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TURNKEY LAB SET-UP SOLUTIONS

Turnkey lab solutions refer to a comprehensive, **"READY TO USE" approach to setting up a laboratory including Clean Room Panels, Wall Panels, HVAC Systems, Fumehoods, Laboratory Furniture, Exhaust, Gas Distribution, Electrical, Fire Protection, Lab Effluent & Plumbing systems** etc..., where we handle everything from design to construction of full laboratory as per required customization. This means a client receives a fully functional lab that can be used immediately without the hassle of managing multiple vendors or navigating complex construction and installation processes.

Key aspects of Turnkey Lab Solutions:

Comprehensive Scope: Turnkey solutions encompass all stages of lab development, including design, construction, procurement, installation, and commissioning.

Customization: While offering a complete package, turnkey solutions are often tailored to meet specific client needs and requirements.

Efficiency and Speed: Turnkey projects are designed to streamline the lab setup process, potentially reducing overall project timelines and costs.

Focus on Functionality: The ultimate goal is to deliver a fully operational and functional laboratory that meets all relevant industry standards and supports the client's research or testing needs.

Benefits of using Turnkey Lab Solutions:

One-Stop Shop: Clients deal with a single provider for all aspects of the lab setup, simplifying project management and reducing the need for coordination across multiple vendors.

Reduced Complexity: Clients avoid the complexities of managing multiple contractors and suppliers.

Faster Turnaround: Turnkey solutions can significantly reduce the time required to establish a fully operational lab.

Cost-Effectiveness: While not always the cheapest option, turnkey solutions can offer cost savings through streamlined processes and efficient resource allocation.

Expertise and Experience: Turnkey providers often have extensive experience in laboratory design, construction, and equipment integration, ensuring a high-quality outcome.

Compliance: Turnkey providers are typically well-versed in relevant industry standards and regulations, ensuring the lab meets all necessary requirements.

LCMS / GCMS / ICP-MS WORK STATIONS

LCMS / LCMS-MS workstation is **a laboratory bench designed to place LCMS instruments, including its components**. MS-Workstation is a mobile lab bench optimized for all types of LCMS / MS and GCMS/ MS

Key Features of MS-Work Stations

LCMS instruments, especially larger ones, require dedicated space and support to ensure stability and proper functionality. The workstation provides this, often with adjustable height and width options to accommodate different instrument sizes with antivibration mounts to absorb vibrations from instrument and floor or vice-versa.

Mobile Design: While often stationary, some LCMS workstations are designed to be mobile, allowing for easy relocation within a lab or even transport between labs

Customization: They can be customized to meet specific lab needs, such as accommodating specific instrument models, storage space for consumables, and power outlets.

Safety Features: Workstations may incorporate safety features like spill containment, electrical safety measures, and protective coverings to ensure a safe working environment.

In essence, an LCMS workstation is a functional and organized space designed to support the operation, maintenance, and analysis of LCMS instruments, optimizing the workflow and safety of the laboratory environment.

MODULAR WALL BENCHES / WORK BENCHES

A modular wall bench is **a type of bench designed to be placed typically towards the wall side in a laboratory or workspace, and can be customized by adding or removing modules**. These benches feature durable work surfaces like granite top, storage compartments, and can be equipped with utilities like electrical outlets and Sinks/ water taps etc.,

Key Features:

Laboratory Wall Benches: These benches are designed for use in laboratories and often feature chemical-resistant surfaces, storage compartments, and utility connections.

Modular Design: The bench is composed of individual modules that can be combined and configured to suit specific needs and space constraints.

Wall-Mounted: Designed to be attached to a wall, freeing up floor space and providing a stable work surface.

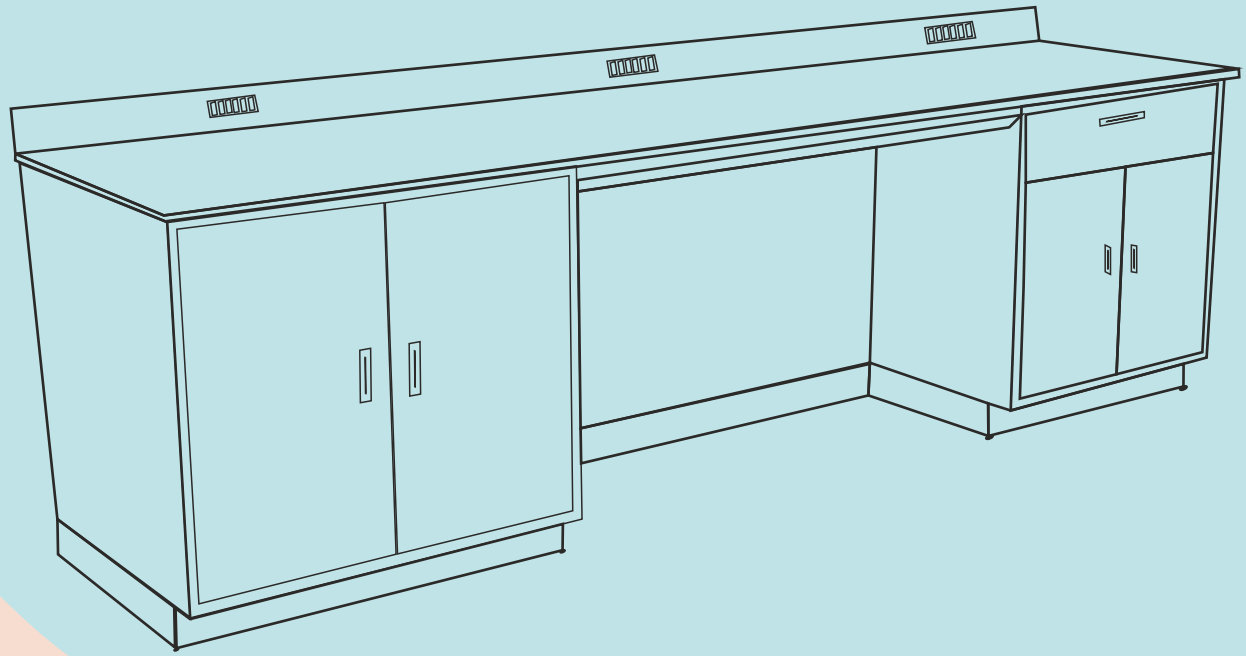
Durable Materials: Frequently made from materials like Stainless steel, Galvanised Iron, Mild Steel, Epoxy resin, or Phenolic resin, which are resistant to chemicals, stains, and corrosion.

Storage: Wall Benches includes drawers, cabinets, and other storage solutions for organizing equipment and supplies.

Utilities: Can be equipped with electrical outlets, water taps, gas valves, and other utilities depending on the specific application.

Versatile Applications: Suitable for use in laboratories, workshops, and other work spaces where a wall-mounted work surface and storage are needed.

Customization : The benches are made in standing height or in a sitting height or as customised as per the site requirements



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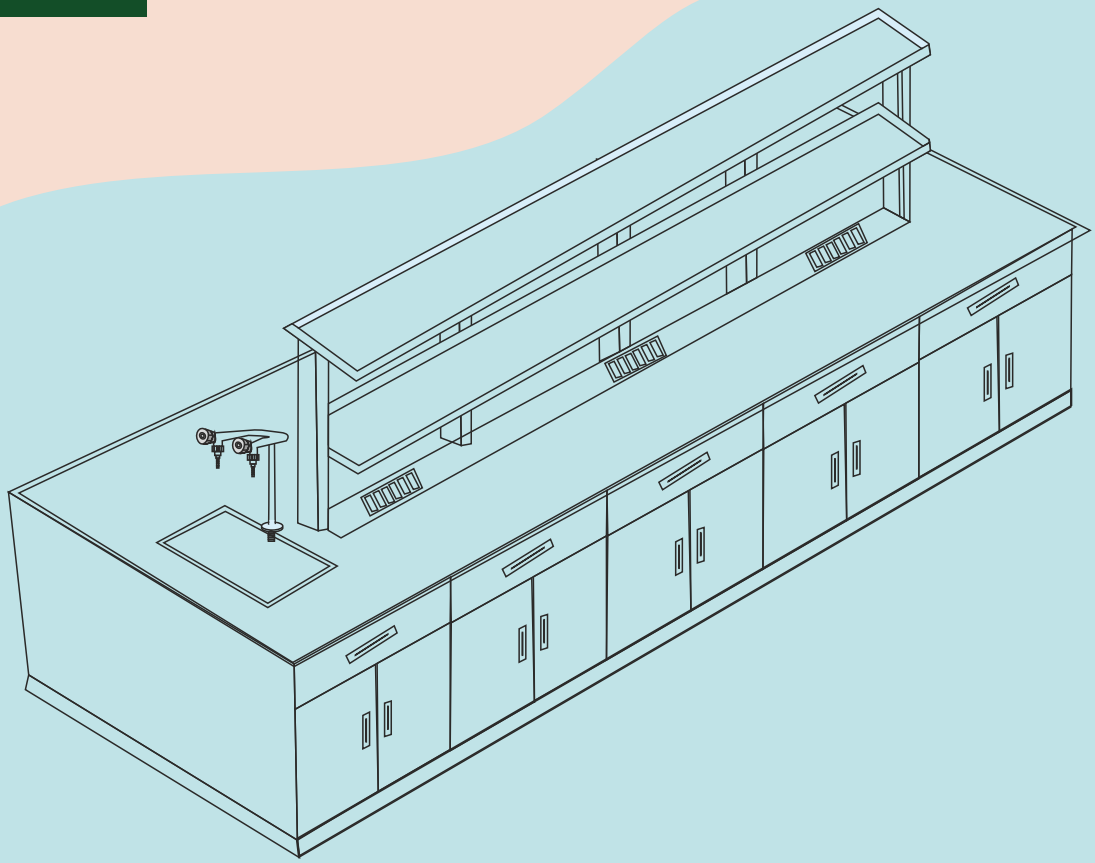
ISLAND TABLES



ISLAND Table :
A laboratory island table is **a freestanding workbench, typically situated in the middle of a laboratory space, designed for flexible and collaborative work**.
It offers a substantial work surface, storage options, and often includes integrated utilities like gas, water, and electrical outlets. These tables are versatile and customizable, allowing researchers to adapt the workspace to their specific needs.

Key features:
Material and Construction: Island tables are commonly constructed from high-quality materials like galvanized iron with epoxy powder coating or stainless steel, chosen for their durability and resistance to chemicals and moisture.
Dimensions and Configuration: Island tables come in various sizes and can be customized to fit specific lab layouts. They can have a modular design, allowing for different configurations of drawers, cabinets, and shelves.
Work Surface: The top of the table is often made of materials like granite, epoxy resin, or high-pressure laminate for chemical and heat resistance.
Integrated Utilities: Many island tables have built-in utilities like gas taps, water connections, and electrical outlets, providing convenient access for equipment and instruments.
Storage Options: Island tables often include drawers, cabinets, and reagent racks for storing supplies, equipment, and samples, promoting organization and maximizing space efficiency.
Accessibility: The open design of an island table allows for easy access from all sides, facilitating collaboration and movement around the workspace.
Applications: Island tables are suitable for a wide range of applications, including chemistry, physics, biology, and other scientific disciplines.

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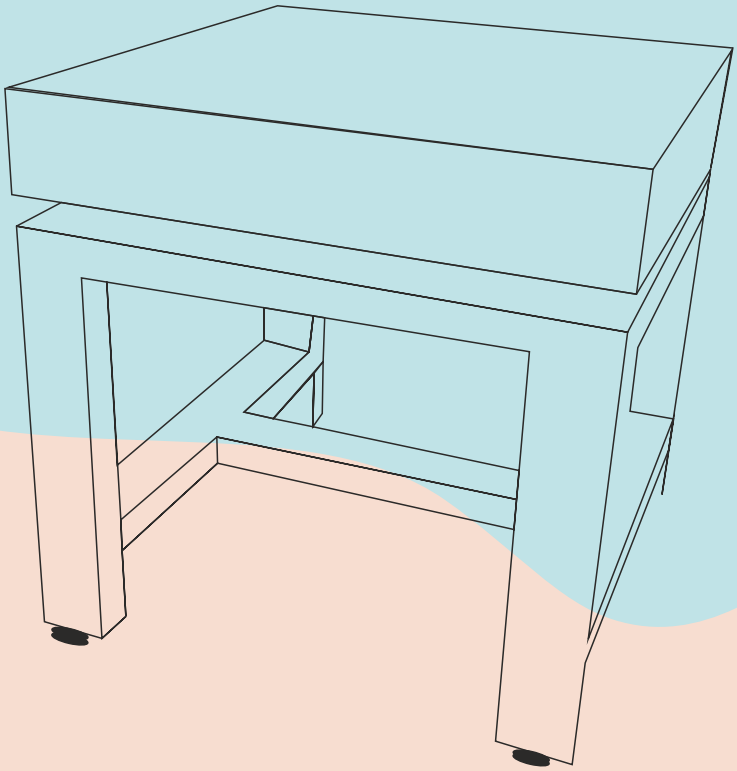
ANTI-VIBRATION TABLES

An antivibration table for balances is **a laboratory table designed to minimize vibrations that can interfere with the accuracy of precision weighing instruments like analytical balances**. It typically features a heavy, stable structure, a solid work surface of granite and vibration-damping elements like antivibration mounts to isolate the table from floor vibrations.

Key Features:

To isolate sensitive laboratory instruments like balances from vibrations that can affect the accuracy of their readings.
To provide a stable and vibration-free surface for high-precision weighing in various laboratory settings, including R&D, testing, and QC labs.
Heavy Stable Structure: The table is designed to be robust and heavy, with a significant weight to help absorb and dampen vibrations.
Solid Work Surface: A heavy-duty work surface, often made of granite or a similar material, provides a stable and durable platform for placing the balance.
Vibration Damping: The table incorporates vibration-damping elements, such as pads, springs, or other shock-absorbing materials, to reduce the transfer of vibrations from the floor to the balance.
Adjustable Feet: Many tables have adjustable feet, allowing for precise levelling on uneven surfaces and further minimizing vibrations.
Surface Treatment: Some tables feature a surface treatment, like a smooth, scratch-resistant finish, to enhance durability and prevent contamination.
Materials Used:
Steel: Used for the frame and other structural components.
Granite: Often used for the work surface due to its durability, hardness, and vibration damping properties.
Antivibration mounts and shock-absorbing materials: Used for vibration damping elements.
Benefits of Anti-Vibration Tables :
Improved Accuracy: By minimizing vibrations, anti-vibration tables help ensure accurate and reliable weighing results, especially for delicate balances and small samples.
Protection of Instruments: They protect sensitive instruments from damage or malfunction caused by vibrations.
Versatility: Anti-vibration tables can be used in various laboratory settings, including those with heavy machinery or high levels of traffic.



STORAGE CABINETS

Lab Storage Solutions:
When setting up lab storage cabinets/ slotted angle racks or any other storage solution for lab, it's important to choose materials and designs that suit the specific requirements of a laboratory environment — such as chemical resistance, weight-bearing capacity, hygiene, and space optimization.

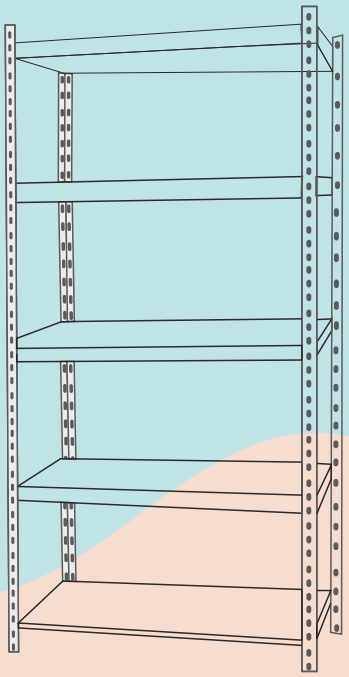
Lab Storage Cabinets
These are designed to safely store lab equipment, chemicals, and consumables. They typically come in several types:

Chemical Storage Cabinets:
Materials used: Often made from powder-coated GI stainless steel, Polypropylene for chemical resistance.
Features:
Ventilation slots or ducted systems
Lockable doors
Acid/base/flammable labels and segregation

Glassware Cabinets:
Adjustable shelving
May include drawers or compartments
Available in vertical or wall-mounted configurations

Fume Hood Cabinets:
Positioned below fume hoods
Often vented to capture hazardous fumes from stored substances

SLOTTED ANGLE RACKS



Slotted Angle Racks:
Slotted angle racks are modular shelving systems ideal for bulk storage. They're especially useful in storerooms or ancillary areas of a lab.

Key Features:
Material used : Mild steel with powder coating (for corrosion resistance)
Capacity: Can range from light-duty (100 kg/shelf) to heavy-duty (over 500 kg/shelf)
Modularity: Adjustable shelves at multiple height increments
Customization: Width, depth, and height can be customized
Ease of Assembly: Bolted construction allows for easy reconfiguration

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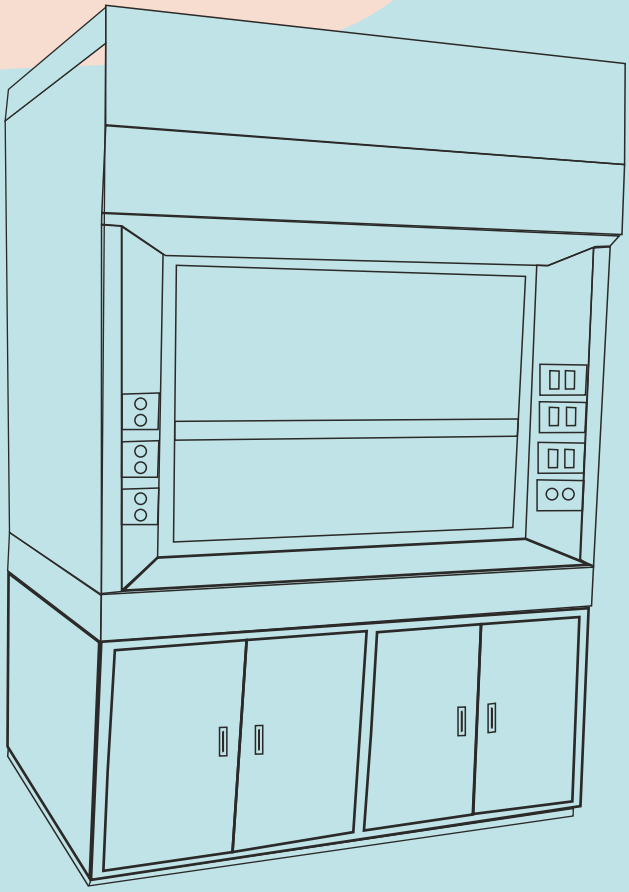
FUMEHOODS & ACCESSORIES



A laboratory fume hood is **a ventilated, enclosed workspace designed to protect users from exposure to hazardous fumes, vapors, and dusts generated during laboratory experiments**. It functions by drawing air and contaminants into the hood, capturing and exhausting them through a ventilation system, preventing them from spreading into the laboratory environment.

Key Features and Functions:

Ventilation: A fume hood is equipped with a fan system that pulls air from the laboratory and into the hood.

Enclosure: The hood provides a physical barrier between the user and the hazardous materials, with a movable sash (a glass window) that can be adjusted to control the airflow.

Exhaust System: Contaminated air is exhausted through a duct system to the outside of the building, preventing it from recirculating back into the lab

Safety: Fume hoods are essential for protecting laboratory personnel from inhaling toxic or harmful fumes, and they can also help to prevent fires or explosions.

Versatility: Fume hoods come in various types, including benchtop, low-bench, walk-in, and specialized hoods for specific applications like perchloric acid or radioisotope work.

Airflow: The airflow within the hood is designed to capture and contain contaminants, and it can be affected by factors like sash position and the presence of equipment inside the hood.

In summary, fume hoods are critical safety equipment in laboratories, providing a controlled environment to handle hazardous materials and protect lab personnel from harmful exposures.

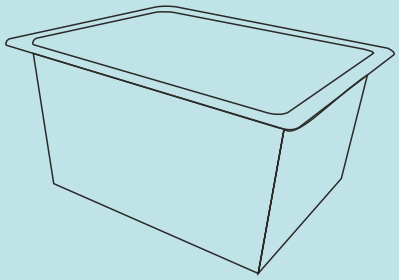
PP ITEMS

Polypropylene Accessories(PP), are commonly used in Pharmaceutical laboratories due to their excellent chemical resistance:

PP Sinks (Polypropylene Sinks)

Description:

PP sinks are chemical-resistant sinks made from polypropylene, designed for use in laboratories handling corrosive chemicals. They are highly resistant to acids, alkalis, and solvents, making them ideal for fume hoods, lab benches, or chemical waste disposal systems.



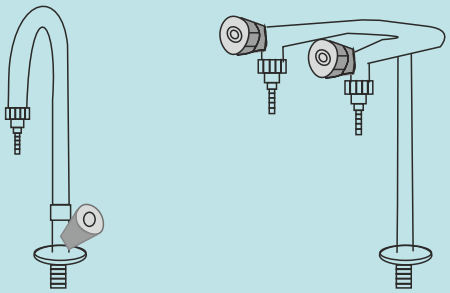
Features:

Non-corrosive and highly durable
Resistant to most chemicals and stains
Seamless and easy to clean
Typically under-mount or drop-in installation
Commonly used in chemical, pharmaceutical, and research labs

PP Taps (Polypropylene Taps/Faucets)

Description:

PP taps are laboratory-grade faucets made from polypropylene, used for dispensing water or chemical-resistant liquids. They are built to withstand exposure to aggressive substances and are often used with PP sinks.



Features:

Chemically resistant construction
Manually operated or lever-based
Often used for distilled, deionized, or tap water in labs
Available in single, double, or triple outlet configurations
Durable, leak-proof design

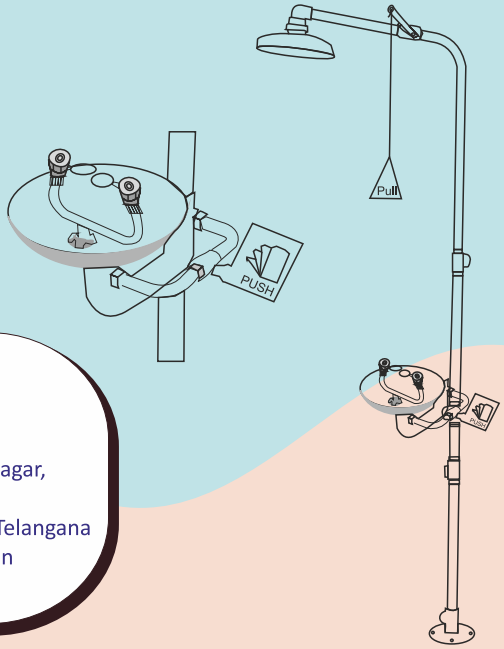
PP Eye Wash (Polypropylene Emergency Eye Wash Station)

Description:

PP eye wash units are safety devices designed to flush the eyes in case of chemical exposure. Constructed from polypropylene, they provide immediate decontamination and are essential in labs dealing with hazardous materials.

Features:

High chemical resistance and corrosion-proof
Wall-mounted or bench-mounted options
Equipped with soft flow nozzles for gentle rinsing
Manual activation via push plate or paddle
Complies with safety standards for emergency eyewash equipment



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