 x 768 pixels or higher • Touchscreen: Optional **2. Parameters Monitored:** • ECG (Electrocardiogram) • SpO2 (Oxygen Saturation) • NIBP (Non-Invasive Blood Pressure) • IBP (Invasive Blood Pressure) • EtCO2 (End-Tidal Carbon Dioxide) • Respiration Rate • Temperature • Cardiac Output (optional) **3. ECG:** • Lead Configuration: 3-lead or 5-lead, optional 12-lead • Display Speed: 12.5, 25, 50 mm/s • Gain: 0.25, 0.5, 1, 2 cm/mV • Frequency Response: 0.05-100 Hz **4. SpO2:** • Measurement Range: 0-100% • Accuracy: ±2% (70-100%), ±3% (50-69%) • Probe Type: Reusable or disposable **5. NIBP:** • Measurement Method: Oscillometric • Measurement Range: Systolic: 40-250 mmHg, Diastolic: 10-200 mmHg • Cuff Sizes: Neonatal, paediatric, adult, large adult	

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6. IBP:

- Measurement Range: -50 to 300 mmHg
- Transducer Sensitivity: 5 µV/V/mmHg
- Channels: Up to 4

7. EtCO2:

- Measurement Range: 0-150 mmHg
- Accuracy: ±2 mmHg
- Sampling Rate: 50 ml/min (mainstream and sidestream)

8. Respiration Rate:

- Measurement Range: 0-120 breaths per minute
- Accuracy: ±1 breath per minute

9. Temperature:

- Measurement Range: 0-50°C (32-122°F)
- Accuracy: ±0.1°C
- Channels: Dual-channel

10. Connectivity:

- Network: Wi-Fi, LAN
- Data Export: USB, SD card, HL7 support
- Integration: HIS/CIS interface

11. Alarms:

- Types: Visual and audible
- Levels: High, medium, low
- Customization: User-defined limits and priorities

12. Power:

- Power Supply: 100-240V AC, 50/60Hz
- Battery Backup: Rechargeable lithium-ion, up to 4 hours operation

	13. Physical Specifications: • Dimensions: 300mm x 250mm x 100mm (LxWxH) • Weight: 3-5 kg • Mounting: Bedside, wall mount, rolling stand **14. Environmental Conditions:** • Operating Temperature: 10-40°C (50-104°F) • Storage Temperature: -20 to 60°C (-4 to 140°F) • Humidity: 10-95% non-condensing **15. Compliance and Certifications:** • Safety: IEC 60601-1 • EMC: IEC 60601-1-2 • FDA Approval: Class II device (for the US market) • CE Marking: European Conformity	
Electrosurgical Unit	• Power Output: 300-400W • Modes: Cut, coagulate, blend • Frequency: 300-500 kHz • Display: Digital with touch control • Safety Features: Patient return electrode monitoring, automatic power adjustment	
Endoscopy Tower	**1. Tower Structure** • **Material**: Stainless steel/aluminium for durability and ease of cleaning. • **Dimensions**: Adjustable height, standard dimensions (H: 180-200 cm, W: 50-70 cm, D: 60-80 cm). • **Mobility**: Four casters with brakes for easy manoeuvrability and stability. • **Shelves**: Adjustable and modular shelves to accommodate different equipment sizes. • **Cable Management**: Integrated cable channels for organised and safe cable routing.	

2. Endoscopic Camera System

- **Camera Head**:
  - **Resolution**: 1080p Full HD or 4K Ultra HD.
  - **Sensors**: CMOS sensor.
  - **Light Sensitivity**: High sensitivity for low-light conditions.
  - **Autofocus**: Automatic and manual focus options.
- **Control Unit**:
  - **Outputs**: HDMI, DVI, SDI, and USB for connectivity.
  - **Image Processing**: Advanced image enhancement features (e.g., noise reduction, colour enhancement).
  - **Recording**: Integrated recording system with storage options (internal HDD/SSD, external USB storage).

3. Light Source

- **Type**: LED or Xenon light source.
- **Brightness**: Adjustable brightness, typically 100-300 W.
- **Colour Temperature**: 5000-6000K for accurate colour reproduction.
- **Life Span**: LED (20,000+ hours), Xenon (500+ hours).

4. Monitor/Display

- **Size**: 24-32 inches.
- **Resolution**: 1080p Full HD or 4K Ultra HD.
- **Panel Type**: IPS or OLED for wide viewing angles and high contrast.
- **Mounting**: Adjustable arm or fixed mount.

	5. Insufflator • **Flow Rate**: 0-40 L/min adjustable. • **Pressure Range**: 0-30 mmHg adjustable. • **Gas Type**: CO2, with integrated heating to body temperature. • **Alarms**: Overpressure and low-pressure alarms. **6. Suction/Irrigation Pump** • **Flow Rate**: Adjustable flow rates (up to 2 L/min). • **Pressure**: Adjustable pressure (up to 600 mmHg). • **Reservoir Capacity**: 1-3 litres. **7. Documentation System** • **Image/Video Storage**: Digital storage options with high capacity (HDD/SSD). • **Connectivity**: USB, Ethernet, Wi-Fi for easy data transfer. • **Software**: User-friendly interface for image and video management. **8. Electrosurgical Unit (Optional)** • **Modes**: Cut, coagulate, blend. • **Power Output**: Adjustable power settings (up to 400W). • **Safety Features**: Return electrode monitoring, automatic shutdown on fault detection. **9. Additional Accessories** • **Keyboard and Mouse**: For system control and data entry. • **Foot Pedal**: For hands-free operation of certain functions. • **Printer**: For immediate printing of images and reports. • **Sterile Covers**: For maintaining sterility during procedures.	
	Safety and Compliance • **Standards**: CE, FDA, ISO 13485 certified. • **Electrical Safety**: IEC 60601 compliant. • **Ste**rilisation: All components should be easy to clean and compatible with standard sterilisation procedures.	

Laparoscopy Tower	**High-Definition Monitor:** • **Resolution:** Full HD (1920 x 1080) or 4K (3840 x 2160) • **Size:** 26 inches or larger • **Brightness:** 400-700 cd/m² • **Contrast Ratio:** 1000:1 or higher • **Inputs:** HDMI, DVI, VGA, SDI • **Viewing Angle:** 178 degrees horizontal and vertical **2. Camera Control Unit (CCU):** • **Resolution:** Full HD (1920 x 1080) or 4K (3840 x 2160) • **Frame Rate:** 60 fps • **White Balance:** Auto and manual • **Gain Control:** Auto and manual • **Output Ports:** HDMI, DVI, SDI • **Recording Options:** Internal SSD, USB, Network **3. Laparoscope:** • **Diameter:** 5 mm, 10 mm • **Length:** 300 mm, 330 mm • **Field of View:** 30 degrees, 45 degrees • **Direction of View:** 0 degrees, 30 degrees, 45 degrees • **Autoclavable:** Yes **4. Light Source:** • **Type:** LED or Xenon • **Brightness:** 150 W (LED) or 300 W (Xenon) • **Colour Temperature:** 6000-7000 K • **Lifespan:** 20,000 hours (LED) or 500 hours (Xenon) • **Cooling System:** Active cooling with a fan **5. Insufflator:** • **Flow Rate:** 0.1-40 L/min • **Pressure Range:** 0-30 mmHg • **Safety Features:** Overpressure alarm, flow limit, automatic pressure release • **Display:** Digital, showing pressure, flow rate, and total gas used • **Gas Compatibility:** CO2	

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6. Suction/Irrigation Unit:

- **Flow Rate:** 0.1-1.5 L/min
- **Pressure:** 0-400 mmHg
- **Control:** Footswitch or hand control
- **Reservoir Capacity:** 1-5 litres

7. Electrosurgical Unit (ESU):

- **Power Output:** 0-300 W
- **Modes:** Cut, coagulate, blend
- **Frequency:** 400-500 kHz
- **Safety Features:** Patient return electrode monitoring, automatic power adjustment
- **Footswitch Control:** Yes

8. Endoscopic Trolley:

- **Shelves:** Adjustable, with cable management
- **Wheels:** Lockable, swivel castors
- **Material:** Stainless steel or high-strength plastic
- **Dimensions:** Customizable to fit components

Additional Features:

- **Image Capture and Recording:**
  - Integrated system for capturing still images and videos.
  - Storage: Internal SSD, external USB, or network storage.
- **Integration Capabilities:**
  - Compatibility with hospital information systems (HIS) and electronic medical records (EMR).
- **Sterilisation**:
  - All reusable components must be autoclavable.
  - Disposable accessories should be available for single-use applications.

ENT Tower	**ENT Workstation Frame** • **Material**: Stainless steel or high-quality aluminium. • **Dimensions**: Adjustable height 150-180 cm, width 60-80 cm, depth 50-70 cm. • **Weight Capacity**: Up to 150 kg. • **Mobility**: Mounted on lockable, anti-static caster wheels. **2. Microscope** • **Type**: Binocular or trinocular operating microscope. • **Magnification**: 3-step or continuous zoom (4x to 24x). • **Objective Lens**: 200 mm focal length. • **Illumination**: LED or halogen light source, intensity adjustable. • **Focus**: Manual or motorised focus. • **Eyepieces**: Wide-field 10x/12.5x. • **Camera**: Optional HD camera for video recording. **3. Light Source** • **Type**: LED or Xenon light source. • **Intensity**: 100,000 to 300,000 lux. • **Color Temperature**: 5,500 K. • **Cooling System**: Quiet, efficient cooling fan. • **Controls**: Intensity control, auto-off feature. **4. Endoscopes** • **Types**: Rigid and flexible endoscopes. • **Sizes**: Various diameters (2.7 mm to 4 mm). • **Lengths**: 110 mm to 175 mm. • **Viewing Angle**: 0°, 30°, 70°, 90°. • **Material**: Medical-grade stainless steel and fibre optics. **5. Camera System** • **Resolution**: Full HD (1920 x 1080) or 4K. • **Sensor Type**: CMOS. • **Output**: HDMI, DVI, USB 3.0. • **Controls**: Auto white balance, image capture, video recording. • **Storage**: External HDD or SSD, minimum 1 TB.	

6. Monitors

- **Type**: LED or LCD monitor.
- **Size**: 22-inch to 32-inch.
- **Resolution**: Full HD (1920 x 1080) or 4K.
- **Mounting**: Adjustable arm for flexibility.
- **Input Ports**: HDMI, DVI, VGA.

7. Suction Unit

- **Motor**: Oil-free piston pump.
- **Capacity**: 20-30 liters per minute.
- **Vacuum Range**: 0 to -760 mmHg.
- **Noise Level**: <50 dB.
- **Collection Jar**: Autoclavable, 1 to 2 liters.

8. Electrosurgical Unit (ESU)

- **Frequency**: 300 kHz to 500 kHz.
- **Power Output**: Up to 120 watts (cutting), up to 80 watts (coagulation).
- **Modes**: Pure cut, blend cut, coagulation, bipolar.
- **Safety Features**: Audible alarms, patient return electrode monitoring.

9. Instrument Tray

- **Material**: Stainless steel.
- **Size**: Various sizes (standard: 40 cm x 30 cm).
- **Features**: Perforated for sterilization, autoclavable.

10. Fiber Optic Cables

- **Type**: High-density fiber optic.
- **Length**: 1.5 m to 3 m.
- **Connector**: Compatible with standard light sources and endoscopes.

11. Additional Features

- **Documentation**: Digital and paper documentation for patient records.
- **Connectivity**: Wi-Fi and Ethernet ports for data transfer and internet access.

	• **Power Supply**: 110-240 V AC, 50/60 Hz. • **Emergency Power**: Battery backup for at least 30 minutes. • **User Interface**: Touch screen or button controls, user-friendly software interface. **Compliance and Certifications** • **ISO 13485**: Quality management system for medical devices. • **CE Marking**: Compliance with European health, safety, and environmental protection standards. • **FDA Approval**: Approval for use in the United States (if applicable). **Maintenance and Warranty** • **Warranty**: Minimum 2 years on all components. • **Maintenance**: Annual service contract, availability of replacement parts for at least 7 years. • User Training: Comprehensive training program for medical staff	
Horizontal Tabletop Autoclave	• Capacity: 20-30L • Sterilisation Temperature: 121-134°C • Pressure: 15-30 psi • Cycle Time: 20-45 minutes • Control: Digital touchscreen • Chamber Material: Stainless steel	
Vertical Tabletop Autoclave	• Capacity: 20-30L • Sterilisation Temperature: 121-134°C • Pressure: 15-30 psi • Cycle Time: 20-45 minutes • Control: Digital touchscreen • Chamber Material: Stainless steel	

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- **Caeneral Specifications:**
- **Model:** AutoClave-50L
- **Capacity:** 50 liters
- **Chamber Dimensions:**
  - Diameter: 400 mm
  - Depth: 400 mm
- **Overall Dimensions:**
  - Height: 1000 mm
  - Width: 700 mm
  - Depth: 700 mm
- **Weight:** Approximately 80 kg

Construction:

- **Chamber Material:**
  - Stainless Steel (Grade 304 or 316)
- **Outer Body:**
  - Powder-coated mild steel or stainless steel
- **Lid Type:**
  - Hinged or sliding lid with secure locking mechanism
- **Gasket:**
  - Silicon rubber gasket for airtight sealing

Performance:

- **Temperature Range:** 121°C to 134°C
- **Pressure Range:** 1.1 to 2.1 bar (110 to 210 kPa)
- **Sterilization Time:** Adjustable from 0 to 99 minutes
- **Cycle Types:**
  - Pre-vacuum (dynamic air removal)
  - Gravity displacement
  - Liquid cycle
  - Flash cycle
- **Heating Element:**
  - High-efficiency tubular heaters or electrical heaters

Control System:

- **Controller Type:**
  - Microprocessor-based control system with touch screen interface
- **Display:**
  - Digital display showing temperature, pressure, and cycle status
- **Programming:**
  - Programmable cycles with multiple settings for different sterilization needs
- **Alarms:**
  - Audio-visual alarms for cycle completion, over-temperature, and over-pressure conditions

Safety Features:

- **Pressure Relief Valve:**
  - Automatic release of excess pressure to ensure safety
- **Over-temperature Protection:**
  - Automatic shutdown in case of temperature exceeding set limits
- **Door Safety Interlock:**
  - Prevents the door from opening under pressure
- **Water Level Sensor:**
  - Ensures sufficient water level in the chamber before starting the cycle
- **Emergency Stop Button:**
  - For immediate shutdown in case of an emergency

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Autoclave 50L	**Utilities:**
	• **Power Supply:**
	  • 220V/50Hz or 110V/60Hz, single-phase
	• **Power Consumption:**
	  • Approximately 3-5 kW
	• **Water Supply:**
	  • Distilled or deionized water input with a built-in reservoir or direct connection
	• **Drainage:**
	  • Condensate drainage system with a connection for waste discharge
	
	Compliance and Standards:
	• **Standards:**
	  • Complies with international standards such as ISO 13485, CE marking, and FDA
	• **Documentation:**
	  • User manual, calibration certificates, and validation reports
	
	Optional Features:
	• **Printer:**
	  • Integrated or external printer for cycle documentation
	• **Data Logging:**
	  • USB or Ethernet interface for data logging and download
	• **Remote Monitoring:**
	  • Connectivity options for remote monitoring and control
	• **Bowie-Dick Test Capa**bility:
	  • For testing the effectiveness of air removal	

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General Specifications:

- **Capacity:** 247 liters
- **Chamber Dimensions:** Diameter 660 mm x Depth 720 mm
- **Overall Dimensions:** Width 1000 mm x Depth 1600 mm x Height 1400 mm
- **Weight:** Approximately 400 kg

Construction:

- **Chamber Material:** Stainless steel 316L
- **Jacket Material:** Stainless steel 304
- **Door Material:** Stainless steel 304, double-walled with thermal insulation
- **Door Mechanism:** Motorized vertical sliding door with safety interlock system
- **Gaskets:** High-temperature silicone gaskets

Operating Parameters:

- **Temperature Range:** 105°C to 137°C
- **Pressure Range:** 1.1 to 2.5 bar (110 to 250 kPa)
- **Heating System:** Electric heaters (high-efficiency tubular heaters)
- **Power Supply:** 380V, 50/60Hz, 3-phase, 18 kW
- **Sterilization Cycles:** Pre-vacuum, gravity, liquid, and flash cycles

Control System:

- Microprocessor-based control system with a digital display
- Programmable cycle parameters (time, temperature, pressure)
- User-friendly interface with touch screen
- Data storage and retrieval for up to 100 cycles
- Automatic cycle start and stop with alarms for cycle completion and faults

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Autoclave 247L	**Safety Features:** • Automatic door lock and unlocking system • Over-temperature and over-pressure protection • Safety valve and pressure relief valve • Chamber and door thermal insulation • Emergency stop button • Built-in diagnostic system for fault detection **Additional Features:** • Water and steam saving system • Vacuum pump for pre-vacuum and post-vacuum phases • Integrated printer for cycle documentation • USB and Ethernet ports for data transfer and remote monitoring • Stainless steel loading shelves and trays **Compliance:** • ISO 13485: Medical devices – Quality management systems • EN 285: Large steam sterilizers • IEC 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use • CE Marking **Accessories:** • Stainless steel loading carts • Biohazard waste container • Water filtration system • Water softener • Steam generator (if required)	

Low Temperature Steriliser 145L	**Capacity:** • Total Volume: 145 liters • Usable Chamber Volume: Approx. 130 liters **Sterilization Method:** • Low Temperature Hydrogen Peroxide Plasma Sterilization **Sterilization Temperature:** • Operating Temperature: 37°C to 44°C **Sterilant:** • Hydrogen Peroxide Concentration: 58%-95% **Cycle Time:** • Standard Cycle: 28-60 minutes • Advanced Cycle: Up to 75 minutes (depending on load and material) **Chamber Dimensions:** • Chamber Size (W x H x D): 550 mm x 380 mm x 695 mm • Chamber Material: High-quality stainless steel **Control System:** • Microprocessor-based control system • Touchscreen Interface: 7-inch LCD with user-friendly interface **Monitoring and Safety Features:** • Real-time monitoring of temperature, pressure, and sterilant concentration • Automatic detection of cycle failures and system malfunctions • Built-in printer for cycle documentation • USB port for data export	

Utilities:

- Power Supply: 220-240V, 50/60Hz
- Power Consumption: 2.5 kW
- Water Supply: Distilled or deionized water for internal use

Dimensions and Weight:

- External Dimensions (W x H x D): 750 mm x 1650 mm x 950 mm
- Weight: Approx. 250 kg

Compliance and Standards:

- ISO 14937: General Requirements for the Characterization of a Sterilizing Agent
- EN 285: Large Steam Sterilizers
- FDA 510(k) clearance

Additional Features:

- HEPA filtration system for chamber ventilation
- Multiple cycle options for different types of loads (e.g., lumened devices, non-lumened devices, flexible endoscopes)
- Integrated barcode scanner for tracking sterilization cycles
- Network connectivity for remote monitoring and software updates

Steam Sterilizer 250L	**General Specifications:**
	
	• **Chamber Capacity:** 250 liters
	• **Chamber Dimensions (Diameter x Depth):** 600 mm x 880 mm
	• **Overall Dimensions (WxDxH):** 1200 mm x 1600 mm x 1800 mm
	• **Material:**
	  • **Chamber:** Stainless Steel 316L
	  • **Jacket:** Stainless Steel 304
	  • **Door:** Stainless Steel 316L, automatic sliding door with safety lock
	• **Insulation:** High-density mineral wool for thermal efficiency
	• **Weight:** Approximately 800 kg
	
	Performance Specifications:
	
	• **Sterilization Temperature Range:** 121°C to 134°C
	• **Pressure Range:** 0.1 MPa to 0.3 MPa (1 bar to 3 bar)
	• **Sterilization Cycles:** Pre-vacuum, Gravity, Liquid, and Flash
	• **Heating Time:** ≤ 30 minutes to reach 134°C
	• **Cooling Time:** ≤ 45 minutes for complete cycle
	• **Vacuum System:** High-efficiency water ring vacuum pump
	• **Steam Source:** Built-in steam generator or external steam supply
	• **Cycle Time:** Adjustable, typically 30-90 minutes depending on cycle type
	
	Control System:
	
	• **Controller Type:** Microprocessor-based PLC (Programmable Logic Controller)
	• **User Interface:** Touchscreen display, color, 10.4-inch
	• **Cycle Documentation:** Integrated printer or USB data logging
	• **Alarms and Indicators:**
	  • High/Low temperature
	  • High/Low pressure
	  • Door open/close status
	  • Cycle completion	

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Safety Features:

- **Overpressure Protection:** Pressure relief valve
- **Temperature Protection:** Over-temperature cut-off
- **Door Safety:** Interlock system preventing door opening during cycles
- **Water Level Sensors:** Automatic filling and drainage with low/high water level detection

Utility Requirements:

- **Power Supply:** 380V/50Hz or 440V/60Hz, 3-phase
- **Power Consumption:** Approximately 15 kW
- **Water Supply:** Clean, soft water, pressure 2-5 bar
- **Drainage:** Suitable for hot effluent

Additional Features:

- **Optional Accessories:**
  - Loading trolleys and transfer carriages
  - Additional shelves and trays
- **Compliance:**
  - EN 285, ISO 9001, ISO 13485
  - CE Marking
  - FDA approved components

Steam Sterilizer 321L	**General Specifications:**
	• **Model:** Steam Sterilizer 321L
	• **Chamber Capacity:** 321 liters
	• **Chamber Dimensions:**
	  • Width: 600 mm
	  • Height: 600 mm
	  • Depth: 895 mm
	• **Overall Dimensions:**
	  • Width: 900 mm
	  • Height: 1800 mm
	  • Depth: 1200 mm
	• **Net Weight:** 700 kg
	• **Load Capacity:** Up to 300 kg of instruments
	
	Construction:
	
	• **Chamber Material:** High-grade stainless steel (AISI 316L)
	• **Exterior Material:** Stainless steel (AISI 304)
	• **Insulation:** High-density mineral wool
	• **Door Type:** Horizontal sliding or hinged, double-door (pass-through) option available
	• **Gasket Material:** Silicone rubber
	
	Sterilization Cycles:
	
	• **Cycle Types:** Pre-vacuum, Gravity, Liquid, Flash, Prion
	• **Cycle Parameters:**
	  • **Temperature Range:** 121°C to 134°C
	  • **Pressure Range:** 1.1 to 2.3 bar
	  • **Sterilization Time:** 3 to 30 minutes (adjustable)
	• **Drying Phase:** Vacuum drying
	
	Control System:
	
	• **Control Panel:** Microprocessor-based PLC control system with touch screen interface
	• **Display:** 7-inch color touch screen
	• **Programmable Cycles:** Up to 20 customizable cycles
	• **Data Logging:** Built-in printer and USB port for data export
	• **Alarms and Alerts:** Audible and visual alarms for cycle completion, errors, and maintenance	

Performance:

- **Steam Generation:** Integrated steam generator with rapid heating elements
- **Water Consumption:** Approximately 15 liters per cycle
- **Steam Quality:** Saturated steam, free of non-condensable gases
- **Vacuum System:** High-efficiency vacuum pump, capable of deep vacuum levels

Safety Features:

- **Pressure Safety Valve:** Prevents over-pressurization
- **Temperature Safety Cut-off:** Prevents overheating
- **Door Locking Mechanism:** Interlocked doors to prevent opening during operation
- **Emergency Stop Button:** Immediate cycle termination

Utilities:

- **Power Supply:** 380-415V, 50/60 Hz, three-phase
- **Power Consumption:** 12 kW
- **Water Supply:** Cold, softened water connection (2-5 bar pressure)
- **Drainage:** Heat-resistant drainage system

Additional Features:

- **Load Trays:** Removable stainless steel trays for easy loading and unloading
- **Documentation:** Complete IQ/OQ/PQ validation documentation
- **Compliance:** CE marked, ISO 13485, EN 285 compliant

Optional Accessories:

- **Loading Carts:** Ergonomic stainless steel loading carts
- **Remote Monitoring:** Integration with hospital network for remote monitoring and control
- **Water Treatment** Unit: For optimal water quality and extended equipment life

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Handheld ABG	• Parameters: pH, pCO2, pO2, HCO3-, lactate, glucose • Display: 2-3 inch colour screen • Battery Life: 4-6 hours • Connectivity: Bluetooth • Data Storage: 50-100 samples • Weight: < 1 kg	
ABG Machine	• Parameters: pH, pCO2, pO2, HCO3-, lactate, glucose • Display: 7-10 inch colour screen • Battery Life: 4-6 hours • Connectivity: Wi-Fi, Bluetooth, LAN • Data Storage: 500-1000 samples	
Instrument Washer	• Capacity: 50-100 instruments • Cycle Time: 20-40 minutes • Temperature: 50-90°C • Control: Digital touchscreen • Chamber Material: Stainless steel • Programs: Multiple wash and rinse cycles	
Mobile Suction Machine	• Suction Capacity: 20-40 L/min • Vacuum: -0.80 to -0.90 bar • Canister Capacity: 1-2L • Battery Backup: 2-4 hours • Noise Level: < 50 dB • Control: Analog and digital	
Suction Venturi Machine	• Suction Capacity: 20-40 L/min • Vacuum: -0.80 to -0.90 bar • Canister Capacity: 1-2L • Noise Level: < 50 dB • Control: Analog and digital	
Infusion Pump	• Flow Rate: 0.1-1200 mL/h • Accuracy: ±5% • Display: 4-6 inch colour screen • Battery Life: 4-6 hours • Alarms: Occlusion, air-in-line, low battery, infusion complete	
Syringe Pump	• Flow Rate: 0.1-100 mL/h • Accuracy: ±2% • Display: 4-6 inch colour screen • Battery Life: 4-6 hours • Alarms: Occlusion, air-in-line, low battery, infusion complete	
Fluid Warmer	• Temperature Range: 37-42°C • Flow Rate: 2-6 L/min • Display: Digital with temperature control • Alarm System: Over-temperature, flow obstruction • Battery Backup: 1-2 hours	

Bone Drilling Machine	• Speed: 0-3,000 RPM • Power: 100-200W • Battery Backup: 2-4 hours • Control: Handheld with variable speed • Material: Stainless steel and polymer • Sterilising Case • Supplied with all accessories drill bit locking case	
Plaster Saw	• Speed: 0 -12,000 RPM • Blade Material: Stainless steel • Weight: 1-2 kg • Noise Level: < 60 dB • Control: Handheld with variable speed • Aspirator with extraction hood • Extraction hose	
Infant Radiant Warmer	• Temperature Range: 35-37°C • Heater Power: 600-800W • Display: Digital with temperature control • Alarm System: Over-temperature, power failure • Battery Backup: 1-2 hours • Apgar timer • Venturi Suction • Temperature sensor • Infusion pump tray holder	
Pulse Oximeter	• Parameters: SpO2, Pulse rate • Display: 1-2 inch color screen • Battery Life: 6-8 hours • Accuracy: ±2% SpO2, ±3 bpm pulse rate • Weight: < 200g	
Laryngoscope	• Blade Material: Stainless steel • Handle: LED light source • Blade Sizes: Various (neonatal to adult) • Battery Life: 6-8 hours • Sterilisation: Autoclavable	

Defibrillator	**General Specifications:**
	
	• **Type**: Automated External Defibrillator (AED) / Manual Defibrillator
	• **Energy Delivery**: Biphasic waveform
	• **Energy Range**:
	  • AED: 150 to 200 Joules
	  • Manual: 1 to 360 Joules
	• **Charge Time**: Less than 10 seconds to maximum energy
	
	Display:
	
	• **Type**: LCD / LED
	• **Size**: 5 to 7 inches
	• **Parameters Displayed**: ECG waveform, energy settings, battery status, event log
	
	ECG Monitoring:
	
	• **Leads**: 3-lead and 5-lead ECG cables
	• **Modes**: Monitor, Manual, AED
	• **Heart Rate Range**: 30 to 300 BPM
	• **Sensitivity**: 0.25, 0.5, 1, 2 cm/mV
	
	Battery:
	
	• **Type**: Rechargeable Lithium-ion
	• **Capacity**: At least 200 shocks at 200 Joules or 6 hours of monitoring
	• **Charge Time**: 3 to 4 hours
	
	Physical Characteristics:
	
	• **Dimensions**: Approx. 30 x 25 x 10 cm (H x W x D)
	• **Weight**: 3 to 6 kg
	• **Materials**: Impact-resistant plastic casing
	
	Environmental Specifications:
	
	• **Operating Temperature**: 0°C to 50°C
	• **Storage Temperature**: -20°C to 60°C
	• **Humidity**: 5% to 95% non-condensing
	• **Altitude**: Up to 4,000 meters	

	Safety and Standards: • **Safety Standards**: IEC 60601-1, IEC 60601-2-4 • **Defibrillation Protection**: Built-in • **IP Rating**: IPX4 or higher for splash resistance **Additional Features:** • **Voice Prompts**: Clear, loud prompts guiding through the defibrillation process • **Self-Test**: Daily, weekly, and monthly automated self-tests • **Data Storage**: Internal memory for at least 100 event logs or 1 GB storage • **Connectivity**: USB port, Bluetooth for data transfer • **Pediatric Mode**: Optional pediatric pads and lower energy settings • **CPR Assistance**: Real-time feedback on compression depth and rate (optional) **Accessories:** • **Electrodes/Pads**: Adult and pediatric pads, with a shelf life of at least 2 years • **Carrying Case**: Rugged, easy-to-carry case • **Battery Charger**: Compatible with standard electrical outlets • **ECG E**lectrodes: Reusable or disposable options	
Baby Weighing Machine	• Capacity: 20 kg • Accuracy: ±5g • Display: Digital • Battery Life: 6-8 hours • Features: Tare function, hold function	

LABORATORY EQUIPMENT

EQUIPMENT	SPECIFICATION	BRAND & MODEL
Binocular Microscopes	• Magnification: 40x to 1000x • Eyepieces: 10x wide-field • Objective Lenses: 4x, 10x, 40x, 100x (oil immersion) • Illumination: LED with adjustable intensity • Stage: Mechanical stage with XY controls • Focus: Coarse and fine focusing knobs • Condenser: Abbe condenser with iris diaphragm	
Light Microscope	• Magnification: 40x to 1000x • Eyepieces: 10x wide-field • Objective Lenses: 4x, 10x, 40x, 100x (oil immersion) • Illumination: Halogen or LED with adjustable intensity • Stage: Mechanical stage with XY controls • Focus: Coarse and fine focusing knobs • Condenser: Abbe condenser with iris diaphragm	
Fluorescence Microscope	• Magnification: 40x to 1000x • Eyepieces: 10x wide-field • Objective Lenses: 4x, 10x, 40x, 100x (oil immersion) • Illumination: Mercury or LED light source • Filters: DAPI, FITC, TRITC • Stage: Mechanical stage with XY controls • Focus: Coarse and fine focusing knobs	
LED Microscope	• Magnification: 40x to 1000x • Eyepieces: 10x wide-field • Objective Lenses: 4x, 10x, 40x, 100x (oil immersion) • Illumination: LED with adjustable intensity • Stage: Mechanical stage with XY controls • Focus: Coarse and fine focusing knobs • Condenser: Abbe condenser with iris diaphragm	
Surgical Microscope	• Magnification: 3x to 25x • Eyepieces: 10x wide-field • Objective Lenses: Zoom lens system • Illumination: LED or halogen, coaxial and fiber optic illumination • Adjustability: Motorized focus and zoom, inclinable binocular tube • Mounting: Floor stand or ceiling mount • Control Panel: Touchscreen control for light and magnification adjustments	

Multi Head Microscope	• Magnification: 40x to 1000x • Eyepieces: 10x wide-field, multiple viewing heads (up to 5 or more) • Objective Lenses: 4x, 10x, 40x, 100x (oil immersion) • Illumination: LED with adjustable intensity • Stage: Mechanical stage with XY controls • Focus: Coarse and fine focusing knobs • Condenser: Abbe condenser with iris diaphragm	
Karyotype Microscope	• Magnification: 10x to 1000x • Eyepieces: 10x wide-field • Objective Lenses: Plan achromatic objectives • Illumination: LED with adjustable intensity • Stage: Motorised stage with XY controls • Focus: Coarse and fine focusing knobs • Condenser: Abbe condenser with iris diaphragm • Camera: High-resolution camera for image capturing	
Table Top Centrifuge	• Max Speed: 15,000 RPM • Capacity: 24 x 1.5/2.0 mL tubes • Rotor Types: Fixed angle and swing-out • Control Panel: Digital display with speed and time settings • Safety Features: Lid lock, imbalance detection	
Big Centrifuge	• Max Speed: 20,000 RPM • Capacity: 4 x 1,000 mL bottles • Rotor Types: Fixed angle and swing-out • Control Panel: Digital display with speed, time, and temperature settings • Safety Features: Lid lock, imbalance detection, temperature control	
Cell Counting Hematology Analyzer	• Parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT • Throughput: 60 samples per hour • Sample Volume: 20 µL • Display: LCD touchscreen • Storage: 100,000 results • Connectivity: USB, Ethernet	
Blood Grouping Hematology Analyzer	• Parameters: ABO, Rh typing • Throughput: 50 samples per hour • Sample Volume: 20 µL • Display: LCD touchscreen • Storage: 50,000 results • Connectivity: USB, Ethernet	

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Semi-Automated Clinical Chemistry Analyzer	• Parameters: Various biochemical assays • Throughput: 100 tests per hour • Sample Volume: 1-20 µL • Display: LCD touchscreen • Storage: 10,000 results • Connectivity: USB, Ethernet	
Automated Clinical Chemistry Analyzer	• Parameters: Various biochemical assays • Throughput: 600 tests per hour • Sample Volume: 1-10 µL • Display: LCD touchscreen • Storage: 100,000 results • Connectivity: USB, Ethernet	
Lab Incubator	• Temperature Range: Ambient +5°C to 70°C • Capacity: 50 to 250 litres • Control Panel: Digital display with temperature and timer settings • Shelves: Adjustable and removable • Safety Features: Over-temperature alarm	
Roller Mixer	• Speed: 5-80 RPM • Capacity: Up to 15 tubes • Control Panel: Digital display with speed and time settings • Tube Holders: Adjustable rollers for different tube sizes	
Water Bath	• Temperature Range: Ambient +5°C to 99.9°C • Capacity: 2 to 20 liters • Control Panel: Digital display with temperature and timer settings • Safety Features: Over-temperature alarm	
Biosafety Class I	• Airflow: Inward airflow • HEPA Filter: No • Work Surface: Stainless steel • Control Panel: Basic controls for airflow and lighting	
Biosafety Class II	• Airflow: Vertical laminar airflow • HEPA Filter: Yes • Work Surface: Stainless steel • Control Panel: Digital display with airflow and lighting controls	
Biosafety Class III	• Airflow: Total containment with negative pressure • HEPA Filter: Yes • Work Surface: Stainless steel with sealed gloves • Control Panel: Digital display with airflow and lighting controls	

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Agitator	• Speed: 50-300 RPM • Capacity: Up to 10 liters • Control Panel: Digital display with speed and time settings • Platform: Adjustable clamps for different container sizes	
Electrolyte Analyzer	• Parameters: Na+, K+, Cl-, Ca++, pH • Throughput: 60 samples per hour • Sample Volume: 100 µL • Display: LCD touchscreen • Storage: 10,000 results • Connectivity: USB, Ethernet	
Freezer (-40/-80)	• Temperature Range: -40°C to -80°C • Capacity: 100 to 700 litres • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	
Freezer (-10/-60)	• Temperature Range: -10°C to -60°C • Capacity: 100 to 700 liters • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	
Freezer (-130/-150)	• Temperature Range: -130°C to -150°C • Capacity: 100 to 500 litres • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	
Freezer (-30/-60)	• Temperature Range: -30°C to -60°C • Capacity: 100 to 700 liters • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	
Freezer (-20/-40)	• Temperature Range: -20°C to -40°C • Capacity: 100 to 700 liters • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	
Freezer (-10/-30)	• Temperature Range: -10°C to -30°C • Capacity: 100 to 700 liters • Control Panel: Digital display with temperature settings • Shelves: Adjustable and removable • Safety Features: High/low temperature alarm	

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1. Dimensions:

- **External Dimensions (L x W x H):** Customizable (standard sizes: 6′ x 6′ x 8′ up to 10′ x 20′ x 8′)
- **Internal Storage Capacity:** 150 - 2000 cubic feet (depending on the unit size)

2. Temperature Range:

- **Operating Temperature:** +2°C to +8°C (adjustable as per user requirements)
- **Temperature Uniformity:** ±1°C

3. Insulation:

- **Insulation Thickness:** 4 - 6 inches (polyurethane or polystyrene foam)
- **R-Value:** R-25 or higher for optimal thermal insulation

4. Doors:

- **Type:** Hinged or Sliding, with heavy-duty handles
- **Door Size:** 36″ x 78″ (customizable)
- **Door Seal:** Magnetic gaskets for an airtight seal
- **Heated Door Frame:** For environments below freezing to prevent condensation and frost buildup
- **View Window (Optional):** Double-pane, anti-condensation glass

5. Flooring:

- **Material:** Reinforced, anti-slip aluminum or stainless steel
- **Load Capacity:** 600 - 1000 lbs/sq.ft

6. Cooling System:

- **Compressor Type:** Hermetic or semi-hermetic compressor
- **Refrigerant Type:** R-134a, R-404A, or eco-friendly alternatives like R-448A
- **Evaporator Type:** Air-cooled
- **Condensing Unit:** Remote or self-contained
- **Compressor Power:** 1-5 HP depending on the size

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7. Air Circulation:

- **Airflow Type:** Forced air circulation for uniform cooling
- **Fan Speed:** Variable-speed fans to maintain consistent temperature and humidity

8. Lighting:

- **Lighting Type:** LED with energy-efficient controls
- **Lumens:** 500 - 2000 lumens depending on the unit size
- **Door-activated Lighting:** Automatically turns on when the door is opened

9. Control System:

- **Temperature Control:** Digital thermostat with an LCD display
- **Temperature Monitoring:** Remote monitoring capability (optional)
- **Alarm System:** Audio-visual alarms for temperature deviations or door left open
- **Data Logging:** Built-in for continuous monitoring and reporting (optional)

10. Electrical Requirements:

- **Power Supply:** 220-240V, 50/60Hz
- **Power Consumption:** 1.5 - 6.0 kW depending on the unit size

11. Defrost System:

- **Type:** Automatic or manual
- **Cycle Time:** Adjustable based on operational needs

12. Certifications and Compliance:

- **Certifications:** UL, CE, ISO 9001
- **Compliance:** Meets HACCP, GMP, and FDA guidelines for food storage or biomedical storage

13. Additional Features (Optional):

- **Backup Generator Connectivity:** To maintain operations during power outages

Walkin cooler	• **Humidity Control:** Adjustable from 40% to 80% relative humidity (for sensitive materials) • **Modular Design:** Expandable based on future needs • **Anti-micro**bial Coating: For medical and pharmaceutical storage use	
Walkin freezer	**Model/Type**: • Walk-in Freezer **Exterior Dimensions**: • Width: Customizable (e.g., 10 ft) • Depth: Customizable (e.g., 12 ft) • Height: Customizable (e.g., 8 ft) • Note: Dimensions can vary depending on the storage requirements. **Temperature Range**: • Standard Operating Range: -10°F to -20°F (-23°C to -29°C) • Adjustable temperature settings based on storage needs. **Insulation**: • Material: High-density polyurethane foam. • Thickness: Typically 4 to 6 inches (10 to 15 cm). • Insulation Value: R-value ≥ 25 for energy efficiency. **Door**: • Type: Swing door or sliding door. • Size: Customizable (standard sizes like 34" x 78"). • Features: Heated door frame, self-closing, and tight-sealing gasket. • Door Lock: Keyed or electronic access control. **Flooring**: • Material: Non-slip aluminum or stainless steel. • Thickness: Approximately 3 to 4 inches (7.5 to 10 cm) for durability and thermal efficiency.	

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Refrigeration System:

- Type: Split system or remote refrigeration unit.
- Compressor: Hermetic, semi-hermetic, or scroll compressor.
- Refrigerant: R404A, R448A, or other eco-friendly refrigerants.
- Defrost System: Electric or hot gas defrost.
- Evaporator: Ceiling or wall-mounted with airflow management.

Cooling Capacity:

- Typically 10,000 to 30,000 BTU/hour (varies based on size and usage).

Electrical Requirements:

- Voltage: 220V or 380V 50/60 Hz, 3-phase.
- Amperage: Dependent on system size and refrigeration load (e.g., 30-50A).

Control System:

- Digital thermostat with user-friendly interface.
- Temperature alarms (high and low settings).
- Door-open alarm.
- Remote monitoring capability.

Lighting:

- Interior lighting: LED or fluorescent.
- Automatic on/off with door sensor.

Shelving (optional):

- Material: Stainless steel or epoxy-coated steel.
- Adjustable shelves for customizable storage.

Construction:

- Panels: Modular design for easy assembly, galvanized or stainless steel cladding.
- Corrosion-resistant coatings for durability in various environments.

	Safety Features: • Emergency door release (inside). • High-temperature and low-temperature alarms. • Anti-slip flooring. **Energy Efficiency**: • Energy-saving compressor and fan motors. • Insulated doors and panels with high R-value to reduce heat loss. **Compliance**: • Standards: Meets UL, NSF, CE, and other relevant international standards.	
Rapid Plasma freezer	**1. Capacity** • **Internal Volume**: 100 - 500 liters (varies by model) • **Number of Shelves/Drawers**: 4 to 10, depending on capacity • **Storage Capacity**: Approximately 50 - 250 plasma bags **2. Temperature Range** • **Operating Temperature**: -30°C to -80°C • **Cooling Time**: Rapid freezing from ambient temperature to -40°C within 30 minutes • **Temperature Uniformity**: ±2°C throughout the chamber • **Recovery Time**: Fast recovery to set temperature after door opening **3. Refrigeration System** • **Type**: Cascade refrigeration system • **Compressor**: Hermetically sealed, dual-stage • **Refrigerants**: CFC-free, environmentally safe refrigerants (e.g., R-404A, R-508B) • **Condenser**: Air-cooled, low noise level (< 60 dB) • **Defrost System**: Automatic defrost with condensation drain	

4. Control System

- **Controller Type**: Microprocessor-based temperature controller
- **Display**: Digital LED/LCD display for temperature and alarms
- **Control Accuracy**: ±0.5°C
- **Data Logging**: Internal memory for storing temperature data, optional USB or Ethernet port for data export
- **Alarm Systems**:
    - High/low temperature alarms
    - Door open alarm
    - Power failure alarm
    - Audible and visual alerts

5. Construction

- **Exterior**: Stainless steel or powder-coated steel for corrosion resistance
- **Interior**: Stainless steel or aluminum
- **Insulation**: High-density polyurethane foam insulation (up to 150mm thick)
- **Door**: Solid, lockable door with magnetic gasket for tight seal
- **Door Gasket**: Heated gasket to prevent condensation and freezing
- **Access Ports**: 1-2 ports for temperature probes or monitoring devices

6. Electrical Requirements

- **Power Supply**: 220V/50Hz or 110V/60Hz, single phase
- **Power Consumption**: Typically 1.5 kW to 3 kW depending on size
- **Backup Power**: Optional battery backup for alarms and monitoring system

	7. Other Features • **Remote Monitoring**: Optional Wi-Fi or GSM module for remote monitoring and control via smartphone app or web interface • **Castor Wheels**: Heavy-duty swivel wheels with brakes for easy mobility • **Safety Locks**: Electromagnetic or mechanical locks for secure access • **Certification**: CE, ISO 13485, and other relevant certifications • **Calibration**: Comes with NIST traceable calibration certificate **8. Dimensions & Weight** • **External Dimensions**: Varies by model (e.g., 800 mm x 900 mm x 1800 mm for a mid-sized unit) • Weight: 100 - 400 kg, depending on the capacity and model	
Lab refrigerator (3-16)	• Temperature Range: 3°C to 16°C • Capacity: 100 to 500 litres • Cooling System: Forced air circulation • Temperature Control: Digital thermostat with display • Alarm System: High/low temperature, door open, power failure • Shelving: Adjustable and removable • Defrost System: Automatic • Power Supply: 220-240V, 50/60Hz • Interior Lighting: LED	
Water distiller 1L	• Distillation Capacity: 1 litre per hour • Heating Element: 750-1000W • Material: Stainless steel interior • Cooling Method: Air cooling • Power Supply: 220-240V, 50/60Hz • Safety Features: Automatic shutoff when water level is low	
Water distiller 4L	• Distillation Capacity: 4 litres per hour • Heating Element: 1500-2000W • Material: Stainless steel interior • Cooling Method: Air cooling • Power Supply: 220-240V, 50/60Hz • Safety Features: Automatic shutoff when water level is low	

Water distiller 10L	• Distillation Capacity: 10 litres per hour • Heating Element: 2000-2500W • Material: Stainless steel interior • Cooling Method: Air cooling • Power Supply: 220-240V, 50/60Hz • Safety Features: Automatic shutoff when water level is low	
Water distiller 15L	• Distillation Capacity: 15 litres per hour • Heating Element: 2500-3000W • Material: Stainless steel interior • Cooling Method: Air cooling • Power Supply: 220-240V, 50/60Hz • Safety Features: Automatic shutoff when water level is low	
Water distiller 20L	• Distillation Capacity: 20 litres per hour • Heating Element: 3000-3500W • Material: Stainless steel interior • Cooling Method: Air cooling • Power Supply: 220-240V, 50/60Hz • Safety Features: Automatic shutoff when water level is low	
Blood banks	• Temperature Range: 2°C to 6°C • Capacity: 100 to 500 liters • Cooling System: Forced air circulation • Temperature Control: Microprocessor-based with digital display • Alarm System: High/low temperature, door open, power failure • Shelving: Adjustable, blood bag racks • Power Supply: 220-240V, 50/60Hz • Interior Lighting: LED • Backup System: Battery backup for alarms and temperature monitoring	
Tissue processor	• Processing Capacity: 50 to 300 cassettes • Programs: Multiple pre-set and customizable programs • Control System: Microprocessor-based with touchscreen interface • Heating System: Precision temperature control • Vacuum and Pressure: Integrated vacuum and pressure cycles • Reagent Management: Automated reagent transfer and monitoring • Safety Features: Alarm system, emergency stop	
pH meter	• Measurement Range: 0 to 14 pH • Resolution: 0.01 pH • Accuracy: ±0.01 pH • Temperature Compensation: Automatic • Display: Digital LCD • Calibration: Automatic, 2 or 3-point calibration • Power Supply: Battery or AC adapter • Electrode: Replaceable glass electrode	

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Photometer	• Wavelength Range: 340 to 800 nm • Light Source: LED or Tungsten lamp • Detector: Silicon photodiode • Accuracy: ±1% • Display: Digital LCD or touchscreen • Sample Volume: 1 to 10 mL • Power Supply: Battery or AC adapter • Data Storage: Internal memory or external USB	
Urine analyzer	• Parameters: pH, protein, glucose, ketones, bilirubin, urobilinogen, nitrite, leukocytes • Throughput: 60 to 120 tests per hour • Display: Digital LCD or touchscreen • Data Storage: Internal memory for up to 1,000 results • Printer: Built-in thermal printer • Power Supply: 220-240V, 50/60Hz • Connectivity: USB or RS232 for data export	
Haemoglobin metre	• Measurement Range: 0 to 30 g/dL • Accuracy: ±0.1 g/dL • Sample Volume: 10 to 20 µL • Display: Digital LCD • Power Supply: Battery or AC adapter • Calibration: Factory calibrated • Data Storage: Internal memory	
Glucometer	• Measurement Range: 20 to 600 mg/dL • Accuracy: ±5% • Sample Volume: 0.5 to 1 µL • Display: Digital LCD • Power Supply: Battery • Data Storage: Internal memory for up to 500 results • Calibration: Automatic	
Analytical scale	• Capacity: 100 to 500 g • Readability: 0.1 mg • Accuracy: ±0.1 mg • Calibration: Internal or external calibration • Display: Digital LCD or touchscreen • Power Supply: AC adapter • Pan Size: 80 to 120 mm diameter • Data Connectivity: USB or RS232	
CD4 Analyzer	• Throughput: 30 to 60 tests per hour • Sample Volume: 20 to 50 µL • Accuracy: ±5% • Display: Digital touchscreen • Data Storage: Internal memory for up to 10,000 results • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	

Chromatography	• Techniques Supported: HPLC, GC, TLC • Detector Types: UV, PDA, Fluorescence, Refractive Index • Pump Flow Rate: 0.1 to 10 mL/min • Temperature Control: Column oven, 10°C to 80°C • Data System: Integrated software for data acquisition and analysis • Power Supply: 220-240V, 50/60Hz	
Slide Dryer	• Temperature Range: Ambient to 70°C • Capacity: 50 to 100 slides • Control System: Digital thermostat with display • Heating Method: Forced air circulation • Power Supply: 220-240V, 50/60Hz • Safety Features: Over-temperature protection	
Slide Stainer	• Staining Methods: Automated H&E, Papanicolaou, special stains • Capacity: 30 to 100 slides per run • Control System: Microprocessor-based with touchscreen interface • Reagent Management: Automated reagent transfer and monitoring • Power Supply: 220-240V, 50/60Hz • Safety Features: Alarm system, emergency stop	
Coagulator	• Detection Methods: Optical, mechanical • Throughput: 30 to 100 tests per hour • Sample Volume: 50 to 200 µL • Accuracy: ±1% • Display: Digital touchscreen • Data Storage: Internal memory for up to 5,000 results • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	
Molecular Biology Analyzer	• Techniques Supported: PCR, RT-PCR, qPCR • Throughput: 96 to 384 samples per run • Temperature Range: 4°C to 99°C • Accuracy: ±0.1°C • Display: Digital touchscreen • Data Storage: Internal memory for up to 10,000 results • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	
ELISA Reader	• Wavelength Range: 340 to 700 nm • Throughput: 96-well or 384-well plate • Accuracy: ±0.1% • Display: Digital touchscreen • Data Storage: Internal memory for up to 10,000 results • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	

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Immunoassay Analyzer	• Techniques Supported: Chemiluminescence, Fluorescence • Throughput: 60 to 200 tests per hour • Sample Volume: 10 to 200 µL • Accuracy: ±1% • Display: Digital touchscreen • Data Storage: Internal memory for up to 10,000 results • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	
Tissue Processor	• Processing Capacity: 50 to 300 cassettes • Programs: Multiple pre-set and customizable programs • Control System: Microprocessor-based with touchscreen interface • Heating System: Precision temperature control • Vacuum and Pressure: Integrated vacuum and pressure cycles • Reagent Management: Automated reagent transfer and monitoring • Safety Features: Alarm system, emergency stop	
Slide Scanner	• Resolution: Up to 40x magnification • Throughput: 100 to 400 slides per run • Image Format: TIFF, JPEG • Storage Capacity: Internal and external storage options • Power Supply: 220-240V, 50/60Hz • Connectivity: USB, Ethernet	
Tissue Taker Plasma	• Sample Capacity: 20 to 100 samples • Control System: Microprocessor-based with touchscreen interface • Temperature Range: -20°C to 37°C • Safety Features: Alarm system, emergency stop • Power Supply: 220-240V, 50/60Hz	
Automated Embedding Station Center	• Paraffin Capacity: 3 to 5 liters • Heating System: Precision temperature control • Control System: Microprocessor-based with touchscreen interface • Mold Storage: Heated storage for embedding molds • Safety Features: Alarm system, emergency stop • Power Supply: 220-240V, 50/60Hz	
Microtome	• Section Thickness Range: 0.5 to 100 µm • Precision: ±0.1 µm • Cutting Mode: Manual, semi-automatic, or fully automatic • Control System: Digital display for thickness setting • Blade Holder: Adjustable, with disposable blade options • Power Supply: 220-240V, 50/60Hz	

Slide Printer	• Print Method: Thermal transfer • Resolution: 300 to 600 dpi • Throughput: Up to 1,000 slides per hour • Connectivity: USB, Ethernet • Power Supply: 220-240V, 50/60Hz	
Pathology Workstation	• Work Surface: Stainless steel with integrated sink and waste disposal • Ventilation: Built-in fume extraction system • Lighting: LED task lighting • Storage: Cabinets and drawers for tools and supplies • Power Supply: 220-240V, 50/60Hz • Safety Features: Splash guards, emergency stop	

MATERNITY & NEONATAL EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Electric Gynecological Beds	• Control: Electric motor with remote control • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Hydraulic Gynecological Beds	• Control: Hydraulic pump system • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Electric/Hydraulic Gynecological Beds	• Control: Combination of electric motor and hydraulic system • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	

Manual Gynecological Beds	• Control: Manual crank • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Electric Delivery Beds	• Control: Electric motor with remote control • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Hydraulic Delivery Beds	• Control: Hydraulic pump system • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Electric/Hydraulic Delivery Beds	• Control: Combination of electric motor and hydraulic system • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	
Manual Gynecological Beds	• Control: Manual crank • Height Adjustment: 450mm to 850mm • Trendelenburg/Reverse Trendelenburg: ±15° • Backrest Adjustment: 0° to 80° • Leg Rest Adjustment: 0° to 45° • Load Capacity: Up to 200 kg • Frame Material: Stainless steel • Mattress: Antimicrobial, waterproof	

Infant Incubator	• Temperature Range: 25°C to 37°C (adjustable) • Humidity Control: 30% to 95% RH • Air Circulation: Low noise, uniform distribution • Alarm System: Temperature, humidity, power failure • Monitor: Digital display of temperature and humidity • Portability: Mounted on wheels, lockable **ACCESSORIES** • Five additional temperature sensors • Two additional air filters	
CTG (Cardiotocograph)	• Display: LCD/TFT screen • FHR Range: 50 to 210 BPM • Contraction Measurement: 0 to 100 units • Paper Speed: 1, 2, 3 cm/min (selectable) • Data Storage: Internal memory and USB interface • Alarm System: High/low fetal heart rate, tachysystole • With trolley **ACCESSORIES** • Two additional TOCO • Two additional foetal heart rate sensor • Two additional SPO2 sensor • Two additional NIBP sensor • Five additional roll of paper • Five additional CTG belt • Five additional gel	
Foetal Doppler	• Frequency: 2 MHz or 3 MHz probe • Display: LCD screen • FHR Range: 50 to 210 BPM • Battery Life: Up to 8 hours continuous use • Audio Output: Built-in speaker and headphone jack • Portability: Handheld, lightweight	
High-End 4D/3D Mobile Ultrasound Machine	• Display: 21-inch high-resolution monitor • Imaging Modes: 2D, 3D, 4D, Doppler • Probes: Convex, linear, endocavitary • Storage: Internal SSD, USB ports • Connectivity: Wi-Fi, Bluetooth, Ethernet • Battery Backup: Up to 4 hours	
High-End 4D/3D Portable Ultrasound Machine	• Display: 15-inch high-resolution monitor • Imaging Modes: 2D, 3D, 4D, Doppler • Probes: Convex, linear, endocavitary • Storage: Internal SSD, USB ports • Connectivity: Wi-Fi, Bluetooth, Ethernet • Battery Backup: Up to 4 hours	

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Basic Ultrasound	• Display: 12-inch LCD monitor • Imaging Modes: 2D, M-Mode • Probes: Convex, linear • Storage: USB port, internal storage • Battery Backup: Up to 3 hours	
Handheld Ultrasound	• Display: Integrated screen or smartphone/tablet interface • Imaging Modes: 2D • Probes: Convex, linear • Connectivity: Wi-Fi, Bluetooth • Battery Backup: Up to 2 hours	
Infant Warmer	• Temperature Range: 25°C to 37°C • Heat Source: Radiant heater • Control: Digital control panel • Alarm System: Over/under temperature • Portability: Mounted on wheels, lockable **ACCESSORIES** • Five additional temperature sensors	
Phototherapy Lamp	• Light Source: LED • Wavelength: 450-470 nm • Irradiance: ≥ 30 µW/cm²/nm • Timer: Digital timer control • Portability: Mounted on wheels, adjustable height	
Gynecological Examination Lamp	• Light Source: LED • Illumination Intensity: 20,000 to 50,000 lux • Colour Temperature: 4,000 to 5,000 Kelvin • Adjustability: Flexible arm, 360-degree rotation • Power Source: AC or rechargeable battery	
Hospital-Grade Breast Pump	• Suction Levels: Adjustable, multiple settings • Power Source: AC adapter or battery • Double Pumping: Yes • Display: LCD screen • Portability: Compact, easy to carry	
Mobile Suction Machine	• Vacuum Range: 0 to 700 mmHg • Flow Rate: 20 to 30 L/min • Canister Capacity: 1 to 2 litres • Portability: Mounted on wheels, lightweight • Power Source: AC adapter, rechargeable battery	
Pediatric Weighing Scale	• Capacity: Up to 20 kg • Accuracy: ±10 grams • Display: Digital LCD • Power Source: Battery or AC adapter • Portability: Lightweight, easy to clean	

Neonatal Weighing Scale	• Capacity: Up to 10 kg • Accuracy: ±5 grams • Display: Digital LCD • Power Source: Battery or AC adapter • Portability: Lightweight, easy to clean	
Hysteroscopy Machine	**1. Hysteroscope:** • **Diameter:** 2.9 mm to 5 mm • **Length:** 300 mm to 350 mm • **Angle of View:** 0°, 12°, 30° • **Field of View:** ≥ 85 degrees • **Illumination:** Fiber optic light transmission • **Material:** Medical grade stainless steel **2. Camera System:** • **Resolution:** Full HD (1080p) or 4K • **Sensor Type:** CMOS • **Frame Rate:** 30 fps to 60 fps • **Zoom:** Optical and digital • **Control:** Integrated control unit with touchscreen interface • **Outputs:** HDMI, DVI, SDI **3. Light Source:** • **Type:** LED or Xenon • **Intensity:** 100,000 to 150,000 lux • **Color Temperature:** 5,500 Kelvin • **Lifetime:** 30,000 hours (LED) • **Control:** Adjustable intensity via control unit **4. Insufflator:** • **Flow Rate:** 0.1 to 1.0 L/min • **Pressure Range:** 0 to 100 mmHg • **Control:** Electronic with digital display • **Safety Features:** Overpressure alarm, automatic pressure release **5. Fluid Management System:** • **Pump Type:** Peristaltic or roller pump • **Flow Rate:** 0 to 1,000 ml/min • **Pressure Range:** 0 to 100 mmHg • **Reservoir Capacity:** 3 to 5 liters • **Control:** Integrated with touchscreen interface • **Safety Features:** Overpressure alarm, automatic shutoff	

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6. Monitor:

- **Size:** 24 inches to 32 inches
- **Resolution:** Full HD (1080p) or 4K
- **Type:** LCD or LED
- **Inputs:** HDMI, DVI, SDI
- **Mounting:** Adjustable arm or stand

7. Recording and Documentation:

- **Storage:** Internal HDD/SSD (500 GB to 1 TB)
- **Format:** JPEG, MPEG-4
- **Interfaces:** USB, Ethernet
- **Software:** Compatible with hospital information systems (HIS)

8. Electrosurgical Unit:

- **Modes:** Monopolar and bipolar
- **Power Output:** 0 to 300 Watts
- **Frequency:** 300 kHz to 1 MHz
- **Safety Features:** Automatic power cut-off, grounding pad monitoring
- **Control:** Footswitch or hand control

9. Accessories:

- **Sheaths:** Diagnostic and operative sheaths with working channels
- **Scissors:** Various types for tissue cutting
- **Graspers:** Different designs for tissue handling
- **Electrodes:** Loop, ball, and needle electrodes for different procedures

10. Power Requirements:

- **Voltage:** 100-240V AC
- **Frequency:** 50/60 Hz
- **Battery Backup:** Optional, with 2-4 hours of **operation**

11. Certifications:

Cystoscopy Machine	**Imaging System:** • **Camera Resolution:** Full HD or 4K • **Light Source:** Xenon or LED • **Optical Zoom:** 10x or higher • **Field of View:** 100° to 140° **Endoscope Specifications:** • **Diameter:** 2.7mm to 4.0mm • **Length:** 300mm to 400mm • **Angle of View:** 0°, 30°, 70°, 90° **Video System:** • **Monitor Size:** 21 to 32 inches • **Resolution:** 1920x1080 (Full HD) or 3840x2160 (4K) • **Image Storage:** Internal hard drive, USB, or external storage **Light Source:** • **Type:** LED or Xenon • **Brightness:** Adjustable, up to 300 watts for Xenon **Insufflation:** • **CO2 Insufflator:** Integrated with adjustable flow rate **Irrigation:** • **Pump Type:** Peristaltic or roller pump • **Flow Rate:** Adjustable, 0.1 to 1.0 L/min **Connectivity:** • **Outputs:** HDMI, DVI, USB • **Network:** Ethernet, Wi-Fi for data transfer and remote monitoring **Power Supply:** • **Voltage:** 100-240V AC, 50/60Hz • **Battery Backup:** Optional, 1-2 hours	

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Colposcopy Machine	**Imaging System:** • **Camera Resolution:** Full HD or 4K • **Magnification:** 3x to 30x optical zoom • **Light Source:** LED • **Color Temperature:** 4,500 to 6,500 Kelvin • **Field of View:** 20mm to 50mm at working distance **Optics:** • **Objective Lens:** f=300mm, variable working distance • **Eyepiece:** 10x to 20x magnification • **Focus:** Manual and motorized options **Video System:** • **Monitor Size:** 21 to 32 inches • **Resolution:** 1920x1080 (Full HD) or 3840x2160 (4K) • **Image Capture:** High-resolution image and video capture • **Image Storage:** Internal hard drive, USB, or external storage **Lighting:** • **Type:** LED with adjustable intensity • **Illumination:** 30,000 to 50,000 lux **Connectivity:** • **Outputs:** HDMI, DVI, USB • **Network:** Ethernet, Wi-Fi for data transfer and remote monitoring **Adjustability:** • **Stand:** Floor stand with height and angle adjustment • **Head:** Tilt, swivel, and rotation adjustments **Power Supply:** • **Voltage:** 100-240V AC, 50/60Hz • **Battery Backup:** Optional, 1-2 hours	

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DENTAL EQUIPMENT

EQUIPMENT	SPECIFICATION	BRAND & MODEL
Dental Chair	• Adjustability: Fully adjustable backrest, seat, and leg rest with hydraulic or electric controls • Weight Capacity: 150-250 kg • Height Adjustment Range: 45-80 cm from the floor • Chair Rotation: 360-degree swivel capability • Armrests: Adjustable and detachable • Headrest: Articulating and adjustable for various patient positions • Control System: Foot pedal or hand control with multiple programmable settings • Material: High-quality, easy-to-clean synthetic leather or vinyl • Integrated Accessories: Built-in LED light, suction system, and instrument tray • Power Supply: AC 110-220V, 50/60Hz	
Dental X-ray	• Type: Intraoral X-ray • X-ray Tube: High-frequency, digital sensor-compatible • Tube Voltage: 60-70 kV • Tube Current: 4-8 mA • Exposure Time: Adjustable, typically 0.1-0.2 seconds • Sensor Type: Digital CCD or CMOS • Control Panel: Digital display with programmable exposure settings • Power Supply: AC 110-220V, 50/60Hz	
OPG X-ray Machine (Orthopantomogram)	• X-ray Tube: Rotating anode tube with collimator • Tube Voltage: 60-80 kV • Tube Current: 4-10 mA • Exposure Time: 10-20 seconds per scan • Sensor Type: Digital or film-based • Field of View: 180-250 mm • Resolution: 1-2 mm pixel size for digital sensors • Control Panel: Touchscreen with programmable exposure settings • Power Supply: AC 220V, 50/60Hz	

Panoramic X-ray Machine	• X-ray Tube: Rotating anode with advanced collimation • Tube Voltage: 60-80 kV • Tube Current: 4-10 mA • Exposure Time: 15-25 seconds per scan • Sensor Type: Digital or film-based • Field of View: 200-300 mm • Resolution: High-resolution digital sensors with ≤1 mm pixel size • Control Panel: Advanced touchscreen interface with automated positioning • Power Supply: AC 220V, 50/60Hz	
Scaler (Micro Motor)	• Type: Ultrasonic scaler • Frequency: 25-30 kHz • Power Output: 10-30 watts • Handpiece: Lightweight, ergonomic, and autoclavable • Water Supply: Adjustable flow with built-in filtration • Control System: Digital with adjustable power and frequency settings • Cable Length: 1.5-2 meters • Power Supply: AC 110-220V, 50/60Hz	

OPHTHALMOLOGY EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Direct Ophthalmoscope	• Magnification: 14x • Illumination Source: LED or Xenon bulb • Light Intensity: Adjustable • Field of View: 8-10 degrees • Lens Selection: Range from -25D to +40D • Adjustable Diopter: ±20D • Weight: Approximately 400-600 grams • Battery Life: 60-100 hours	
Indirect Ophthalmoscope	• Magnification: 3x to 5x • Illumination Source: LED or Xenon bulb • Field of View: 70-90 degrees • Light Intensity: Adjustable • Lens Selection: 20D to 28D • Adjustable Diopter: ±20D • Weight: Approximately 600-800 grams • Battery Life: 60-100 hours	

Slit Lamp	• Magnification: 6x, 10x, 16x, 25x • Light Source: Xenon or LED • Illumination Types: Diffuse, direct, retroillumination, and slit illumination • Slit Width: 0.1 to 20 mm • Slit Length: Up to 15 mm • Slit Angle: Adjustable • Field of View: 12 mm x 16 mm • Filters: Red-free, blue cobalt, and UV filters	
Tonometer	• Type: Applanation, Non-contact, or Contact • Measurement Range: 0-80 mmHg • Accuracy: ±1 mmHg • Readout: Digital display • Calibration: Automated or manual	
Diopter	• Range: -25D to +25D • Resolution: 0.12D • Type: Hand-held or integrated with ophthalmoscope	
Corneal Topography	• Measurement Range: 8 mm to 12 mm corneal diameter • Resolution: 0.1 microns • Data Output: 3D maps, curvature maps, and elevation maps • Data Storage: Internal or external memory options • Calibration: Automated	
Pachymeter	• Measurement Range: 300 to 1,000 microns • Accuracy: ±5 microns • Type: Ultrasound or Optical • Display: Digital readout • Data Storage: Yes	
Retinoscope	• Magnification: 1.0x to 2.0x • Light Source: LED or Halogen • Field of View: 12 degrees • Lens Selection: Range from -25D to +25D • Adjustable Diopter: ±20D • Weight: Approximately 500 grams	
Fundoscope	• Magnification: 10x to 14x • Illumination Source: LED or Xenon • Field of View: 25 degrees • Lens Selection: ±20D • Adjustable Diopter: ±20D	

Perimeter	• Type: Static or Kinetic • Field of View: 30 degrees to 120 degrees • Sensitivity: 0.1 dB to 50 dB • Display: Digital screen • Testing Modes: Threshold, screening, and custom tests • Data Storage: Yes	
Trial Lens Set	• Lens Types: Spherical, cylindrical, and prism lenses • Lens Range: -25D to +25D • Increment: 0.12D or 0.25D • Quantity: Typically 40-60 lenses	
Keratometer	• Measurement Range: 36.0D to 52.0D • Accuracy: ±0.12D • Display: Digital or analog • Data Output: Keratometric readings and maps	
Exophthalmom-eter	• Measurement Range: 15 mm to 30 mm • Accuracy: ±0.5 mm • Type: Manual or Digital • Measurement Units: Millimeters	
B-Scan	• Frequency: 10 MHz to 20 MHz • Resolution: 0.1 mm • Display: Digital or CRT • Measurement Modes: A-scan, B-scan • Data Storage: Yes	
A-Scan	• Frequency: 10 MHz to 20 MHz • Resolution: ±0.1 mm • Measurement Range: 15 mm to 40 mm • Display: Digital readout • Data Storage: Yes	
Visuals YAG III Laser Slit Lamp	• Laser Type: Nd • Wavelength: 1,064 nm • Energy Output: Up to 5 mJ • Pulse Duration: 5-10 nanoseconds • Slit Lamp Integration: Yes • Control: Digital interface	
Visuals Sign, Slit Lamp	• Type: Integrated slit lamp with diagnostic software • Magnification: Up to 25x • Light Source: Xenon or LED • Filters: Blue cobalt, red-free, UV • Data Integration: Digital imaging and analysis	
Laser Slit Lamp	• Laser Type: Argon or YAG • Wavelength: Argon: 488-514 nm, YAG: 1,064 nm • Energy Output: Variable • Control: Digital or manual interface • Slit Lamp Integration: Yes	

Nd Laser	• Wavelength: 1,064 nm • Pulse Duration: 5-10 nanoseconds • Energy Output: Up to 6 mJ • Mode: Continuous or pulsed • Control: Digital interface	
Argon Laser	• Wavelength: 488-514 nm • Energy Output: Variable • Pulse Duration: Continuous or pulsed • Mode: Continuous or pulsed • Control: Digital or manual interface	
Visual YAG III Laser System	• Laser Type: Nd • Wavelength: 1,064 nm • Energy Output: Up to 6 mJ • Pulse Duration: 5-10 nanoseconds • Control: Digital interface with touchscreen	
Laser Photocoagulator	• Laser Type: Argon or Diode • Wavelength: 488-514 nm or 810 nm • Energy Output: Variable • Pulse Duration: Continuous or pulsed • Control: Digital or manual interface	
Vision Chart	• Type: Snellen or LogMAR • Distance: 20 feet (6 meters) • Letters Size: Varying from 20/200 to 20/10 • Mounting: Wall-mounted or free-standing • Material: Paper or digital screen	
Near Vision Test	• Type: Jaeger or Rosenbaum • Distance: 14 inches (35 cm) • Letter Sizes: Varying from J1 to J10 or equivalent	
Vision Test, Automatic	• Type: Automated Visual Field Test • Field of View: 30 degrees to 120 degrees • Sensitivity: 0.1 dB to 50 dB • Data Output: Digital with graphical analysis	
Auto Chart Projector	• Type: Digital or Slide Projector • Chart Types: Snellen, Jaeger, and other vision charts • Projection Distance: 10 feet (3 meters) to 20 feet (6 metres) • Control: Remote or touchscreen interface	
Contact Tonometer	• Measurement Range: 0-80 mmHg • Accuracy: ±1 mmHg • Type: Applanation or Rebound • Display: Digital readout	
Non-Contact Tonometer	• Measurement Range: 0-80 mmHg • Accuracy: ±1 mmHg • Type: Air-Puff or Optical • Display: Digital readout	

Computerised Tonometer	• Measurement Range: 0-80 mmHg • Accuracy: ±1 mmHg • Type: Non-contact or Applanation • Display: Digital readout with data analysis	
Keratometer	• Measurement Range: 36.0D to 52.0D • Accuracy: ±0.12D • Type: Manual or Automated • Display: Digital readout	
Synoptophore	• Type: Stereopsis and Alignment Test • Test Types: Convergence, fusion, and stereopsis • Adjustability: Angles and distances • Measurement Units: Degrees and centimetres	
Trial Lenses, Set	• Lens Types: Spherical, cylindrical, and prism lenses • Lens Range: -25D to +25D • Increment: 0.12D or 0.25D • Quantity: Typically 40-60 lenses	
Lensometer	• Type: Manual or Computerised • Measurement Range: -25D to +25D • Accuracy: ±0.12D • Display: Digital readout	
Computerised Lensmeter	• Type: Automated • Measurement Range: -25D to +25D • Accuracy: ±0.12D • Display: Digital with graphical analysis	
Perimeters	• Type: Static or Kinetic • Field of View: 30 degrees to 120 degrees • Sensitivity: 0.1 dB to 50 dB • Display: Digital screen • Testing Modes: Threshold, screening, and custom tests • Data Storage: Yes	
Eye Refractometer	• Type: Automated or Manual • Measurement Range: -25D to +25D • Accuracy: ±0.12D • Display: Digital readout with data analysis	

PHYSIOTHERAPY EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Traction Bed	• Dimensions: 200 x 90 cm (adjustable) • Weight Capacity: Up to 150 kg • Type: Manual or electric • Adjustable Sections: Head, back, and leg • Material: High-quality orthopaedic foam with durable upholstery • Traction Mechanism: Adjustable pulley system with weights • Safety Features: Locking mechanisms, anti-slip surface	
Electrical Stimulator	• Output Channels: 2-4 channels • Stimulus Type: Biphasic, monophasic, or pulsed • Frequency Range: 1-120 Hz • Pulse Width: 50-400 µs • Intensity Range: 0-100 mA • Modes: TENS, EMS, IFC, Russian • Display: LCD or LED screen • Control: Digital or analog with preset programs	
Ultraviolet Phototherapy Units	• Wavelength Range: 280-320 nm (UVB) • Intensity: Adjustable up to 10,000 µW/cm² • Lamp Type: High-efficiency UV lamps • Timer: Programmable up to 60 minutes • Safety Features: UV shields, automatic shutoff • Size: Portable or fixed installation	
Balancing Board	• Dimensions: 60 x 60 cm • Material: High-strength plastic or wood • Weight Capacity: Up to 120 kg • Adjustability: Adjustable tilt angle • Features: Anti-slip surface, easy-grip handles	
Standing Mirror	• Dimensions: 180 x 60 cm • Material: Shatterproof glass • Frame: Adjustable height and angle • Stand: Stable base with non-slip feet	
Parallel Bar	• Dimensions: 200 x 60 cm • Height Adjustment: 70-120 cm • Material: Steel or aluminium with non-slip surface • Weight Capacity: Up to 150 kg • Features: Adjustable width, safety handrails	

Up Down Stair	• Dimensions: 120 x 60 cm • Step Height: Adjustable, typically 10-30 cm • Material: Non-slip surface • Weight Capacity: Up to 150 kg • Features: Sturdy handrails, anti-slip steps	
Quadriceps Bench	• Dimensions: 120 x 60 cm • Adjustability: Seat and backrest adjustable • Weight Capacity: Up to 150 kg • Material: High-density foam with durable upholstery • Features: Adjustable leg extension, resistance bands	
Cervical, Thoracic & Lumbar Traction with Bed	• Dimensions: 200 x 90 cm (adjustable) • Traction Mechanism: Electric or manual • Weight Capacity: Up to 150 kg • Adjustability: Cervical, thoracic, lumbar sections • Features: Remote control, safety locks	
Tilting Bed	• Dimensions: 200 x 90 cm • Tilting Angle: 0-90 degrees • Weight Capacity: Up to 150 kg • Material: High-quality foam with adjustable sections • Controls: Manual or electric tilt adjustment	
Treadmill, Rehabilitation	• Dimensions: 200 x 80 cm • Speed Range: 0-12 km/h • Incline Range: 0-15% • Weight Capacity: Up to 180 kg • Features: Handrails, digital display, adjustable speed and incline	
Physiotherapy Treatment Table	• Dimensions: 200 x 80 cm • Adjustability: Height, backrest, and leg sections • Weight Capacity: Up to 150 kg • Material: High-density foam with durable upholstery • Features: Electric or manual adjustment, armrests	
Shortwave Therapy, Pulsed and Continuous	• Frequency Range: 27.12 MHz • Output Power: Up to 500 W • Modes: Continuous and pulsed • Applicator Type: Plate or drum • Timer: Programmable up to 30 minutes • Safety Features: Overheat protection, automatic shutoff	

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Microwave Therapy Unit	• Frequency: 2.45 GHz • Output Power: Up to 1,000 W • Applicator Type: Microwave applicator • Timer: Programmable up to 30 minutes • Modes: Continuous and pulsed • Safety Features: Overheat protection, automatic shutoff	
Electrotherapy, Low Frequency	• Frequency Range: 1-1000 Hz • Output Channels: 2-4 channels • Pulse Width: 50-400 µs • Intensity Range: 0-100 mA • Modes: TENS, EMS, IFC • Display: LCD or LED screen	
IR Therapy	• Wavelength Range: 800-1,400 nm • Output Power: Adjustable up to 500 W • Applicator Type: Infrared lamp • Timer: Programmable up to 30 minutes • Features: Adjustable intensity, safety shields	
Table Traction	• Dimensions: 200 x 90 cm • Traction Mechanism: Manual or electric • Weight Capacity: Up to 150 kg • Adjustability: Head and leg sections • Material: High-quality orthopaedic foam	
Phototherapy Lamp	• Wavelength Range: 340-450 nm • Intensity: Adjustable up to 1,000 µW/cm² • Lamp Type: LED or fluorescent • Mobile Stand: Adjustable height and angle • Timer: Programmable up to 30 minutes • 5 Set of Eye Mask protection • Should have a Billulimeter	
Ultrasonic Therapy Apparatus	• Frequency Range: 1-3 MHz • Output Power: Adjustable up to 3 W/cm² • Mode: Continuous or pulsed • Applicator Type: Ultrasonic transducer • Timer: Programmable up to 30 minutes • Safety Features: Overheat protection	
High Frequency Ultrasound (TENS)	• Frequency Range: 2-50 kHz • Output Power: Adjustable • Mode: Continuous or pulsed • Applicator Type: High-frequency ultrasound probe • Timer: Programmable up to 30 minutes	

Special Traction Couch	• Dimensions: 200 x 90 cm • Traction Mechanism: Electric or manual • Weight Capacity: Up to 150 kg • Adjustability: Multiple sections for cervical, thoracic, and lumbar traction • Material: High-density foam with adjustable sections	
Traction Unit for Lumbar and Cervical Traction	• Mechanism: Electric or manual • Weight Capacity: Up to 150 kg • Adjustability: Cervical and lumbar sections • Control: Digital or analog with preset programs • Safety Features: Automatic shutoff, safety locks	
Ultrasound Therapy	• Frequency Range: 1-3 MHz • Output Power: Adjustable up to 3 W/cm² • Mode: Continuous or pulsed • Applicator Type: Ultrasound transducer • Timer: Programmable up to 30 minutes	
TENS Machine	• Output Channels: 2-4 channels • Stimulus Type: Biphasic • Frequency Range: 1-120 Hz • Pulse Width: 50-400 µs • Intensity Range: 0-100 mA • Modes: Various preset programs • Display: LCD or LED screen	
Treatment Table	• Dimensions: 200 x 80 cm • Adjustability: Height, backrest, and leg sections • Weight Capacity: Up to 150 kg • Material: High-density foam with durable upholstery • Features: Electric or manual adjustment, armrests	
Static Bike	• Dimensions: 120 x 60 cm • Resistance Type: Magnetic or friction • Adjustability: Seat and handlebars • Display: LCD with metrics (distance, speed, time, calories) • Weight Capacity: Up to 150 kg • Features: Adjustable resistance, ergonomic design	

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PHARMACY EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Temperature Controller	• Control Range: -50°C to +150°C • Accuracy: ±0.1°C • Resolution: 0.1°C • Display: Digital LCD/LED • Input Types: Thermocouples (J, K, T), RTD (Pt100) • Output Types: Relay, SSR, 4-20mA • Power Supply: 110-240V AC • Alarms: High/low temperature alarms • Communication: RS485, Modbus	
Auto Tablet Counters	• Counting Speed: Up to 1,200 tablets per minute • Accuracy: ±0.5% • Hopper Capacity: 10,000 tablets • Detection: Infrared or optical sensors • Display: Touchscreen interface • Power Supply: 220V AC, 50/60 Hz • Communication: USB, Ethernet, RS232 • Material: Stainless steel 304	
Tablet Counting and Verification System	• Counting Speed: Up to 2,500 tablets per minute • Accuracy: ±0.5% • Hopper Capacity: 20,000 tablets • Detection: High-resolution cameras and sensors • Verification: Automated image analysis and verification • Display: Touchscreen interface • Power Supply: 220V AC, 50/60 Hz • Communication: USB, Ethernet, RS232 • Material: Stainless steel 304	
Manual Tablet Counters	• Counting Speed: Dependent on operator • Accuracy: ±1% • Tray Capacity: 1,000 tablets • Material: Stainless steel or plastic • Dimensions: 200mm x 200mm x 100mm • Weight: 1-2 kg	
Tablet Counting Spoon	• Counting Range: 1-10 tablets • Material: Food-grade plastic or stainless steel • Dimensions: 150mm x 30mm x 20mm • Weight: 50-100 grams • Ergonomics: Easy-grip handle	

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Tablet Cutter or Pill Cutter	• Cutting Mechanism: Stainless steel blade • Material: ABS plastic or aluminium body • Dimensions: 100mm x 40mm x 25mm • Weight: 50-150 grams • Features: Safety lock, pill holding area • Blade Replacement: Replaceable blades	
Walk-In Cooler (2-8°C)	• Temperature Range: 2°C to 8°C • Capacity: 500 to 5,000 liters (customizable) • Cooling System: Forced air refrigeration • Insulation: High-density polyurethane foam • Interior Material: Stainless steel or aluminum • Doors: Self-closing, lockable, with gasket seal • Shelving: Adjustable, stainless steel • Control System: Digital controller with temperature alarm • Power Supply: 220V/50Hz or 110V/60Hz • Lighting: LED internal lighting	

NICU EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
CPAP Machines	• Pressure Range: 4 to 20 cm H2O • Ramp Time: 0 to 45 minutes (adjustable) • Sound Level: < 30 dB • Data Storage: SD card, cloud storage • Humidification: Integrated heated humidifier • Power Supply: 100-240V AC, 12V DC (car adapter) • Display: LCD screen with user-friendly interface • Weight: < 1.5 kg	
Oxygen Blender	• FiO2 Range: 21% to 100% • Flow Range: 0.1 to 30 L/min • Accuracy: ± 3% FiO2 • Alarm: High/low oxygen concentration • Power Supply: 100-240V AC, battery backup • Weight: < 3 kg	

Neonatal Ventilator	• Modes: Volume control, pressure control, synchronised intermittent mandatory ventilation (SIMV), continuous positive airway pressure (CPAP) • Tidal Volume: 2 to 100 mL • Respiratory Rate: 1 to 150 breaths/min • Inspiratory Time: 0.2 to 3 seconds • PEEP: 0 to 20 cm H2O • Power Supply: 100-240V AC, battery backup • Display: 10-inch colour touchscreen • Weight: < 15 kg	
Medical High Flow Device	• Flow Range: 2 to 60 L/min • FiO2 Range: 21% to 100% • Temperature Control: 31°C to 37°C • Humidification: Integrated heated humidifier • Power Supply: 100-240V AC • Display: Digital interface • Weight: < 10 kg	
Mobile Phototherapy Lamp	• Light Source: LED • Wavelength: 450 to 470 nm • Irradiance: ≥ 30 µW/cm²/nm at 30 cm • Adjustability: Height and angle adjustable • Timer: Integrated timer with alarm • Power Supply: 100-240V AC • Weight: < 10 kg	
Mobile Examination Lamp	• Light Source: LED • Illumination Intensity: 40,000 to 80,000 lux • Colour Temperature: 4,500 to 5,000 Kelvin • Adjustability: Height and angle adjustable • Power Supply: 100-240V AC • Weight: < 8 kg	
Feeding Pump	• Flow Rate: 1 to 400 mL/hour • Accuracy: ± 5% • Power Supply: 100-240V AC, battery backup • Display: LCD screen • Alarm: Occlusion, air in line, low battery • Weight: < 2 kg	
Baby Weighing Scale	• Capacity: 0 to 20 kg • Accuracy: ± 5 g • Display: Digital LCD • Power Supply: Battery-operated, 100-240V AC adapter • Weight: < 5 kg	

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Portable Suction Machine	• Vacuum Range: 0 to 700 mmHg • Flow Rate: ≥ 30 L/min • Canister Capacity: 1 to 2 litres • Power Supply: 100-240V AC, battery backup • Weight: < 5 kg	
Mobile Suction Machine	• Vacuum Range: 0 to 700 mmHg • Flow Rate: ≥ 30 L/min • Canister Capacity: 2 to 3 litres • Power Supply: 100-240V AC, battery backup • Weight: < 10 kg	
Infusion Warmer	• Temperature Range: 35°C to 42°C • Flow Rate: Up to 150 mL/min • Power Supply: 100-240V AC • Alarm: High/low temperature • Weight: < 3 kg	
Baby Cradle	• Material: Stainless steel frame with padded mattress • Adjustability: Height and tilt adjustable • Weight Capacity: Up to 20 kg • Mobility: Lockable casters • Weight: < 10 kg	

DIALYSIS EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Dialysis Machine	• Type: Hemodialysis • Blood Flow Rate: 300-600 mL/min • Dialysate Flow Rate: 500-800 mL/min • Ultrafiltration Rate: 0-2 L/hr • Heparin Pump: Programmable, 0.5-10 mL/hr • Alarms: Blood leak, air bubble, pressure, temperature • Dialyzer: High flux, low flux options • Display: 12-inch colour touchscreen • Power Supply: 110-240V AC, 50/60 Hz • Weight: 50-60 kg • Dimensions: 40x40x150 cm	

Dialysis Chair	• Weight Capacity: Up to 150 kg • Reclining Angle: 0-160 degrees • Armrest Adjustment: 180 degrees swivel • Material: Medical-grade, antimicrobial upholstery • Footrest: Adjustable and retractable • Height Adjustment: Electric, 50-75 cm • Accessories: IV pole, side tray, armrests • Power Supply: 110-240V AC, 50/60 Hz • Weight: 40-50 kg • Dimensions: 75x75x120 cm	
Dialysis Weighing Scale	• Type: Digital, wheelchair accessible • Capacity: 250 kg • Accuracy: ±100 g • Platform Size: 80x80 cm • Display: LCD with backlight • Power Supply: Rechargeable battery, 110-240V AC • Connectivity: USB, Bluetooth for data transfer • Weight: 20-30 kg • Dimensions: 100x100x10 cm	
Glucometer	• Measurement Range: 20-600 mg/dL • Accuracy: ±5% • Sample Volume: 0.5 µL • Test Time: 5 seconds • Display: LCD • Memory: 500 test results • Power Supply: Battery (AAA or rechargeable) • Dimensions: 10x6x2 cm • Weight: 50-100 g	
Blood Pressure Monitor	• Type: Automatic, digital • Measurement Range: 0-300 mmHg (pressure), 40-180 bpm (pulse) • Accuracy: ±3 mmHg (pressure), ±5% (pulse) • Cuff Size: Standard (22-32 cm), large (32-42 cm) • Display: LCD with backlight • Memory: 200 readings • Power Supply: Battery (AA or rechargeable), 110-240V AC • Dimensions: 15x10x5 cm • Weight: 300-500 g	
Patient Warmer Machine	• Temperature Range: 32-40°C • Modes: Pre-warm, perioperative, post-operative • Heating Elements: Carbon fiber or silicone rubber • Display: Digital with temperature readout • Safety: Over-temperature cut-off, alarms • Power Supply: 110-240V AC, 50/60 Hz • Weight: 5-10 kg • Dimensions: 30x30x15 cm	

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Hemodialysis System, Complete	• Includes: Dialysis machine, water treatment system, dialyzer, bloodlines, concentrates • Blood Flow Rate: 300-600 mL/min • Dialysate Flow Rate: 500-800 mL/min • Ultrafiltration Rate: 0-2 L/hr • Water Treatment: Reverse osmosis, deionization • Heparin Pump: Programmable, 0.5-10 mL/hr • Alarms: Blood leak, air bubble, pressure, temperature • Display: 12-inch color touchscreen • Power Supply: 110-240V AC, 50/60 Hz • Weight: 50-60 kg • Dimensions: 40x40x150 cm	
Lithotripter (Shock Wave/ Kidney Stone Crusher)	• Type: Extracorporeal Shock Wave Lithotripsy (ESWL) • Energy Source: Electromagnetic, electrohydraulic, or piezoelectric • Shock Wave Frequency: 60-120 per minute • Maximum Energy: 120 Joules • Focus Depth: 0-15 cm • Imaging: Fluoroscopy or ultrasound guidance • Display: 15-inch color monitor • Power Supply: 110-240V AC, 50/60 Hz • Weight: 150-200 kg • Dimensions: 200x100x150 cm	
Lithotripter (Intracorporeal)	• Type: Intracorporeal Lithotripsy • Energy Source: Laser (Holmium, Thulium), pneumatic • Laser Power: 20-100 Watts • Pulse Frequency: 5-20 Hz • Pulse Energy: 0.5-5 Joules • Probe Size: 0.8-1.2 mm • Display: Digital control panel • Power Supply: 110-240V AC, 50/60 Hz • Weight: 20-30 kg • Dimensions: 40x40x100 cm	
Light Source for Laparoscopy, Urology Lithotripter	• Type: Xenon or LED • Light Intensity: 300-500 W • Color Temperature: 5600-6500K • Lifetime: 500-1000 hours (xenon), 20,000-40,000 hours (LED) • Control: Adjustable intensity • Fiber Optic Cable: 3-5 mm diameter, 3-5 meters long • Display: Digital intensity readout • Power Supply: 110-240V AC, 50/60 Hz • Weight: 5-10 kg • Dimensions: 30x30x15 cm	

Carbon Dioxide (CO_2) Supply Machine for Laparoscopy	• Flow Rate: 1-30 L/min • Pressure Range: 0-100 mmHg • Delivery System: Insufflation tubing with filter • Control: Digital with flow and pressure settings • Alarms: Overpressure, low gas, flow rate deviation • Display: LCD with real-time monitoring • Power Supply: 110-240V AC, 50/60 Hz • Weight: 5-10 kg • Dimensions: 40x40x15 cm	
Pump for Laparoscopy and Lithotripter	• Flow Rate: 0.1-1 L/min (laparoscopy), 0.1-5 L/min (lithotripter) • Pressure Range: 0-300 mmHg • Control: Digital with flow and pressure settings • Alarms: Overpressure, flow rate deviation • Display: LCD with real-time monitoring • Power Supply: 110-240V AC, 50/60 Hz • Weight: 5-10 kg • Dimensions: 40x40x15 cm	
Blood Heater, Cooler	• Temperature Range: 4-42°C • Cooling Capacity: 300-600 W • Heating Capacity: 300-600 W • Flow Rate: 0.1-2 L/min • Control: Digital with temperature settings • Alarms: Over-temperature, low flow, temperature deviation • Display: LCD with real-time monitoring • Power Supply: 110-240V AC, 50/60 Hz • Weight: 10-20 kg • Dimensions: 50x40x30 cm	

CSSD EQUIPMENT

EQUIPMENT	SPECIFICATION	BRAND & MODEL
Autoclave 250 Litre	• Capacity: 250 litres • Chamber Dimensions: 600 mm diameter x 1000 mm depth • Sterilisation Temperature: 121°C - 134°C • Sterilisation Time: Adjustable, typically 4 - 60 minutes • Heating Power: 8-10 kW • Voltage: 220V/380V, 50/60Hz • Control System: Microprocessor-based with programmable cycles • Safety Features: Overpressure and overtemperature protection, door safety interlock • Material: Stainless steel (chamber and outer body)	

Autoclave 321 Liter	• Capacity: 321 liters • Chamber Dimensions: 700 mm diameter x 1100 mm depth • Sterilization Temperature: 121°C - 134°C • Sterilization Time: Adjustable, typically 4 - 60 minutes • Heating Power: 10-12 kW • Voltage: 220V/380V, 50/60Hz • Control System: Microprocessor-based with programmable cycles • Safety Features: Overpressure and overtemperature protection, door safety interlock • Material: Stainless steel (chamber and outer body)	
Autoclave 145 Liter	• Capacity: 145 liters • Chamber Dimensions: 500 mm diameter x 800 mm depth • Sterilization Temperature: 121°C - 134°C • Sterilization Time: Adjustable, typically 4 - 60 minutes • Heating Power: 6-8 kW • Voltage: 220V/380V, 50/60Hz • Control System: Microprocessor-based with programmable cycles • Safety Features: Overpressure and overtemperature protection, door safety interlock • Material: Stainless steel (chamber and outer body)	
Horizontal Table Top Autoclave	• Capacity: 24-150 litres (various models) • Chamber Dimensions: Variable based on model • Sterilisation Temperature: 121°C - 134°C • Sterilisation Time: Adjustable, typically 4 - 60 minutes • Heating Power: 2-6 kW • Voltage: 220V, 50/60Hz • Control System: Microprocessor-based with programmable cycles • Safety Features: Overpressure and overtemperature protection, door safety interlock • Material: Stainless steel (chamber and outer body)	
Vertical Table Top Autoclave	• Capacity: 35-150 litres (various models) • Chamber Dimensions: Variable based on model • Sterilisation Temperature: 121°C - 134°C • Sterilisation Time: Adjustable, typically 4 - 60 minutes • Heating Power: 2-6 kW • Voltage: 220V, 50/60Hz • Control System: Microprocessor-based with programmable cycles • Safety Features: Overpressure and overtemperature protection, door safety interlock • Material: Stainless steel (chamber and outer body)	

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Reverse Osmosis Treatment Plant	• Capacity: 100-5000 litres per hour (various models) • Stages: 3-7 stages (pre-filtration, carbon filtration, reverse osmosis membrane, post-filtration) • Membrane Type: Thin Film Composite (TFC) • Recovery Rate: 50-75% • Rejection Rate: 95-99% • Operating Pressure: 10-15 bar • Voltage: 220V/380V, 50/60Hz • Control System: PLC-based control with touch screen interface • Material: Stainless steel and high-quality polymers	
Drums	• Material: Stainless steel or aluminium • Capacity: 5-100 litres (various models) • Dimensions: Variable based on capacity • Closure Type: Clamp or twist lock • Usage: Storage and transport of sterilised instruments • Features: Autoclavable, stackable, with vent holes for steam penetration	
Stainless Steel Table	• Dimensions: Customizable, typically 1200 mm x 600 mm x 850 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish • Features: Adjustable feet, under-shelf for storage, optional castors	
Cleaning Gun	• Type: Air/water spray gun • Material: Stainless steel or high-grade plastic • Pressure: Adjustable, typically 2-6 bar • Nozzle Type: Variable spray patterns • Usage: Cleaning of instruments and surfaces • Features: Ergonomic handle, quick-connect fittings	
High Shelf	• Dimensions: Customizable, typically 1500 mm x 400 mm x 2000 mm • Material: Stainless steel or powder-coated steel • Load Capacity: Up to 100 kg per shelf • Number of Shelves: 4-5 adjustable shelves • Features: Wall-mounted or free-standing, adjustable shelf heights	
Ultrasonic Cleaner	• Capacity: 1-30 liters (various models) • Tank Dimensions: Variable based on capacity • Frequency: 35-45 kHz • Power: 100-1000 W • Heating: Adjustable temperature control (ambient to 80°C) • Timer: Adjustable, typically 0-30 minutes • Material: Stainless steel tank • Control System: Digital or analog controls	

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Basket	• Material: Stainless steel or plastic • Dimensions: Customizable, typically 300 mm x 200 mm x 100 mm • Mesh Size: 2-5 mm • Usage: Holding instruments during cleaning and sterilisation • Features: Stackable, autoclavable, with handles	
MIC Rack	• Material: Stainless steel or anodized aluminium • Capacity: Holds up to 20 instruments • Dimensions: Customizable, typically 400 mm x 300 mm x 100 mm • Usage: Organizing and holding minimally invasive surgical instruments • Features: Removable dividers, autoclavable	
Pouch Sealing Machine	• Sealing Width: 8-12 mm • Sealing Length: Unlimited (continuous sealing) • Temperature Range: Adjustable, typically 100-200°C • Control System: Digital temperature control • Voltage: 220V, 50/60Hz • Material: Stainless steel body • Features: Adjustable speed, integrated cutter	
Rolls and Paper Dispenser	• Material: Stainless steel or high-grade plastic • Capacity: Holds rolls up to 500 mm wide • Dimensions: Customizable • Mounting: Wall-mounted or free-standing • Features: Smooth dispensing mechanism, integrated cutter	
Washer Disinfector Machine	• Capacity: 5-10 DIN trays • Dimensions: Customizable, typically 700 mm x 700 mm x 1500 mm • Cycle Time: Adjustable, typically 20-60 minutes • Temperature Range: 50-95°C • Control System: PLC-based with touch screen interface • Voltage: 220V/380V, 50/60Hz • Material: Stainless steel chamber • Features: Multiple wash programs, HEPA filtration	
Working Table	• Dimensions: Customizable, typically 1200 mm x 600 mm x 850 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish • Features: Adjustable feet, under-shelf for storage, optional castors	

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Washing Endoscopy Table	• Dimensions: Customizable, typically 1500 mm x 700 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish with drainage system • Features: Adjustable feet, integrated sinks, instrument holders	
Washing Table	• Dimensions: Customizable, typically 1500 mm x 700 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish with drainage system • Features: Adjustable feet, integrated sinks, instrument holders	
Central Work Table	• Dimensions: Customizable, typically 1800 mm x 900 mm x 850 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 300 kg • Surface: Smooth, polished finish • Features: Adjustable feet, under-shelf for storage, optional castors	
Levels Flexible Rack	• Material: Stainless steel or powder-coated steel • Capacity: Holds up to 50 kg per level • Dimensions: Customizable, typically 1500 mm x 600 mm x 1800 mm • Number of Levels: 3-5 adjustable levels • Features: Wall-mounted or free-standing, adjustable shelf heights	
Manual Trolley	• Dimensions: Customizable, typically 800 mm x 600 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 150 kg • Number of Shelves: 2-3 • Features: Swivel castors with brakes, ergonomic handles	
Anesthesia Rack	• Material: Stainless steel or powder-coated steel • Capacity: Holds up to 20 kg per shelf • Dimensions: Customizable, typically 1000 mm x 500 mm x 1800 mm • Number of Shelves: 4-5 adjustable shelves • Features: Wall-mounted or free-standing, integrated drawers	

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Packaging Table	• Dimensions: Customizable, typically 1500 mm x 700 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish • Features: Adjustable feet, integrated cutting tools, under-shelf for storage	
Low Clinical Shelf	• Dimensions: Customizable, typically 1500 mm x 400 mm x 1000 mm • Material: Stainless steel or powder-coated steel • Load Capacity: Up to 100 kg per shelf • Number of Shelves: 2-3 adjustable shelves • Features: Wall-mounted or free-standing, adjustable shelf heights	
High Rod Shelf	• Dimensions: Customizable, typically 1500 mm x 400 mm x 2000 mm • Material: Stainless steel or powder-coated steel • Load Capacity: Up to 100 kg per shelf • Number of Shelves: 4-5 adjustable shelves • Features: Wall-mounted or free-standing, adjustable shelf heights, integrated rods for hanging	
Table for Classification of Surgical Textiles	• Dimensions: Customizable, typically 1500 mm x 700 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 200 kg • Surface: Smooth, polished finish • Features: Adjustable feet, under-shelf for storage, integrated sorting bins	
Hermetic Trolley	• Dimensions: Customizable, typically 800 mm x 600 mm x 900 mm • Material: 304 or 316 stainless steel • Load Capacity: Up to 150 kg • Number of Shelves: 2-3 with hermetic seals • Features: Swivel castors with brakes, ergonomic handles, hermetically sealed compartments	

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HOSPITALISATION UNIT EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRANDS & MODEL
Electrocardio-graph (ECG)	• Channels: 12-lead system • Display: 7-inch colour TFT LCD • Sampling Rate: 1,000 samples/second/channel • Frequency Response: 0.05 – 150 Hz • Common Mode Rejection Ratio (CMRR): > 100 dB • Input Impedance: > 10 MΩ • Safety Standards: IEC 60601-1 compliant • Data Storage: Internal memory for at least 200 ECG records • Communication: USB, Wi-Fi, Bluetooth • Battery Life: At least 4 hours of continuous operation • With Trolley and Basket **ACCESSORIES:** • 5 Additional roll of paper • 5 Additional bottle gel • 2 set of Limb electrode • 2 set of chest electrode • 1 Pc of grounding cable	
Mobile Patient Monitor	• Parameters Monitored: ECG, IBP, SpO2, NIBP, temperature, respiratory rate • Display: 10-inch touch screen LCD • Battery Life: Minimum 6 hours • Connectivity: Wi-Fi, Bluetooth, USB ports • Data Storage: 48 hours of trend data • Alarms: Audible and visual alarms with adjustable thresholds • Weight: Less than 3 kg • With a trolley with a basket • Safety Standards: IEC 60601-1 compliant • With Trolley and Basket **Accessories** • Three Additional Spo2 sensor • Three Additional Temperature Sensor • 6 NIBP Cuff (Adult, Ped and Neonate) 2	

Mobile Suction Machine	• Suction Pump Type: Oil-free piston pump • Maximum Suction Pressure: -600 mmHg • Flow Rate: 20 L/min • Collection Jar Capacity: 1,000 ml • Battery Life: At least 2 hours of continuous use • Noise Level: Less than 60 dB • Weight: Less than 5 kg • Power Source: Rechargeable battery and AC power	
Patient Warmer	• Temperature Range: 32°C to 42°C • Heating Modes: Convective warming, direct contact warming • Safety Features: Over-temperature alarm, automatic shutoff • Display: Digital temperature display • Power Supply: 110-240V AC, 50/60Hz • Weight: Less than 10 kg • Accessories: Disposable warming blankets	
Glucometer	• Measurement Range: 10-600 mg/dL • Sample Size: 0.5 µL • Test Time: 5 seconds • Memory Capacity: Stores up to 500 readings • Display: Digital LCD • Power Source: Battery-operated, • Connectivity: Bluetooth for data transfer to mobile apps • Accuracy: ±15% of the laboratory reference value	
Drip Stand	• Material: Stainless steel or aluminium • Height Adjustment: 120 to 210 cm • Number of Hooks: 4 • Base: 5-wheel caster base for stability and mobility • Load Capacity: Up to 10 kg per hook • Weight: Less than 5 kg	
Resuscitation Trolley	• Drawers: Minimum 5 drawers with locks • Top Surface: Defibrillator platform • Oxygen Cylinder Holder: Yes • IV Pole: Adjustable • Wheels: 360-degree swivel with brakes • Material: Stainless steel or high-quality ABS plastic • Accessories: CPR board, sharps container, waste bin	

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Pediatric Resuscitation Trolley	• Drawers: Minimum 5 color-coded drawers • Top Surface: Defibrillator platform • Oxygen Cylinder Holder: Yes • IV Pole: Adjustable • Wheels: 360-degree swivel with brakes • Material: Stainless steel or high-quality ABS plastic • Accessories: Pediatric-sized equipment, CPR board, sharps container, waste bin	
Pressure Mattress	• Type: Alternating pressure mattress • Material: Medical-grade PVC and nylon • Cell Height: 10-12 cm • Pump: Quiet, adjustable pressure pump • Weight Capacity: Up to 150 kg • Dimensions: Standard bed sizes (e.g., 200 x 90 cm) • Cycle Time: 10-12 minutes • Safety Features: Low pressure alarm, CPR valve	
Ward Screen	• Panels: 3 to 5 foldable panels • Material: Powder-coated steel frame, fabric or plastic panels • Height: 150 to 180 cm • Width: 50 cm per panel • Wheels: Lockable castor wheels • Weight: Less than 15 kg	
Mobile X-Ray Machine	• Generator: High-frequency generator • kVp Range: 40-125 kVp • mA Range: 100-300 mA • Battery Life: Minimum 100 exposures per charge • Display: Touch screen control panel • Imaging Area: 14 x 17 inches • Weight: Less than 120 kg • Safety Standards: IEC 60601-1 compliant • Connectivity: Wi-Fi, DICOM compatible	
Cardiac Ultrasound	• Transducers: Phased array, linear array, and convex array • Frequency Range: 1-15 MHz • Display: 15-inch or larger high-resolution LCD • Imaging Modes: 2D, M-mode, Doppler (Color, Pulsed, Continuous Wave) • Battery Life: At least 2 hours of continuous scanning • Data Storage: 500 GB hard drive or higher • Connectivity: USB, DICOM, Wi-Fi • Weight: Less than 10 kg • Safety Standards: IEC 60601-2-37 compliant	

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DERMATOLOGY EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Phototherapy Lamp	• Light Source: LED or fluorescent • Wavelength: 430-490 nm (blue light) • Irradiance: 30-40 μW/cm²/nm • Lamp Life: ≥20,000 hours • Power Consumption: 50-150 W • Adjustability: Height and angle adjustable • Timer: Digital with countdown and alarm • Cooling System: Fan or passive cooling • Safety Features: Overheat protection, automatic shutdown • Dimensions: Variable (portable or stand-mounted)	
Dermatology Bed	• Dimensions: 180-200 cm (length) x 60-80 cm (width) x 50-100 cm (height adjustable) • Load Capacity: ≥200 kg • Adjustment Mechanism: Electric or hydraulic • Material: High-density foam padding, antimicrobial cover • Backrest Adjustment: 0-75 degrees • Legrest Adjustment: 0-45 degrees • Armrests: Removable and adjustable • Height Adjustment: 50-100 cm • Wheels: Lockable castors for mobility • Additional Features: Paper roll holder, face hole	
Wood Lamp	• Light Source: UV-A light • Wavelength: 320-400 nm • Lamp Power: 4-6 W • Lens: Magnifying lens (3-5x) • Housing: Durable plastic or metal • Power Supply: Rechargeable battery or mains power • Weight: ≤1 kg • Dimensions: Portable, handheld device • Safety Features: UV-blocking shield, automatic shut-off • Operating Temperature: 10-40°C	

Cryogen Machine	• Cryogen Type: Liquid nitrogen or CO2 • Operating Temperature: -196°C (liquid nitrogen) or -78°C (CO2) • Cryogen Capacity: 0.5-2 litres • Delivery System: Spray or probe • Control System: Digital temperature and flow control • Safety Features: Pressure relief valve, overpressure protection • Weight: ≤10 kg • Dimensions: Portable or cart-mounted • Power Supply: 110-240 V AC, 50/60 Hz • Accessories: Various applicator tips	
Cautery Machine	• Type: Electrosurgical unit (ESU) • Modes: Monopolar and bipolar • Power Output: 50-300 W (adjustable) • Frequency: 300-500 kHz • Control Interface: Touchscreen or analog knobs • Safety Features: Patient return electrode monitoring, overheat protection • Accessories: Handpieces, foot pedal, various electrodes • Power Supply: 110-240 V AC, 50/60 Hz • Dimensions: Desktop unit or cart-mounted • Weight: ≤10 kg	
Hybeck (Assuming Hybeck is a specific medical equipment; further clarification might be needed)	• Type: Advanced patient bed or examination table • Dimensions: 200 cm (length) x 80 cm (width) x 50-100 cm (height adjustable) • Load Capacity: ≥250 kg • Adjustment Mechanism: Electric with remote control • Material: High-density foam padding, antimicrobial cover • Backrest Adjustment: 0-75 degrees • Leg Rest Adjustment: 0-45 degrees • Height Adjustment: 50-100 cm • Wheels: Lockable castors for mobility • Additional Features: Integrated scale, patient positioning aids	
UV Source	• Light Source: UV-C lamp • Wavelength: 200-280 nm • Lamp Power: 15-60 W • Irradiance: 100-300 µW/cm² • Lamp Life: ≥8,000 hours • Housing: Metal or plastic with UV-resistant coating • Power Supply: 110-240 V AC, 50/60 Hz • Safety Features: Automatic shut-off, protective shielding • Dimensions: Portable or fixed installation • Cooling System: Passive or fan-cooled	

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Electric Dermatome	• Blade Width: 50-100 mm • Cutting Depth: 0.1-1.0 mm (adjustable) • Power Source: Electric motor • Speed: 5,000-10,000 RPM • Control Interface: Digital or analog knobs • Safety Features: Blade guard, automatic shut-off • Power Supply: 110-240 V AC, 50/60 Hz • Weight: ≤2 kg • Dimensions: Handheld device • Accessories: Various blade sizes, sterile covers	
Pneumatic Dermatome	• Blade Width: 50-100 mm • Cutting Depth: 0.1-1.0 mm (adjustable) • Power Source: Compressed air • Operating Pressure: 50-100 psi • Control Interface: Manual depth control • Safety Features: Blade guard, automatic shut-off • Weight: ≤2 kg • Dimensions: Handheld device • Air Hose Length: 1.5-3 meters • Accessories: Various blade sizes, sterile covers	

IMAGING EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Fixed Digital X-Ray Machine	• Generator Power: 50-80 kW • Tube Voltage: 40-150 kVp • Tube Current: Up to 500 mA • Detector Type: Flat panel detector (FPD), typically Cesium Iodide (CsI) or Amorphous Silicon (a-Si) • Detector Size: 17x17 inches or 14x17 inches • Pixel Pitch: ≤ 150 µm • Image Processing: Advanced image enhancement, noise reduction, and dynamic range compression • Patient Table: Motorized with floating top, weight capacity up to 300 kg • Exposure Control: Automatic Exposure Control (AEC) with multi-chamber ionization • Display Monitor: High-resolution medical-grade monitors, typically 3MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Digital stitching, dual energy imaging, tomosynthesis (optional)	

Mobile Digital X-Ray Machine	• Generator Power: 20-40 kW • Tube Voltage: 40-120 kVp • Tube Current: Up to 300 mA • Detector Type: Flat panel detector (FPD), typically Cesium Iodide (CsI) or Amorphous Silicon (a-Si) • Detector Size: 14x17 inches or 11x14 inches • Pixel Pitch: ≤ 150 µm • Battery Life: Sufficient for 200-300 exposures per charge • Mobility: Easy maneuverability with large wheels, lightweight design • Display Monitor: Integrated touchscreen control panel, high resolution • Connectivity: DICOM 3.0 compliant, Wi-Fi enabled for PACS integration • Software Features: Image preview, grid detection, exposure index, image stitching (optional)	
Fluoroscopy Machine	• Generator Power: 50-100 kW • Tube Voltage: 40-150 kVp • Tube Current: Continuous and pulsed fluoroscopy modes, up to 10 mA for continuous, up to 500 mA for pulsed • Detector Type: Flat panel detector (FPD) or Image Intensifier • Detector Size: 12x12 inches or 17x17 inches • Frame Rate: Up to 30 fps • Image Processing: Real-time image enhancement, noise reduction, motion artifact correction • Patient Table: Motorized with tilting capability, weight capacity up to 250 kg • Display Monitor: Dual high-resolution monitors, typically 2MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Digital subtraction angiography (DSA), cine loop, roadmap function	

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Mammography	• Generator Power: 5-10 kW • Tube Voltage: 20-49 kVp • Tube Current: Up to 200 mA • Detector Type: Direct digital detectors, typically Amorphous Selenium (a-Se) or Cesium Iodide (CsI) • Detector Size: 24x30 cm or 18x24 cm • Pixel Pitch: ≤ 70 µm • Compression Force: Adjustable, up to 200 N • Image Processing: Advanced image enhancement, breast density analysis, CAD (Computer-Aided Detection) • Display Monitor: High-resolution medical-grade monitors, typically 5MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Tomosynthesis, synthetic 2D imaging, dual-energy contrast mammography (optional)	
CT-Scan	• Slices: 16 to 128 slices or more • Generator Power: 50-100 kW • Tube Voltage: 80-140 kVp, adjustable • Tube Current: Up to 800 mA • Rotation Time: 0.3 to 1.0 seconds per rotation • Detector Type: Solid-state detector arrays • Pixel Size: ≤ 0.5 mm • Image Reconstruction: Iterative reconstruction, advanced noise reduction • Patient Table: Motorized, weight capacity up to 227 kg, large bore (70 cm or more) • Display Monitor: High-resolution medical-grade monitors, typically 2MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Cardiac imaging, perfusion studies, virtual colonoscopy, 3D rendering	

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C-Arm Machine (Monoblock/ Rotating Anode)	• Generator Power: 15-25 kW • Tube Voltage: 40-120 kVp • Tube Current: Up to 20 mA for continuous, up to 200 mA for pulsed • Detector Type: Flat panel detector (FPD) or Image Intensifier • Detector Size: 9 inches or 12 inches • Pixel Pitch: ≤ 150 µm • C-Arm Movement: Motorized or manual, large range of motion for various angles • Image Processing: Real-time image enhancement, noise reduction, motion artifact correction • Display Monitor: Dual high-resolution monitors, typically 1MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Digital subtraction angiography (DSA), fluoroscopic cine loop, last image hold	
C-Arm, Digital X-Ray Machine	• Generator Power: 15-25 kW • Tube Voltage: 40-120 kVp • Tube Current: Up to 20 mA for continuous, up to 200 mA for pulsed • Detector Type: Flat panel detector (FPD) or Image Intensifier • Detector Size: 9 inches or 12 inches • Pixel Pitch: ≤ 150 µm • C-Arm Movement: Motorised or manual, large range of motion for various angles • Image Processing: Real-time image enhancement, noise reduction, motion artefact correction • Display Monitor: Dual high-resolution monitors, typically 1MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Software Features: Digital subtraction angiography (DSA), fluoroscopic cine loop, last image hold	

1. Magnet System

- **Magnetic Field Strength**: 1.5 Tesla (T) or 3.0 Tesla (T) (commonly used in clinical settings; higher Tesla options exist for research)
- **Magnet Type**: Superconducting
- **Magnet Homogeneity**: < 3ppm over a 40cm DSV (Diameter of Spherical Volume)
- **Magnet Bore Diameter**: 60-70 cm (for standard clinical models)
- **Helium Capacity**: Zero boil-off technology (optional for modern systems)

2. Gradient System

- **Gradient Amplitude**: 33 mT/m to 80 mT/m (millitesla per meter)
- **Gradient Slew Rate**: 120-200 T/m/s (Tesla per meter per second)
- **Gradient Linearity**: ±5% over a 40cm DSV
- **Duty Cycle**: 100% (to allow continuous scanning without overheating)

3. RF (Radiofrequency) System

- **RF Power**: 15 kW to 30 kW (depending on system requirements)
- **RF Receiver Channels**: 16 to 128 (or higher for advanced models, enabling high-resolution imaging)
- **RF Transmit Coil**: Integrated body coil or dedicated transmit/receive head coils for specific applications

4. Imaging Specifications

- **Spatial Resolution**: Sub-millimeter resolution, typically 1 mm or better for most clinical applications
- **Imaging Field of View (FOV)**: 45 cm to 50 cm
- **Slice Thickness**: Adjustable from 0.5 mm to 10 mm
- **Maximum Number of Slices**: 512 or more per acquisition

MRI	• **Imaging Sequences**: T1-weighted, T2-weighted, Proton Density (PD), Diffusion-Weighted Imaging (DWI), Functional MRI (fMRI), etc. **5. Cooling System** • **Cooling Type**: Helium-cooled with closed-loop cryocoolers • **Operating Temperature**: 4.2 K (Kelvin) for superconducting magnets **6. Patient Table** • **Weight Capacity**: 200 kg to 250 kg • **Motorized Table Movement**: Horizontal and vertical adjustment with automatic positioning • **Patient Comfort**: Noise-reducing acoustic design, audio system for communication, and a patient-friendly interface **7. Software and Workstation** • **Imaging Software**: Advanced software for imaging sequences like fMRI, MRA (Magnetic Resonance Angiography), MRCP (Magnetic Resonance Cholangiopancreatography), DTI (Diffusion Tensor Imaging) • **Post-Processing Software**: 3D rendering, volumetric analysis, segmentation, and quantification tools • **User Interface**: Touchscreen-based graphical interface, with customizable presets for different protocols • **Data Storage**: Minimum 1 TB storage, DICOM-compatible **8. Safety and Compliance** • **Safety Standards**: ISO 13485, CE Marking (for European market), FDA Approval (for the U.S. market) • **SAR (Specific Absorption Rate)**: Regulatory compliance to minimize patient heating • **EMI (Electromagnetic Interference)**: Shielding compliance to reduce RF interference	

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9. Power Requirements

- **Power Supply**: 400V AC, 50/60 Hz, 3-phase
- **Power Consumption**: 30 kW to 50 kW depending on system

10. Accessories and Additional Features

- **Coil Options**: Head, Spine, Knee, Breast, Cardiac, and Body Coils (multi-array)
- **Peripheral Devices**: MRI-compatible anesthesia machines, contrast injectors, and patient monitoring equipment
- **Emergency Quench Button**: Safety feature to stop the magnetic field in case of emergency

11. Installation Requirements

- **Room Size**: Minimum 25 m² to 30 m² for the MRI scanner room, with shielding and RF isolation
- **RF Shielding**: Faraday cage with appropriate grounding to avoid external interference
- **Ventilation and Climate Control**: Temperature-controlled room for consistent magnet performance

INTERVENTIONAL RADIOLOGY	**A. Fluoroscopy System:** • **Type:** Fixed C-arm or Biplane fluoroscopy system. • **X-ray Tube Voltage:** 40–125 kVp. • **Frame Rate:** 30–60 frames per second. • **Image Detector:** Flat panel detector, high-resolution (≥1024x1024 pixels). • **Field of View:** Multiple options (e.g., 15, 20, 30 cm). • **Contrast Resolution:** ≥2% at 0.5 mm. • **Dose Monitoring:** Automatic Dose Rate Control (ADRC) for patient safety. • **Rotation Angle Range:** ±180° for lateral and cranio-caudal projections. • **Software:** DICOM-compliant, 3D image reconstruction, digital subtraction angiography (DSA). **B. Ultrasound Equipment:** • **Type:** Intravascular Ultrasound (IVUS) or Peripheral IVUS. • **Frequency:** 20–60 MHz. • **Image Depth:** 5–150 mm. • **Resolution:** Axial resolution of ≥100 µm. • **Monitor:** High-resolution monitor with touch control. • **3D Reconstruction:** Available for vessel lumen and wall visualization. **2. Catheterization Equipment** **A. Electrophysiology (EP) Monitoring System:** • **Channels:** ≥64 channels for simultaneous mapping and recording. • **Mapping Resolution:** ≤1 mm precision. • **Catheter Connectivity:** Universal ports for multiple catheter types. • **ECG Monitoring:** Real-time 12-lead ECG with signal averaging capabilities. • **Data Storage:** High-capacity storage for long procedures.	

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B. Hemodynamic Monitoring System:

- **Pressure Measurement:** Invasive blood pressure monitoring (IBP) with catheter-tip pressure transducers.
- **CO2 Monitoring:** Side-stream capnography with adjustable sampling rate.
- **Oxygen Saturation Monitoring:** Dual-wavelength pulse oximetry.
- **Data Display:** Real-time monitoring with customizable display options.

3. Supportive Infrastructure

A. Radiation Shielding:

- **Walls and Ceiling:** Lead-lined with a minimum thickness of 2 mm Pb.
- **Lead Glass Windows:** ≥2 mm Pb equivalent.
- **Radiation Protection Screens:** Movable screens for staff protection.

B. Air Conditioning and Ventilation:

- **HVAC System:** Laminar air flow with HEPA filters.
- **Temperature Control:** 18–24°C with 40–60% humidity.
- **Ventilation Rate:** Minimum 15 air changes per hour.

4. Digital and IT Systems

A. PACS (Picture Archiving and Communication System):

- **Storage Capacity:** ≥5 TB with data backup.
- **Data Transfer Rate:** High-speed Ethernet connectivity (≥1 Gbps).
- **Compatibility:** DICOM 3.0 compliant with multi-vendor integration support.
- **Workstations:** Dual-monitor setup with a minimum 24-inch, 4K resolution display.
- **3D Image Processing Software:** For vessel segmentation and volumetric analysis.

B. Hospital Information System (HIS) Integration:

- **Connectivity:** HL7 interface for seamless integration with HIS/EMR systems.
- **Patient Data Management:** Real-time access to patient records, imaging, and laboratory results.

5. Catheters and Consumables:

A. Diagnostic Catheters:

- **Types:** Angiography catheters (e.g., Judkins, Amplatz).
- **Length:** 40–110 cm.
- **Diameters:** 4–7 French (Fr).

B. Guidewires:

- **Length:** 145–300 cm.
- **Core Material:** Stainless steel or nitinol core.
- **Coating:** Hydrophilic coating for low friction and ease of navigation.

C. Sheaths:

- **Diameter:** 4–10 Fr.
- **Length:** 10–30 cm.
- **Material:** Teflon, PTFE for smooth insertion.

6. Ancillary Equipment

A. Contrast Injectors:

- **Type:** Programmable dual-head injector.
- **Flow Rate:** 1–40 mL/s.
- **Pressure Range:** Up to 1200 psi.
- **Safety Features:** Automatic pressure cutoff and air detection system.

B. Patient Monitoring Systems:

- **Vital Signs Monitoring:** ECG, IBP, SPO2, capnography, and NIBP.
- **Alarms:** Configurable thresholds with audio/visual alarms.

	• **Data Logging:** Continuous data recording for post-procedure review. **7. Workstation and Layout** **A. Workstation Ergonomics:** • **Height-Adjustable Tables:** For clinician comfort during long procedures. • **Monitor Suspension:** Ceiling-mounted with multi-angle rotation. **B. Control Room Setup:** • **Room Dimensions:** 9x9 meters for the procedure room, with a separate control room. • **Noise Reduction:** Soundproofing between control and procedure rooms. • **Lighting:** Adjustable dimmable lighting for optimal visualization. **8. Safety and Regulatory Compliance** **A. Certification:** • All equipment should comply with CE, FDA, or other relevant certifications. **B. Emergency Power Backup:** • **Type:** Uninterruptible Power Supply (UPS) or generator. • **Du**ration: ≥30 minutes battery backup for essential systems.	
Bone Densitometer	• Technology: Dual-energy X-ray absorptiometry (DXA) • X-Ray Source: Dual-energy X-ray, typically 70-100 kVp and 140-150 kVp • Detector Type: Solid-state detectors • Scanning Time: Typically 1-5 minutes per site • Measurement Sites: Spine, hip, forearm, total body • Precision: Coefficient of variation (CV) ≤ 1% • Software Features: Bone mineral density (BMD) analysis, fracture risk assessment, body composition analysis • Display Monitor: High-resolution medical-grade monitors, typically 1MP or higher • Connectivity: DICOM 3.0 compliant, PACS integration • Patient Table: Motorised with adjustable height, weight capacity up to 200 kg	

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ENT EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
ENT Consultation Chair	• Height Adjustment Range: 500 - 1000 mm • Seat Rotation: 360 degrees • Backrest Tilt Angle: 0 - 90 degrees • Leg Rest Adjustment: 0 - 90 degrees • Arm Rest: Adjustable and removable • Weight Capacity: 150 kg • Upholstery Material: Anti-microbial, easy-to-clean synthetic leather • Control System: Footswitch or remote control • Power Supply: 110-240V, 50/60Hz • Additional Features: Integrated LED light, headrest adjustment, optional heating and massage functions	
Otoscope	• Magnification: 3x or higher • Illumination: LED or Halogen light source • Fiber Optic Illumination: Yes • Lens: Scratch-resistant glass • Viewing Window: Swiveling, with 3x magnification • Battery: Rechargeable lithium-ion • Handle: Ergonomic, anti-slip grip • Specula Sizes: Various sizes (2.5mm, 3mm, 4mm, 5mm) • Operating Time: 3-4 hours continuous use on a full charge • Weight: Approximately 100 grams • Optional Features: Digital display, wireless connectivity for image transfer	
Audiometer	• Frequency Range: 125 Hz - 8000 Hz • Intensity Range: -10 dB HL to 120 dB HL • Test Types: Air conduction, bone conduction, speech audiometry • Display: LCD or touch screen • Connectivity: USB, Bluetooth for data transfer • Power Supply: Mains power or rechargeable battery • Calibration: Automatic and manual options • Memory Storage: Capacity for storing at least 100 patient test results • Dimensions: Approximately 350 x 250 x 100 mm • Weight: 2.5 kg	

Tympanometer	• Probe Tone: 226 Hz • Pressure Range: +200 to -400 daPa • Compliance Range: 0.1 to 3.0 ml • Test Types: Tympanometry, reflex measurements • Display: Color touch screen • Printer: Built-in thermal printer • Memory: Internal memory for storing test results • Power Supply: AC 100-240V, 50/60Hz • Dimensions: 300 x 200 x 100 mm • Weight: 1.5 kg • Optional Features: High-frequency probe tone, PC connectivity	
Ear Washer	• Water Pressure: Adjustable, 0-30 psi • Water Temperature: Adjustable, 37°C (body temperature) • Water Reservoir Capacity: 500 ml • Nozzle Types: Various sizes for different ear canal sizes • Power Supply: Rechargeable battery or mains power • Weight: Approximately 200 grams • Dimensions: 150 x 70 x 50 mm • Safety Features: Auto shut-off, pressure relief valve • Additional Features: LED light for better visibility	
Headlight	• Light Source: LED • Illumination Intensity: Adjustable, 10,000 - 40,000 lux • Color Temperature: 5500K (daylight) • Battery Life: Up to 8 hours on a full charge • Weight: Less than 200 grams • Headband: Adjustable, comfortable padding • Beam Diameter: Adjustable, 10 - 100 mm at 40 cm working distance • Recharge Time: Approximately 3 hours • Power Supply: Rechargeable lithium-ion battery • Optional Features: Wireless battery pack, integrated camera for video recording	

CARDIOLOGY EQUIPMENT

EQUIPMENT	SPECIFICATION	BRAND & MODEL
Cardio Treadmill	• Speed Range: 0.1 to 12 mph (0.1 to 19.3 km/h) • Incline Range: 0% to 25% • Running Surface: 22" x 60" (56 cm x 152 cm) • User Weight Capacity: Up to 400 lbs (181 kg) • Heart Rate Monitoring: Integrated heart rate monitor with chest strap compatibility • Display Console: LCD/LED display with touch screen capability • Programs: Pre-set and customizable workout programs • Safety Features: Emergency stop button, handrails, and fall detection • Connectivity: USB ports, Bluetooth, and Wi-Fi • Power Requirements: 110V-240V, 50-60Hz	
Exercise Stress EKG Machine	• Leads: 12-lead EKG • Sampling Rate: Minimum 1000 Hz per channel • Display: High-resolution colour touchscreen display (minimum 10 inches) • Storage: Internal storage for up to 1000 EKGs, expandable via USB or SD card • Connectivity: USB, Bluetooth, and Wi-Fi for data transfer • Battery Life: Minimum 8 hours of continuous operation • Software Features: Arrhythmia detection, ST-segment analysis, real-time data display, and post-test analysis • Patient Database: Integrated patient management system with secure login • Compatibility: Compatible with cardio treadmills and ergometers • Power Requirements: 110V-240V, 50-60Hz	

Adult and Pediatric Holter Monitors	• Channels: 3 to 12 channels • Recording Duration: 24 to 48 hours • Sampling Rate: Minimum 1000 Hz per channel • Memory: 8GB internal memory or higher • Display: Small, user-friendly LCD display • Battery: Rechargeable lithium-ion battery with a minimum 48-hour life • Weight: Less than 150 grams • Dimensions: Compact size (less than 4" x 3" x 1") • Software: Automated analysis software for arrhythmia detection and ST-segment analysis • Patient Interface: Simple interface for patients with event marker button • Connectivity: USB, Bluetooth, and Wi-Fi for data transfer • Electrodes: High-quality, hypoallergenic electrodes for continuous recording	
Transesophageal Echocardio-grams (TEE)	• Probe Types: Multiplane and biplane TEE probes • Frequency: 5-7 MHz for adult probes, 7-10 MHz for paediatric probes • Imaging Modes: 2D, 3D, M-mode, Doppler (Color, Spectral), and Tissue Harmonic Imaging • Depth of Penetration: Up to 15 cm • Resolution: High resolution with a minimum of 1280 x 1024 pixels display • Control Console: High-resolution touchscreen display with ergonomic control panel • Software Features: Real-time 3D imaging, strain imaging, and automated measurements • Data Storage: Integrated storage with a capacity for at least 1000 studies, expandable via USB or network storage • Connectivity: USB, Ethernet, Wi-Fi for data transfer and remote consultation • Battery Backup: Minimum 2 hours of operation on battery • Sterilization: Compatible with high-level disinfection and sterilization procedures • Portability: Mobile cart with lockable wheels for easy transport	

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OXYGEN ACCESSORIES

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Oxygen Analyzer (Ultrasonic)	• Measurement Range: 0-100% Oxygen • Accuracy: ±1% of reading • Resolution: 0.1% • Response Time: ≤15 seconds • Operating Temperature: 0°C to 50°C • Power Supply: Rechargeable battery or AC adapter • Display: Digital LCD • Output: RS232 or USB for data logging • Alarms: High/low oxygen concentration, battery low • Dimensions: Portable, handheld design • Weight: <500 grams	
Oxygen Concentrator (10 LPM)	• Flow Rate: 0.5-10 LPM (Liters Per Minute) • Oxygen Concentration: 93% ±3% • Output Pressure: 5-10 psi • Noise Level: <50 dB(A) • Power Consumption: 600W • Weight: 27-30 kg • Dimensions: 70 cm (H) x 45 cm (W) x 35 cm (D) • Alarms: Low oxygen concentration, power failure, high temperature • Operating Temperature: 10°C to 40°C • Humidity Range: Up to 90% RH non-condensing	
Hand-held Pulse Oximeter	• Measurement Range: SpO2: 0-100%, Pulse Rate: 30-250 bpm • Accuracy: SpO2: ±2%, Pulse Rate: ±1 bpm • Display: OLED or LCD • Power Supply: Rechargeable battery or AAA batteries • Battery Life: >20 hours continuous use • Weight: <100 grams • Dimensions: Portable, handheld design • Alarms: Low SpO2, low battery, sensor off • Data Storage: Internal memory or connectivity for data transfer	

Oxygen Cylinder 10 L	• Capacity: 10 liters • Material: Seamless steel or aluminum alloy • Working Pressure: 150-200 bar • Test Pressure: 250-300 bar • Valve Type: Pin index valve or bullnose valve • Dimensions: Approximately 15 cm diameter, 90 cm height • Weight: 14-18 kg • Certification: ISO, CE • Color: International oxygen color code (white or green)	
Oxygen Cylinder 50 L	• Capacity: 50 liters • Material: Seamless steel • Working Pressure: 150-200 bar • Test Pressure: 250-300 bar • Valve Type: Bullnose valve • Dimensions: Approximately 23 cm diameter, 160 cm height • Weight: 50-60 kg • Certification: ISO, CE • Color: International oxygen color code (white or green)	
Oxygen Flowmeter with Humidifier	• Flow Range: 0-15 LPM • Accuracy: ±0.5 LPM • Humidifier Bottle Capacity: 200 ml • Pressure Range: 50-60 psi • Material: Medical-grade polycarbonate and brass • Connections: 1/8" or 1/4" NPT/BSP inlet and outlet • Safety Features: Safety relief valve • Dimensions: Standard flowmeter size • Weight: <1 kg	
Oxygen Regulator with Humidifier	• Input Pressure: 200 bar • Output Pressure: 50 psi • Flow Range: 0-15 LPM • Humidifier Bottle Capacity: 200 ml • Material: Brass body with chrome plating, polycarbonate bottle • Safety Features: Pressure relief valve • Dimensions: Standard regulator size • Weight: 1.5-2 kg • Connection Type: CGA540 or DIN type	

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Oxygen Flowmeters with Humidifier	• Flow Range: 0-15 LPM • Accuracy: ±0.5 LPM • Humidifier Bottle Capacity: 200 ml • Pressure Range: 50-60 psi • Material: Medical-grade polycarbonate and brass • Connections: 1/8" or 1/4" NPT/BSP inlet and outlet • Safety Features: Safety relief valve • Dimensions: Standard flowmeter size • Weight: <1 kg	
Surgical Pendant Movable Ceiling Pendant	• Load Capacity: 100-150 kg • Rotation Angle: 340-360 degrees • Number of Arms: Single or double arm • Gas Outlets: 2-6 outlets for various medical gases • Electrical Outlets: 4-8 outlets • Integration: With monitors, IV poles, shelves, and drawers • Material: Aluminium alloy • Dimensions: Customizable as per room size • Weight: Depends on configuration • Certification: ISO, CE	
Medical Bedhead Unit	• Materials: Anodized aluminum or powder-coated steel • Electrical Outlets: 4-8 outlets • Gas Outlets: 2-6 outlets for various medical gases • Lighting: Reading light and night light • Dimensions: Customizable length and height • Weight: Depends on configuration • Safety Standards: ISO, CE • Integration: Nurse call system, data ports	
Automatic Oxygen Distribution Manifold	• Input Pressure: 200 bar • Output Pressure: 50 psi • Flow Capacity: 100-200 LPM • Alarm System: Low/high pressure alarms, system failure alarm • Material: Stainless steel manifold • Dimensions: Based on the number of cylinders • Weight: Varies with configuration • Safety Features: Pressure relief valves, non-return valves • Control System: PLC-based with HMI • Certification: ISO, CE	

Duplex Vacuum Pump Suction System	• Capacity: 20-100 m³/hr • Vacuum Level: -650 to -700 mmHg • Number of Pumps: 2 (duplex system) • Pump Type: Oil-lubricated or oil-free rotary vane • Motor Power: 2-5 HP each • Control System: Automatic alternation control • Material: Stainless steel and aluminum components • Dimensions: Varies with capacity • Weight: Varies with configuration • Certification: ISO, CE	
Medical Grade Copper Pipes with Fittings and Fixtures	• Material: Medical-grade copper, phosphorus deoxidized, non-arsenical (C106) • Size Range: 10mm to 54mm diameter • Wall Thickness: 0.6mm to 1.2mm • Fittings: Copper, brass, or bronze • Compliance: BS EN 13348 or equivalent standards • Certification: ISO, CE • Coating: Anti-microbial coating available • Testing: 100% pressure tested	
Vacuum Regulator	• Vacuum Range: 0-760 mmHg • Accuracy: ±5% of reading • Control Type: Needle valve control • Material: Polycarbonate housing, brass internal components • Connection: DISS or other standard connections • Dimensions: Handheld or wall-mounted • Weight: <1 kg • Safety Features: Pressure relief valve • Certification: ISO, CE	
Medical Gases Alarm System with Area Service Valves	• Display: Digital LED or LCD • Number of Gases Monitored: 2-6 gases • Alarm Types: High/low pressure, system failure • Connectivity: RS485 or Ethernet for network integration • Power Supply: 110-240V AC • Material: ABS or metal housing • Dimensions: Standard wall-mounted unit • Weight: <2 kg • Compliance: NFPA 99, HTM 02-01 • Area Service Valves: Ball valve type with ISO or CE certification	

Gas Flow Analyzer	• Measurement Range: 0-100 LPM • Accuracy: ±2% of reading • Display: Digital LCD • Power Supply: Rechargeable battery or AC adapter • Data Storage: Internal memory or USB connectivity • Dimensions: Portable, handheld design • Weight: <1 kg • Operating Temperature: 10°C to 40°C • Humidity Range: Up to 90% RH non-condensing • Certification: ISO, CE	
Cylinder Filling Compressor (10 Nm^3)	• Capacity: 10 Nm^3/hr • Pressure: 200-300 bar • Motor Power: 7.5	

LAUNDRY EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Washing Machine 50kg	• Capacity: 50 kg • Drum Volume: 500 liters • Spin Speed: 800-1000 RPM • G-Force: 350-400 G • Power Supply: 400V / 50Hz / 3 Phase • Water Consumption: 15-20 liters/kg • Heating Options: Electric, Steam, or Gas • Control System: Programmable microprocessor with multiple wash cycles • Dimensions: 1500 x 1500 x 2000 mm • Weight: 1000 kg • Material: Stainless steel drum and housing • Safety Features: Door lock during operation, emergency stop button	

Washing Machine 100kg	• Capacity: 100 kg • Drum Volume: 1000 liters • Spin Speed: 750-900 RPM • G-Force: 350-400 G • Power Supply: 400V / 50Hz / 3 Phase • Water Consumption: 15-20 liters/kg • Heating Options: Electric, Steam, or Gas • Control System: Programmable microprocessor with multiple wash cycles • Dimensions: 2000 x 2000 x 2200 mm • Weight: 1500 kg • Material: Stainless steel drum and housing • Safety Features: Door lock during operation, emergency stop button	
Dryer	• Capacity: 50-100 kg • Drum Volume: 800-1500 liters • Power Supply: 400V / 50Hz / 3 Phase • Heating Options: Electric, Steam, or Gas • Control System: Programmable microprocessor with multiple drying cycles • Airflow: High-efficiency axial airflow • Drying Time: Adjustable (typically 30-45 minutes) • Dimensions: 1500 x 1500 x 2000 mm • Weight: 800 kg • Material: Stainless steel drum and housing • Safety Features: Overheat protection, lint filter indicator, emergency stop button	
Ironer	• Roll Diameter: 500 mm • Roll Length: 2000 mm • Ironing Speed: 1-10 m/min • Heating Options: Electric, Steam, or Gas • Power Supply: 400V / 50Hz / 3 Phase • Control System: Programmable microprocessor with temperature and speed control • Dimensions: 3000 x 1200 x 1500 mm • Weight: 1000 kg • Material: Polished steel roller, stainless steel housing • Safety Features: Finger guard, emergency stop button	

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Sewing Machine	• Type: Industrial sewing machine • Stitch Type: Lockstitch • Max Sewing Speed: 5000 stitches per minute • Stitch Length: 0-5 mm adjustable • Needle System: Single or double needle • Power Supply: 220V / 50Hz / 1 Phase • Control System: Mechanical or computerized with programmable settings • Dimensions: 600 x 400 x 500 mm • Weight: 50 kg • Material: Heavy-duty metal frame • Safety Features: Needle guard, emergency stop button	
Transport Trolley	• Capacity: 150-200 kg • Dimensions: 1200 x 600 x 1000 mm • Material: Stainless steel or coated steel frame with heavy-duty wheels • Wheels: Swivel and fixed castors, with or without brakes • Shelves: Adjustable or fixed • Safety Features: Anti-tip design, ergonomic handle	
Washroom Trolley	• Capacity: 100-150 kg • Dimensions: 1000 x 500 x 1200 mm • Material: Stainless steel or coated steel frame with plastic or metal bins • Wheels: Swivel and fixed castors, with or without brakes • Compartments: Multiple compartments for segregation of clean and soiled items • Safety Features: Anti-tip design, ergonomic handles, easy-to-clean surfaces	

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MORTUARY EQUIPMENT

EQUIPMENT	SPECIFICATION	BRAND & MODEL
Mortuary Freezer 2 Bodies	• Capacity: 2 bodies • Temperature Range: -10°C to -20°C • Material: Stainless steel • Dimensions: 1200mm (W) x 2000mm (D) x 2100mm (H) • Refrigeration System: Hermetic compressor with air-cooled condenser • Control System: Digital temperature controller with display • Insulation: High-density polyurethane foam • Doors: Lockable, self-closing with magnetic gasket • Shelves: Adjustable stainless steel trays • Power Supply: 220V/50Hz or 110V/60Hz	
Mortuary Freezer 4 Bodies	• Capacity: 4 bodies • Temperature Range: -10°C to -20°C • Material: Stainless steel • Dimensions: 2200mm (W) x 2000mm (D) x 2100mm (H) • Refrigeration System: Hermetic compressor with air-cooled condenser • Control System: Digital temperature controller with display • Insulation: High-density polyurethane foam • Doors: Lockable, self-closing with magnetic gasket • Shelves: Adjustable stainless steel trays • Power Supply: 220V/50Hz or 110V/60Hz	
Mortuary Freezer 6 Bodies	• Capacity: 6 bodies • Temperature Range: -10°C to -20°C • Material: Stainless steel • Dimensions: 3200mm (W) x 2000mm (D) x 2100mm (H) • Refrigeration System: Hermetic compressor with air-cooled condenser • Control System: Digital temperature controller with display • Insulation: High-density polyurethane foam • Doors: Lockable, self-closing with magnetic gasket • Shelves: Adjustable stainless steel trays • Power Supply: 220V/50Hz or 110V/60Hz	

Mortuary Freezer 8 Bodies	• Capacity: 8 bodies • Temperature Range: -10°C to -20°C • Material: Stainless steel • Dimensions: 4200mm (W) x 2000mm (D) x 2100mm (H) • Refrigeration System: Hermetic compressor with air-cooled condenser • Control System: Digital temperature controller with display • Insulation: High-density polyurethane foam • Doors: Lockable, self-closing with magnetic gasket • Shelves: Adjustable stainless steel trays • Power Supply: 220V/50Hz or 110V/60Hz	
Compact Mortuary Cold Room	• Capacity: Customizable (up to 10 bodies) • Temperature Range: 2°C to 8°C • Material: Stainless steel • Dimensions: Customizable based on capacity • Refrigeration System: Modular refrigeration units • Control System: Digital temperature controller with display • Insulation: High-density polyurethane foam • Doors: Lockable, self-closing with magnetic gasket • Shelves: Adjustable stainless steel trays • Power Supply: 220V/50Hz or 110V/60Hz	
Body Immersion Tank	• Capacity: One body • Material: Stainless steel • Dimensions: 2200mm (L) x 700mm (W) x 700mm (H) • Temperature Control: Adjustable thermostat • Heating System: Electric immersion heater • Drainage: Integrated drainage system with valve • Lid: Lockable, with sealing gasket • Power Supply: 220V/50Hz or 110V/60Hz	
Hydro-electric Stacking Trolley	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 1200mm (L) x 600mm (W) x 1500mm (H) • Lift Mechanism: Electric hydraulic system • Control System: Handheld remote control • Wheels: Swivel casters with brakes • Safety Features: Overload protection, emergency stop	

Electric Lifting Trolley with Weighing Scale	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 1200mm (L) x 600mm (W) x 1500mm (H) • Lift Mechanism: Electric hydraulic system • Weighing Scale: Digital scale with accuracy of ±0.1 kg • Control System: Handheld remote control • Wheels: Swivel casters with brakes • Safety Features: Overload protection, emergency stop	
Hydraulic Lifting Trolley	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 1200mm (L) x 600mm (W) x 1500mm (H) • Lift Mechanism: Manual hydraulic pump • Control System: Hand lever • Wheels: Swivel casters with brakes • Safety Features: Overload protection, emergency stop	
Autopsy Table	• Material: Stainless steel • Dimensions: 2400mm (L) x 800mm (W) x 850mm (H) • Surface: Perforated work surface • Sink: Integrated sink with water supply • Drainage: Continuous drainage system • Ventilation: Integrated ventilation system • Adjustability: Height adjustable	
Dissecting Sink	• Material: Stainless steel • Dimensions: 1200mm (L) x 600mm (W) x 850mm (H) • Sink: Dual basin with water supply • Drainage: Integrated drainage system • Accessories: Tap with adjustable spray head • Shelves: Lower shelf for tools and materials	
Remote Control System	• Functionality: Wireless control of mortuary equipment • Range: Up to 50 meters • Control Types: Lift, temperature, ventilation • Power Supply: Rechargeable battery • Compatibility: Compatible with multiple devices • Safety Features: Emergency stop button	
Coffin Trolley	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 2000mm (L) x 600mm (W) x 600mm (H) • Lift Mechanism: Manual or electric lift • Wheels: Swivel casters with brakes • Surface: Non-slip surface • Handles: Ergonomic handles for easy manoeuvring	

Mortuary Body Transportation Trolley	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 2000mm (L) x 600mm (W) x 850mm (H) • Lift Mechanism: Manual or electric lift • Wheels: Swivel casters with brakes • Surface: Non-slip surface • Handles: Ergonomic handles for easy manoeuvring	
Body Transport Trolley for Internal Floor	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 2000mm (L) x 600mm (W) x 850mm (H) • Lift Mechanism: Manual or electric lift • Wheels: Non-marking swivel casters with brakes • Surface: Non-slip surface • Handles: Ergonomic handles for easy maneuvering	
Body Transport Trolley for External Floor	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 2000mm (L) x 600mm (W) x 850mm (H) • Lift Mechanism: Manual or electric lift • Wheels: Heavy-duty swivel casters with brakes • Surface: Non-slip surface • Handles: Ergonomic handles for easy maneuvering	
Cover for Trolley	• Material: Waterproof and fire-retardant fabric • Dimensions: Customizable to fit various trolleys • Closure: Zipper or Velcro • Color: Various colors available • Handles: Reinforced handles for easy handling • Features: Ventilation holes	
Transfer Plate for Bodies	• Material: Stainless steel • Dimensions: 2000mm (L) x 600mm (W) • Surface: Non-slip surface • Handles: Ergonomic handles for easy maneuvering • Compatibility: Fits standard mortuary trolleys	
Lifting Trolley	• Capacity: Up to 250 kg • Material: Stainless steel • Dimensions: 1200mm (L) x 600mm (W) x 1500mm (H) • Lift Mechanism: Manual or electric lift • Wheels: Swivel casters with brakes • Control System: Handheld remote control (for electric models) • Safety Features: Overload protection, emergency stop	

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Preparation Tables	• Material: Stainless steel • Dimensions: 2000mm (L) x 800mm (W) x 850mm (H) • Surface: Perforated or solid work surface • Adjustability: Height adjustable • Accessories: Integrated sinks, drainage, storage shelves • Features: Ergonomic design	
Oscillating Saw	• Blade Speed: Variable speed control (10,000 - 20,000 oscillations per minute) • Blade Material: Stainless steel or titanium • Power Supply: Rechargeable battery or mains powered • Ergonomics: Lightweight, anti-vibration handle • Safety Features: Safety guard, quick-release blade mechanism • Weight: Approximately 1.5 kg	

ICU EQUIPMENT

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Mechanical Ventilator Machine	• Modes of Ventilation: Volume Control, Pressure Control, SIMV, CPAP, BiPAP • Patient Type: Adult and Paediatric • Tidal Volume Range: 50 - 2000 mL • Respiratory Rate: 4 - 60 breaths per minute • PEEP Range: 0 - 20 cm H_2O • Inspiratory Flow Rate: Up to 120 L/min • Humidification: Integrated humidifier with heated wire • With Air compressor • Alarm Systems: Apnea, High/Low pressure, Low battery, Disconnection • Display: Color touchscreen (10-15 inches) • Battery Backup: Minimum 4 hours • With a Patient circuit Arm • Interfaces: USB, Ethernet for data export **ACCESSORIES** • Additional 5 Adult Reusable Breathing circuits complete with a humidifier chamber. • Additional 5 Paediatric Reusable Breathing circuits complete with a humidifier chamber. • Two additional Flow Sensor • One Additional Oxygen Sensor • One additional EtCo2 if applicable • 10 Additional Bacterial Filter • Humidifier Temperature Sensor where applicable	

Portable Ventilator Machine	• Equipment Weight : ≤ 10 kg • Power Supply: AC/DC, Rechargeable battery (8-10 hours) • Ventilation Modes: CPAP, BiPAP, Assist Control, SIMV • Tidal Volume Range: 50 - 1000 mL • Respiratory Rate: 5 - 50 breaths per minute • PEEP Range: 0 - 15 cm H_2O • Alarm Systems: High/Low pressure, Low battery, Circuit disconnect • Display: LCD screen (5-7 inches) • Portability Features: Handle, Shoulder strap **ACCESSORIES** • Additional 5 Adult Reusable Breathing circuits complete with a humidifier chamber. • Additional 5 Paediatric Reusable Breathing circuits complete with a humidifier chamber. • Two additional Flow Sensor • One Additional Oxygen Sensor • One additional EtCo2 if applicable • 10 Additional Bacterial Filter • Humidifier Temperature Sensor where applicable	
External Pacemaker	• Modes: Fixed rate, Demand mode • Pulse Width: Adjustable 0.1 - 2.0 ms • Output Voltage: 0 - 20 V • Battery Life: Minimum 48 hours (rechargeable battery) • Display: LED/LCD for heart rate and settings • Input/Output Ports: ECG input, External pacing output • Safety Features: Over- and under- voltage protection, Lead fault indicator	
ICU Beds	• Adjustability: Height, Trendelenburg/Reverse Trendelenburg, Backrest, Knee rest • Control: Electric with manual override • Weight Capacity: Up to 250 kg • Side Rails: Collapsible with locking mechanism • Mattress: Pressure-relief, antimicrobial • Casters: Lockable, 360-degree rotation • Accessories: IV pole, Urine bag holder, Overbed table	
Pneumatic Mattress	• Type: Alternating pressure, Low air loss • Cell Construction: Nylon/PU cells • Pump Features: Adjustable pressure settings, Quiet operation • Weight Capacity: Up to 200 kg • Cover Material: Waterproof, vapor permeable • Alarm: Low pressure, Power failure • Cycle Time: Adjustable 10-30 minutes	

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Patient Warmer	• Temperature Range: 32°C - 42°C • Heating Technology: Forced-air warming, Water circulation • Safety Features: Over-temperature protection, Audible alarms • Display: Digital with temperature control • Blanket Options: Various sizes, disposable or reusable • Portability: Compact with wheels	
ICU Patient Monitor	Display: • Type: High-resolution color LCD/TFT • Size: 12 to 15 inches • Resolution: 1024 x 768 pixels Parameters Monitored: • ECG (3-lead or 5-lead) • SpO2 • Non-Invasive Blood Pressure (NIBP) • Invasive Blood Pressure (IBP) • Temperature (dual-channel) • Respiratory rate (RR) • End-Tidal CO2 (optional) • Cardiac Output (optional) Alarms: • Visual and audible alarms • Adjustable alarm limits • Prioritized alarms (high, medium, low) Data Storage and Connectivity: • Built-in memory for trend data storage (up to 72 hours) • USB ports for data export • Ethernet port for network connectivity • Optional Wi-Fi connectivity Power: • AC Input: 100-240V, 50-60Hz • Battery Backup: Minimum 2 hours **ACCESSORIES** • Three additional reusable SPO2 • Six additional NIBP cuff 2 Adult, 2 paediatric and 2 neonatal • Three additional temperature sensors • One additional ECG Safety and Standards: • Compliance with IEC 60601-1 • CE marked and FDA approved	

Bed Pan Washer	Construction: • Material: Stainless steel (AISI 304 or AISI 316) • Capacity: 3 to 6 bedpans Washing Cycle: • Cycle Time: 3-5 minutes • Temperature: Up to 90°C • Disinfection: Thermal disinfection with steam Controls and Display: • Digital control panel • Programmable wash cycles • Status indicators for cycle completion and error alerts Water and Drainage: • Water Consumption: 8-12 liters per cycle • Drainage: Direct connection to hospital waste system Safety and Standards: • Compliance with ISO 15883 • CE marked	
Tilt Table	Frame and Construction: • Material: Heavy-duty steel frame • Surface: Padded with washable vinyl cover • Tilt Range: 0° to 90° Dimensions: • Table Length: 180-200 cm • Table Width: 60-70 cm • Height Adjustment: 50-100 cm (optional) Motor and Controls: • Motorized tilt with remote control • Emergency stop button • Manual tilt adjustment (optional) Safety Features: • Adjustable safety belts • Non-slip footplate • Side rails for patient security Weight Capacity: • Maximum Load: 200 kg	

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Stretcher on Trolley	Frame and Construction: • Material: Aluminum or stainless steel • Surface: Padded with waterproof, anti-bacterial cover Dimensions: • Length: 190-210 cm • Width: 55-65 cm • Height: Adjustable from 45 to 90 cm Wheels and Mobility: • Wheel Diameter: 15-20 cm • Swivel casters with brakes • Directional lock for straight movement Features: • Backrest adjustment: 0° to 75° • Foldable side rails • IV pole attachment • Storage tray underneath Weight Capacity: • Maximum Load: 150-200 kg	

MEDICAL FURNITURE

EQUIPMENT	SPECIFICATIONS	BRAND & MODEL
Hospital Beds	• Frame Material: Powder-coated steel or aluminium • Dimensions: Length 2000-2200 mm, Width 900-1000 mm • Height Adjustment: 450-750 mm (motorised) • Mattress Platform: Four-section, adjustable • Backrest & Knee Rest: Motorised adjustments • Weight Capacity: 250-300 kg • Side Rails: Collapsible, with locking mechanism • Casters: 360-degree swivel, with locking brakes • Accessories: IV pole, overbed table, patient lifting pole	
Step Ladder	• Material: Stainless steel or aluminum • Steps: 2-4 steps • Step Width: 300-350 mm • Load Capacity: 150-200 kg • Anti-Slip Surface: Rubber or textured coating • Handrails: Optional • Height: 600-1000 mm	
Bedside Cabinet	• Material: Stainless steel or laminated wood • Dimensions: Height 800-900 mm, Width 400-500 mm, Depth 400-500 mm • Drawers: 2-3 drawers with smooth gliding tracks • Top Surface: Scratch-resistant, waterproof • Casters: 4 swivel casters, two with brakes	
Overbed Table	• Material: Stainless steel frame, laminated wood or composite top • Dimensions: Length 800-1000 mm, Width 400-500 mm • Height Adjustment: 700-1100 mm (manual or pneumatic) • Base: U-shaped, with 4 swivel casters	
Mayo Table	• Material: Stainless steel • Dimensions: Top: 600-800 mm length, 400-500 mm width • Height Adjustment: 800-1200 mm (manual or pneumatic) • Base: Weighted, 4 swivel casters	

Instrument Trolley	• Material: Stainless steel • Shelves: 2-3 shelves • Dimensions: Height 900-1200 mm, Width 600-800 mm, Depth 400-600 mm • Casters: 4 swivel casters, two with brakes • Accessories: Removable trays, guardrails on shelves	
Emergency Trolley	• Material: Stainless steel or ABS plastic • Dimensions: Height 1000-1200 mm, Width 700-900 mm, Depth 500-700 mm • Drawers: 4-6 drawers with locking mechanism • Accessories: IV pole, cardiac board, oxygen cylinder holder, defibrillator shelf • Casters: 4 heavy-duty swivel casters, all with brakes	
General Purpose Trolley	• Material: Stainless steel or aluminum • Shelves: 2-3 shelves • Dimensions: Height 900-1200 mm, Width 600-800 mm, Depth 400-600 mm • Casters: 4 swivel casters, two with brakes • Accessories: Guardrails on shelves, removable trays	
Drip Stand	• Material: Stainless steel or aluminum • Height Adjustment: 1200-2100 mm • Base: 5-leg base with swivel casters • Hooks: 2-4 hooks	
Surgical Stool	• Material: Stainless steel or aluminium frame, padded seat • Seat Height Adjustment: 450-650 mm (pneumatic) • Base: 5-leg with swivel casters • Backrest: Optional, adjustable	
Lab Stool	• Material: Stainless steel or aluminium frame, padded seat • Seat Height Adjustment: 450-650 mm (pneumatic) • Base: 5-leg with swivel casters • Backrest: Optional, adjustable	
Dental Stool	• Material: Stainless steel or aluminum frame, padded seat • Seat Height Adjustment: 450-650 mm (pneumatic) • Base: 5-leg with swivel casters • Backrest: Adjustable, lumbar support • Footrest: Optional	

Medical Shelves	• Material: Stainless steel or laminated wood • Shelves: 3-5 shelves • Dimensions: Height 1500-1800 mm, Width 600-1000 mm, Depth 300-500 mm • Load Capacity: 50-100 kg per shelf	
Drug Dispensing Trolley	• Material: Stainless steel or ABS plastic • Dimensions: Height 1000-1200 mm, Width 700-900 mm, Depth 500-700 mm • Drawers: 4-6 drawers with locking mechanism • Accessories: Removable trays, labeling system, waste bin, lockable compartments • Casters: 4 heavy-duty swivel casters, all with brakes	

ACKNOLEDGEMENT OF BIOMEDICAL ENGINEERS INVOLVED

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