

OPERATION THEATER



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- Operating Room
- A specialized sterile facility in a hospital or healthcare center where surgical operations are performed in an aseptic environment to prevent infection.
- highly restricted area with strict protocols for personnel and equipment to ensure patient safety and minimize complications.

- **Purpose and Environment**

- **Sterile Environment:**

The primary goal of an OT is to provide a sterile, aseptic environment to prevent surgical site infections.

- **Surgical Procedures:**

It's where a variety of surgical interventions are carried out by a team of healthcare professionals.

Essential Features:

➤ Construction:

- Walls, floors, and ceilings are made of hard, non-porous, and easily cleanable materials to maintain hygiene.

➤ Ventilation:

Modern OTs have specialized ventilation systems with a high number of air changes per hour (e.g., 20 ACH) to control air quality.

Essential Features:

➤ **Lighting:**

Adequate lighting, often white fluorescent, is crucial for the surgical team to see clearly without casting significant shadows.

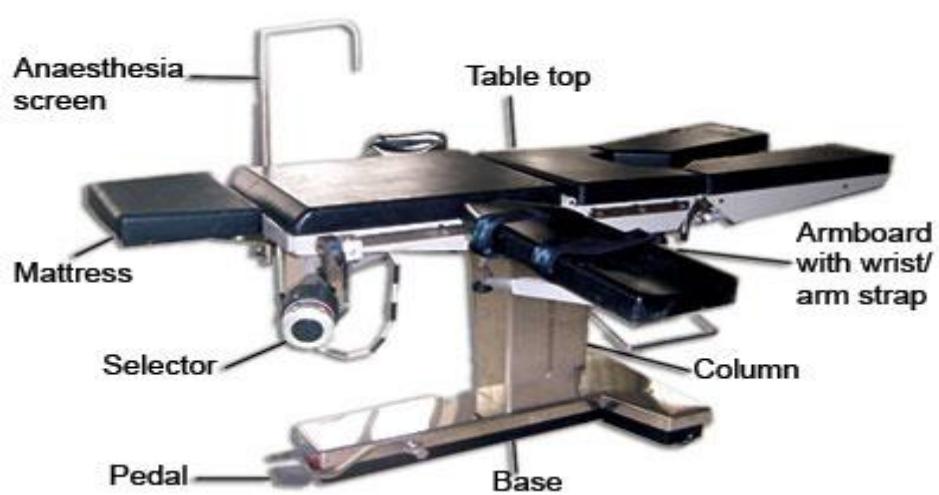
➤ **Equipment:**

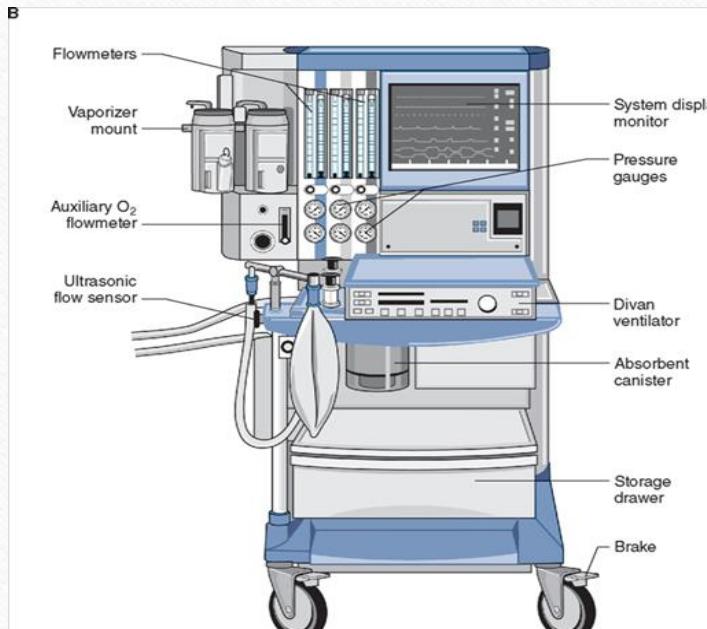
Essential equipment includes surgical instruments, monitoring machines for patient conditions, emergency drugs, and other necessary items for different surgical procedures.

EQUIPMENTS

Operation theater equipment includes essential items like:

- Operating tables
- Surgical lights
- Anesthesia machines
- Electrosurgical unit
- Suction machine





Source: Butterworth JF, Mackey DC, Wasnick JD: *Morgan & Mikhail's Clinical Anesthesiology*, 5th Edition: www.accessmedicine.com

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