

PRODUCT CATALOG

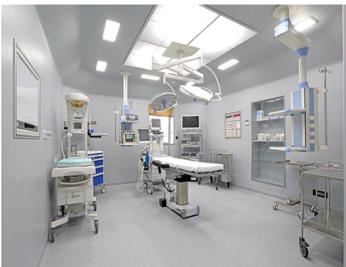
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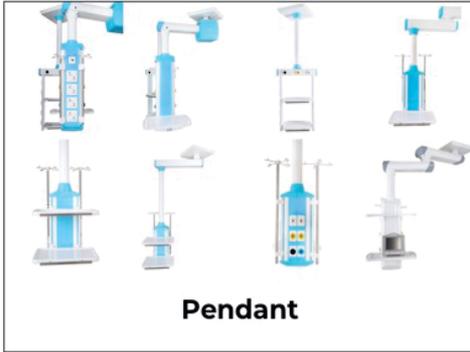
ALAK

Operation Theatre (OT) & Equipments

Modular Operation (OT) by Alak Healthcare



Operation Theatre Equipments



Pendant



Wall and Ceiling Panels



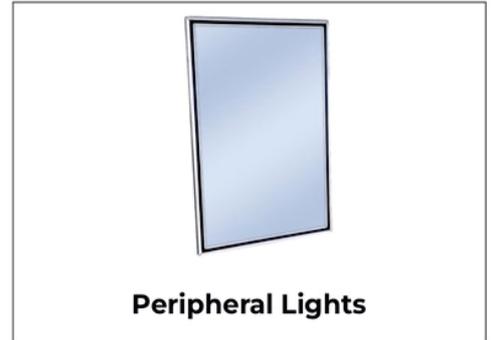
Advanced Modular OT



Laminar Air Flow



Hatch Box



Peripheral Lights



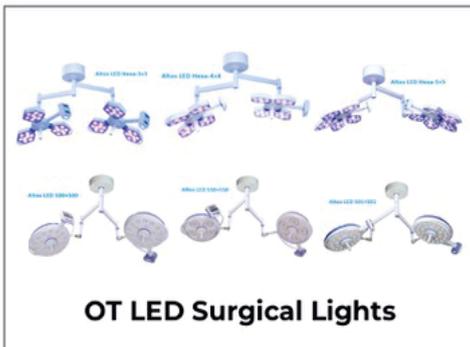
X-Ray Board



Surgeon Control Panel



Writing Board



OT LED Surgical Lights



Door



Pressure Relief Damper



Scrub Sinks



Modular Operation Theatre



Surgical Motorized Pendant



Electric Operating Table Series

ALMI - 125



Technical Specifications

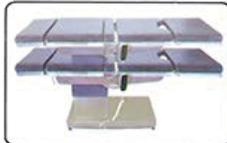
Dimension	1975 mm x 533 mm ±10mm
Adjustable Height	815 mm to 1065 mm ±10mm
Trendelenburg	25° ±3°
Reverse Trendelenburg	30° ±3°
Lateral Tilting Position	25° bothside ± 2°
Lifting Position	250 mm ± 10 mm
Flex Position	85°
Reflex Position	220°
Head Plate	20° up 90° down
Top Slide Stroke*	250 mm



Longitudinal Top Slide*



Hanging Ortho Table *



Adjustable Height



Trendelenburg & Reverse Trendelenburg



Lateral Tilt



Chair Position



**INTRODUCING FIRST DUCTLESS AIR HANDLING UNIT WITH LAF
Patented System for Air Borne Infection control
FOR HOSPITALS, OTS, ICU, NICU, IVF LABS**



Pendant



Single Arm Laparoscopic Pendant



Technical Specifications

- Product Code: ALT-605
- Maximum Load: 120 Kg.
- Vertical Movement: 650 mm.
- Electrical Equipment : 6 X Electric Sockets (optional).
- Operating Temperature : (+10) - (+45) C°.
- Power Supply: 220 V 50 Hz.
- Horizontal Arm Length: 800-1000 mm.
- Material: Aluminum Extrusion Profile high impactive ABS With SS304 Screws
- Package Sizes : 1520 x 780 x 510 mm & 1120x140x260 mm & Size of upper ceiling Mounting part.
- Product Weight: 132Kg.

Features

- Packaging Type: Wrapped Package /wooden packing with extra charge.
- Color: Single Dual color combination or as per requirement.
- The angle of rotation: up to 340 degree.
- Gas Equipment: Variable according to project.
- Rust-resistant coating
- Shelves
- Articulated
- With columns
- Intensive care
- Endoscopy
- Trays : 2 (variable)



Double Arm Surgical Pendant



Technical Specifications

- Product Code: ALT 603
- Maximum Load: Max 100 Kg
- Electrical Equipment : 6 X Electric Sockets, (optional)
- Packaging Type: Wrapped /Wooden packing
- Product Weight: 152Kg
- Material: Aluminum Extrusion Profile high impactive ABS With SS304 Screws
- IV Stand: Two Pole with Hangers
- Color: Single /Dual color combination or as per requirement
- The angle of rotation: up to 340 degree

Features

- Gas Equipment: Variable according to project
- Operating Temperature : (+10) – (+45) °C
- Power Supply: 220 V 50 Hz
- Horizontal Arm Length : 2x 600 to1000 mm
- Rust-resistant coating
- A large area covering
- Shelves
- Articulated
- With columns
- ICU
- Endoscopy
- Trays: 2/3 (variable)

Fixed Surgical Pendant



Technical Specifications

- Product Code: ALT 601
- Maximum Load: 120 Kg
- Package Sizes : 800 x 620 x 700 mm & 1070 x 140 x 260 mm + size of upper ceiling mounting part
- Electrical Equipment : 6 X Electric Sockets(optional)
- Operating Temperature : (+10) – (+45) °C
- Product Weight: 120Kg
- Horizontal Arm Length : (600-1000) mm

Features

- Gas Equipment: Variable according to project
- Power Supply: 220 V 50 Hz
- Material: Aluminum Extrusion Profile and high impactive ABS With SS304 Screws
- Color: Single /Dual color combination or as per requirement
- Shelves: 2/3 (variable)
- The angle of rotation: up to 340 degree
- Packaging Type: Wrapped /Wooden packing

Modular Electric Double Arm Pendant



Technical Specifications

- Product Code: ALT -611
- Maximum Load: 120 Kg
- Vertical Movement: 650 mm
- Electrical Equipment : 6 X Electric Sockets (optional)
- Operating Temperature : (+10) – (+45) °C
- Power Supply: 220 V 50 Hz
- Horizontal Arm Length: 2 x(800-1000) mm
- Packaging Type: Wrapped /wooden packing
- Package Sizes : 1150 x 620 x 700 mm & 1120x140x260 mm+ Size of upper ceiling Mounting part
- Product Weight: 210 Kg + Upper ceiling connection part
- Material: Aluminum Extrusion Profile with high impactive ABS With SS304 Screws
- Movement: 21 degrees up and 24 degrees down

Features

- Gas Equipment: Variable according to project
- Color: Single /Dual color combination or as per requirement
- Trays: 2 to 5 (adjustable)
- The angle of Rotation : up to 340 degree
- Rust-resistant coating
- Shelves
- With columns
- Intensive care
- Endoscopy
- Modular
- Monitor Support Arm (Optional).
- Motorized
- Large area covering,
- Pneumatic brake



Door

Hermetic Seal Swing Door



Technical Specifications

- Product Code : ALT -628
- Raw material : stainless steel or high density laminate/PPGI
- Handle : SS - 304
- Size of the Door : Fully customizable sizes / One or double leaf.
- Leaf thickness : 42 - 60 mm
- Frame thickness : 50- 100 mm
- View panel : Double glazed toughen glass of 5mm thickness in size of 300 x 300 mm/ 400 x 600 mm
- Sealing Gasket : PVC or rubber gasket to make it leak proof

Features

- Lock : Cylindrical lock
- Thickness of Door : 42-60mm
- Color : As per requirement
- Infill : Honeycomb or Puff
- Elegant design : Flush view panel and easy cleaning.
- Easy-Open and Easy-Close
- Seals Automatically
- Low Profile ADA Compliant Threshold
- Available in RF-Shielded and Acoustic Configurations, Single or Double Door
- Excellent for New or Existing Construction

Hermetically Sealed Sliding Door (Manual Sliding Door)



Technical Specifications

- Product Code : ALT -629 (M)
- Handle : SS - 304
- Thickness of Door : 55mm-60mm
- View Window : 300 x 300mm , 400 x 400mm toughened glass of 5mm thickness
- Clear Opening : 800-2500mm
- Sliding Mechanism : High impact rollers of nylon insert bearing system
- Sliding System : Aluminum extruded profile with high smoothness

Features

- Color : As per requirement
- Lock : Cylindrical lock
- Gasket : Synthetic /Rubber PVC ,Soft PVC gasket
- Frame Material : Aluminum extruded profile
- Door : Aluminum extruded profile with PPGI, HPL,SS
- Infill : Honeycomb or Puff
- Tpye : Manual sliding door, Automatic sliding door

Automatic Sliding Door



Technical Specifications

- Product Code : ALT- 629 (A)
- Lock : cylindrical lock
- Handle : SS - 304
- View window : 300 x 300mm , 400 x 400mm toughen glass of 5mm thickness
- Clear opening : 800-2500mm
- Operation : microprocessor based controller
- Sliding system : Aluminum Extruded profile with high smoothness

Features

- Color : As per requirement
- Motor : DC- Brush less motor
- Thickness of Door : 55mm to 60mm
- Gasket : Synthetic /Rubber PVC ,Soft PVC Gasket
- Door : Aluminum Extruded profile with PPGI, HPL,SS
- Infill : Polyurethane Foam
- Frame material : Aluminum Extruded profile
- Sliding Mechanism : High impact rollers of nylon insert bearing system



Wall And Ceiling Panels

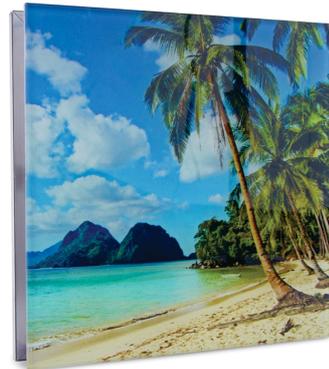


Features

- More durable and soundproof than traditional plasterboard
- Sheets are pre-painted and ready to be painted
- Readily available in a range of lengths
- Light weight, compact & construction friendly
- Fire retardant and Self extinguishing
- Sturdy enough for temperature (-180C to + 140C)
- Easy to install
- Anti-Bacterial
- Scratch less
- High Elusion
- High Toughness
- Self withstanding power (does not need any base structure for installation)

Technical Specifications

- Product Code : ALT 634 / 644
- Panel Thickness : 50mm,80mm
- Material in Fill : Rigid polyurethane Foam (PUF)
- PUF Properties : CFC free, Self – extinguishing fire retardant type conforming to IS 12436/1988.
- PUF Density : 40 ±2 Kg/m3
- Surface Material : Pre-Painted Galvanized Iron- PPGI, Galvanized Plated
- Skin Passed – GPSP, Stainless Steel ANSI 304-SS 304, High Pressure Laminate (HPL)
- Surface Thickness : PPGI: 0.6 mm – 1.6 mm; GI/SS 304: 0.6mm – 1.6mm
- HPL:1 mm – 6 mm
- Jointer : Aluminum Male/Female connector
- Paint : Pre paint/anti-bacterial



Scrub Sinks



ALAK high-quality SS Scrub Sinks offer hands-free operation via either manual, knee-kick panels, electronic eye infra red sensor or programmable automatic timer. The Series is available in single/double/triple basins and is made from the best materials, components and craftsmanship available.



What is Modular Operation Theatre (Modular OT):

What is Modular Operation Theater? A continuous flow of highly clean bacteria free air is more circulated using the Air Handling Unit under positive pressure in the operating area by Ceiling Suspended Laminar Air Flow. Modular operation theaters are operation theaters that are built inside a hospital with metal and glass ceilings and walls to provide the patient with the optimum position for the operation.

Modular operating theaters that meet those conditions have wall, ceiling, and slant panels, and are capable of containing not only electrical equipment, medical gas systems, and lighting gear, but all necessary functions and equipment if needed.

(Modular Operation Theatre for Hospital – Modular OT) An Operation Theatre , also known as an Operating Room , is a specialized room in a hospital or clinic where surgical procedures are performed on patients. It is a sterile environment designed to minimize the risk of infection and maximize the safety of patients undergoing surgery. The OT is equipped with surgical instruments, anesthesia machines, monitors, and other equipment necessary for the procedure.

The room is typically staffed by a team of healthcare professionals, including surgeons, anesthesiologists, nurses, and surgical technologists, who work together to ensure the best possible outcome for the patient. Before and after surgery, the room is thoroughly cleaned and disinfected to maintain its sterile environment.

A continuous flow of highly filtered 'bacteria free' air is recirculated using the Air Handling Unit under positive pressure in the operating area by Ceiling Suspended Laminar Air Flow. Maintaining temperature and humidity as per customer requirement and minimizing bacterial growth, as fastest bacterial death occurs at 40 – 50% RH.

Air pollutants generated during surgery are removed from the area using seamless wall panels or return air risers with anti-bacterial paint on the wall, which lasts for 9 – 10 years depending on usage.

How many types of Modular Operation Theatres are there?

There are several types of Modular Operation Theatres (MOTs), which are designed to meet different surgical requirements. Some of the common types of MOTs include:

General Surgery Modular Operation Theatre : These are designed for general surgical procedures, such as appendectomies, hernia repairs, and gallbladder removals.

Cardiac Surgery Modular Operation Theatre : These are designed for cardiac surgeries, such as bypass surgeries and valve replacements.

Orthopedic Modular Operation Theatre : These are designed for orthopedic surgeries, such as joint replacements and spinal surgeries.

Neurosurgical Modular Operation Theatre : These are designed for neurosurgical procedures, such as brain and spine surgeries.

Endoscopy Modular Operation Theatre : These are designed for endoscopic procedures, such as colonoscopies and gastroscopies.

Hybrid Modular Operation Theatre : These are designed for hybrid procedures, which involve a combination of surgical and interventional radiology techniques.

The specific features and equipment included in each type of **Modular Operation Theatre** may vary depending on the surgical procedures that are being performed. However, all MOTs are designed to provide a sterile environment to minimize the risk of infection and to ensure the safety of patients and healthcare professionals.

Why is there a need for modular operation theatres? :

There are several reasons why Modular Operation Theatres (MOT) are becoming increasingly popular in hospitals and clinics:

- **Flexibility:** One of the primary reasons for using **Modular operation theatre** is their flexibility. Hospitals and clinics often have changing surgical needs and may require additional or different types of operating rooms to accommodate these needs. **Modular operation theatres** can be easily expanded or reconfigured to meet these changing needs.
- **Speed of construction:** Traditional operating rooms can take several months to construct, which can cause delays in providing essential medical services to patients. In contrast, Modular operation theatres can be installed much faster, as the modular components are pre-fabricated off-site and can be assembled quickly on-site.
- **Infection control:** Modular operation theatre are designed with a focus on infection control, with features like laminar airflow systems, HEPA filters, and antimicrobial surfaces. This reduces the risk of infections and helps to ensure a safe environment for patients and staff.
- **Customization:** Modular operation theatre can be customized to suit the specific needs of hospitals and clinics. They can be designed to accommodate different surgical specialties and layouts, ensuring that the operating room is optimized for the procedures being performed.
- **Cost-effectiveness:** Modular operation theatre are generally more cost-effective than traditional operating rooms. The pre-fabricated components are less expensive than on-site construction, and they require less maintenance and repairs as they are designed for durability and easy cleaning.

Overall, the flexibility, speed of construction, infection control, customization, and cost-effectiveness of Modular Operation Theater make them an attractive option for hospitals and clinics that are looking to expand their surgical capabilities.



What is the use of Modular Operation Theatre (Modular OT):

Modular Operation Theatres (MOT) are increasingly being used in hospitals and clinics as they offer several advantages over traditional or fixed Operation Theatres. The use of modular construction techniques allows for greater flexibility in the design and layout of the OT, which can be customized to suit the specific needs of the hospital or clinic.

Here are some of the benefits of using Modular Operation Theatres:

- **Faster installation:** Modular OT can be installed much faster than traditional ones, which can take several months to construct. The modular components are pre-fabricated off-site and can be assembled quickly on-site, reducing the overall construction time.
- **Improved infection control:** Modular OT are designed with a focus on infection control, with features like laminar airflow systems, HEPA filters, and antimicrobial surfaces, which reduce the risk of infections.
- **Customizable design:** Modular OT can be designed to accommodate different surgical specialties, such as orthopedics, neurosurgery, or cardiac surgery. The layout and equipment can be customized to suit the specific needs of the hospital or clinic.
- **Flexibility:** Modular OT are portable and can be relocated to different parts of the hospital or even to different hospitals as per the demand. They can also be expanded or downsized easily to accommodate changes in the hospital's surgical needs.
- **Cost-effective:** Modular OT are generally more cost-effective than traditional ones, as the pre-fabricated components are less expensive than on-site construction. They also require less maintenance and repairs as they are designed for durability and easy cleaning.

What is the Specifications of Modular Operation Theatre :

A Modular Operation Theater (Modular OAT) is optimally designed to meet the requirements of surgical procedures. The specifications of a modular operation theater can vary depending on the requirements of the hospital or healthcare facility, but here are some common features and specifications:

- **Modular Operation Theatre Size:** Modular operation theaters are available in different sizes to accommodate different surgical procedures and equipment. The size of the operation theater is usually determined based on the type of surgeries that will be performed in it.
- **Walls and Ceilings:** The walls and ceilings of modular operation theaters are made of materials that are easy to clean and disinfect. They are usually constructed of stainless steel or laminated panels that are resistant to moisture and bacteria. The walls and ceilings also feature a smooth finish to prevent the accumulation of dust and dirt.
- **Flooring:** The flooring of a modular operation theater must be non-slip, easy to clean, and resistant to bacterial growth. It is usually made of a seamless material such as vinyl or epoxy.
- **Lighting:** Adequate lighting is critical in an operation theater. Modular operation theaters are equipped with high-intensity surgical lights that can be adjusted to provide the necessary illumination for different procedures.
- **HVAC System:** A modular operation theater requires a specialized HVAC system that provides a controlled environment with positive pressure to prevent the entry of airborne contaminants. The HVAC system also maintains the temperature and humidity levels within the required range.
- **Electrical and Communication Systems:** The operation theater must have a reliable electrical system to power the surgical equipment and lighting. It should also have a communication system that allows the surgical team to communicate with each other and with the outside world during the procedure.
- **Medical Gas Supply:** A modular operation theater requires a medical gas supply system that provides the necessary gases such as oxygen, nitrogen, and compressed air for the surgical equipment and anesthesia.
- **Storage and Sterilization:** The operation theater must have a storage area for surgical instruments and equipment, as well as a sterilization room for the sterilization and cleaning of surgical instruments.

These are some of the common specifications of a modular operation theater, but the specific requirements may vary depending on the type of surgeries that will be performed in it and the preferences of the hospital or healthcare facility.

What is the most advantage of Modular Operation Theatre :

There are several advantages of modular operation theatres, including:

- **Flexibility:** Modular operation theatres are designed to be flexible and adaptable, which means they can be easily customized to suit the specific needs of different surgical procedures. The modular design also allows for easy expansion or reconfiguration of the operation theatre as needed.
- **Cost-Effective:** Modular operation theatres are typically less expensive than traditional operation theatres because they are prefabricated offsite and can be quickly installed on site. This can result in lower construction costs and shorter construction timelines.
- **Ease of Maintenance:** Modular operation theatres are designed with easy-to-clean surfaces, which helps to reduce the risk of contamination and infection. The modular design also makes it easier to replace or repair damaged components or equipment.
- **Improved Infection Control:** Modular operation theatres are designed to meet strict infection control standards, which helps to reduce the risk of infections and complications during surgical procedures.
- **Energy Efficiency:** Modular operation theatres are designed to be energy-efficient, which can help to reduce energy costs and minimize the environmental impact of the facility.

The most significant advantage of modular operation theatres is their flexibility and adaptability, which allows them to be customized to meet the specific needs of different surgical procedures. Additionally, they are cost-effective, easy to maintain, and designed to meet strict infection control standards.





ALAK

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