



INTEGRITY
ENGINEERING & TECHNOLOGY



Integrity Engineering & Technology:

**TAKING
MANUFACTURING
PROCESS TO THE
NEXT LEVEL**



About Us

We are exceptionally hardworking people striving for the best output in Design, Finishing and Precision Fabrication of Furniture and Fixtures with the ultra-modern facility hosting cutting edge technologies like Robotic welding, Computer aided machining and laser cutting for that ultra-plush form and finish. The Integrity Engineering & Technology is founded in 2021 with a vision to cater to the needs of our segment market requirements with cost-effective and quality Solutions to utmost satisfaction. We understand the current fiscal position of various institutions and businesses post-pandemic. With Make-In-India and Self-Reliant India strategy, we stepped up to offer products 100% made locally with global precision & standards to your customary needs. We are a one of kind unique precision engineering firm with Integrity and Transparency as our core values. Our team includes highly trained energetic and enthusiastic Designers, Engineers, Fabricators and Machine operators sought from National Institutions, up-keeping quality in every process and at every stage of our client engagements. We are strategically located at ID plot no 70, phase IV, Cherlapally Industrial Area, Secunderabad, India. We take great pride in superior quality, versatility, efficiency and capabilities of our products and processes. Integrity Engineering & Technology operates within a highly advanced 4,000-square-foot precision fabrication facility with Mr. Masani Bhasker., B.Tech [Mech] as the Founding Engineer with Mr. Macharla Shiva Prasad., B.Tech as our Co-founder, Mr.Danthalapally Parushuramulu, B.Tech[Mech], M.Tech [Mfg & Production Tech] as our Production Engineer and. As a team, we look after the overall Design, Product Development, Precision Engineering, Production, Scheduling, Manufacturing, Operations, Quality Conformance and Business Process Engineering to cater to the ever changing market trends with utmost delivery capabilities and responsive attitude towards continuous improvement resulting in excellence. We guarantee that our passion for our work, our responsibility in client engagements, our value engineered products and superior product quality will ensure the satisfaction you are anticipating from us. In the hands of our expert fabricators, with the array of technologies at the Integrity Engineering & Technology- Production Facility, we host the practical tools that solve problems, generate solutions and produce results efficiently. Specialization makes us, not only flexible in production and excellent in the details, but also resourceful with customer-focused design and fabrication solutions. We also offer prototype manufacturing, design evaluation, tolerance and manufacturability check with CAD operations & testing. Our Products & Services : Corporate Office & School and College furniture, Pharmaceutical Industry Requirements and Specialty Furniture, Coffee Shop Chairs & tables, S S Kitchen Interior, PPGI Profile 45 Degree cutting M/C [Include Control Panels, Enclosures & More], Quick Turn Prototyping and Assembly Services.



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INTEGRITY
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Fiber Laser Cutting Machine

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CNC Bending Machine

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UV Chamber

A UV chamber is a device or enclosure equipped with ultraviolet (UV) light sources. Its purpose is often to disinfect or sterilize various objects or surfaces by exposing them to UV radiation. UV light can be effective in killing or inactivating microorganisms such as bacteria, viruses, and mold.



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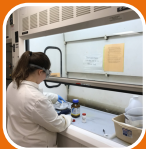


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Fume Hood

Fume hoods are ventilation device designed to prevent the user and the laboratory/facility from toxic fumes, gases, aerosols, and dust which may be generated while handling a chemical. Fume hoods provide spacious working area and various equipment like the hot plate, overhead stirrer and weighing balance etc. can be used inside of it.



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TYPES OF FUME HOOD

- Bench Type Constant Fume Hood
- Low Constant Bench Volume Type Fume Hood
- Walk in Type Fume Hood

SALIENT FEATURES

Structure Frame	GI (TATA) construction 1.6mm with highly sturdiness / SS 304-316
Outer Panels & Body	Double side panels with construction of GI (TATA) sheet 1.2mm thickness / SS 304-316
Front Pillars	45 Degree sections for easy air circulation inside the hood.
Airfoil	Flip on type in 1.6mm (SS 316)
Sash	Vertical rising 6mm toughened glass mounted in a leveled PP channel with roller for smooth sliding. The bottom of sash frame has a full length of metal handle. The sash shall be balanced with a weight to prevent tilting & binding during operation.
Inner Lining & baffles	Inner walls and top baffles are made from Phenolic resin 8mm Sheet which is resist chemically and thermally
Work Top	Black Jet Granite 40mm with skirting covered, Oval shaped PP cup sink for drainage water.
Duct Damper	200/300mm Diameter in PP construction with flanges & both sides manual operation handle. (Damper diameter will be fixed depend upon work area size)



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Service Valves	Brass construction with aluminum spindle, Color knobs in plastic construction. Angular shaped Serrated nozzles with epoxy coated brass material. Along with 1.5mtr long tubing
Valves	Compressed Air, Vacuum, Nitrogen & portable water made from epoxy coated brass with flexible PU hose pipe connections passing through the side of panels.
Electric Panel	- Concealed Internal Wiring with all safety norms. - "LEGRAND" Make MCB for blower ON/OFF - "LEGRAND" Make 5/15 Amp Switches & Sockets - 6Nos - "LEGRAND" Make 5/15 Amp Switch for LED light ON/OFF
Under Storage Cabinet	1.2mm GI construction / SS 304-316 2 Modules with 4 shutters (Double skinned) Adjustable Shelves for storage the material Heavy duty "KITCH" SS 304 hinges for durability
Under Storage Cabinet	1.2mm GI construction / SS 304-316 2 Modules with 4 shutters (Double skinned) Adjustable Shelves for storage the material Heavy duty "KITCH" SS 304 hinges for durability
Powder Coating	POLYCOAT / RAL / Nice Coat / AkzoNobel The pre-treated steel parts will be coated with and electrostatic applied epoxy powder paint to a min 70-80 microns and oven baked at 200 Degree with 5 tanks chemical process.



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INTEGRITY
EQUIPMENT & TECHNOLOGY



HOT AIR OVEN

A hot air oven is an essential laboratory equipment that uses to dry heat (hot air) to sterilize laboratory objects and samples. This type of sterilization is also known as dry heat sterilization.

- **Timer**
- **Thermostat**
- **Uniform Heating**
- **Temperature Control**
- **Digital Display**
- **Stainless Steel Interior**
- **Adjustable Shelves**
- **Air Circulation System**



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Water Bath

Double walled chamber outer made of mild steel and duly powder coated and inner chamber made of stainless steel. Glass wool packing between the two walls to avoid heat loss. Heating will be of immersion type heater and controlled by a capillary type thermostat. The instrument will be supplied with concentric rings





INTEGRITY
LABORATORY & TECHNOLOGY



HOT PLATE

IET offers you wide range of laboratory hot plates; available in different sizes and temperature ranges. We make laboratory hot plates in both rectangular and round shapes with surface temperature range up to 350°C and optional 500°C. Heating surface is made of either MS, Stainless Steel or Cast Iron. Temperature is controlled through energy regulator or digital PID controller which efficiently controls temperature and also displays set value and process value. Other cabinet is made of powder coated mild steel. These lab grade heating plates are light weight and durable, and can be bought at reasonable price in India.



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Plate design	Rectangular and Round
Temperature	Up to 300°C
Heating plate surface	Stainless Steel 304 / Mild Steel / Cast Iron
Cabinet MOC	Powder coated MS
Controller	Thermostatic controller
Power supply	220 Volts 50Hz
Optional	<ul style="list-style-type: none">·Digital temperature controller·Temperature up to 500°C



INTEGRITY
TECHNOLOGY & INNOVATION



Work Benches

Modular box workbenches, also known as modular workstations or benches, are versatile and customizable furniture solutions designed to meet the specific needs of various work environments such as laboratories, workshops, manufacturing facilities, and offices

Features

- Adjustable Height
- Work Surfaces
- Storage Options
- Aluminum or Steel Framework
- Electrical Outlets
- Power Strips
- Storage Options
- Ergonomic Design



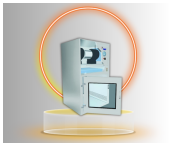


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DYNAMIC PASS BOX

Steel Furniture is known for the manufacturer and supplier of the best quality Dynamic Pass Box with high accuracy.

Dynamic pass box is used to transfer material from an uncontrolled environment to controlled environment. It works like an airlock. It may be cascade, Sink and Bubble type. Dynamic pass box has a system which is known as interlock guard located on both sides. An interlock monitor framework controls the in let and the out let of PASS BOX not be opened simultaneously, so as to forestall the cross pollution



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Dynamic pass box

Cleanliness	Dust counts exceeds Class 100 requirements as per ISO 14644 & IEST-RP-CC001.3
Velocity at Grill	90 ± 20 FPM at 150 mm From HEPA Filter Face, (0.45 ± 0.05 m/s)
MOC	SS 304 / SS 316 (1 mm / 1.2 mm) SS 304 Door Hinges and Door Handles
Pre Filter	5 Micron, EU5 grade with Efficiency 95% – Washable (For Fresh Air & Recirculation) (Make: AAF) (American Air Filter)
HEPA Filter	0.3 Micron, H14 Grade with Efficiency 99.999%, Supply "AAF" HEPA Filter
Controller	Electromagnetic Door Interlocking (Allows to open one door at a time) 1 Year warranty from the date of dispatch for Pass Box Controller set (Magnet, Display, Connection Cables)
Motor Blower	Statically & Dynamically Balanced Single/Double Inlet Centrifugal Type Motor Blower (1 Year warranty from the date of dispatch for Motor Blower in case of any damage or fault after a year , New Blower will be charges as Extra.)
Magnehelic Gauge	0 to 25 MM, To measure differential pressure across HEPA Filter (Make: Omicron / Care / Nextech)
Speed Variable	To adjust the speed of Motor Blower and maintain the required velocity



Dynamic pass box

<p>Electrical</p>	<p>LED Light :- Diffused Fluorescent Lighting to provide an intensity of 300 LUX</p> <p>UV Light :- 8W-11W (Make: Phillips) (Phillips does not provide warranty for UV Lights.</p> <p>Fitting for UV Light has 6 Months Warranty from the date of Supply.</p> <p>Display :- Two Line Digital Display with ON/OFF Buttons with LED Indication</p>
<p>Special Features</p>	<p>→ Double Skin Body Construction, Recirculatory Plenum on Both Sides</p> <p>→ Door Open / Close Delay Audio Visual Alarm UV Hour Meter (inbuilt)</p> <p>→ 30 MM Double Skin Doors with View Panel</p> <p>→ Double Side 5 mm Toughened Glass</p>
<p>Noise Level</p>	<p>Less than 65 DB on scale</p>
<p>Power supply</p>	<p>230V ± 10V, 50 Hz, Single Phase (Also Available in 3 Phase)</p>
<p>Documentation</p>	<p>230V ± 10V, 50 Hz, Single Phase (Also Available in 3 Phase)</p>
<p>Validation</p>	<p>Validation Charges Extra Air Velocity Particle Count Recovery Test Integrity test Smoke Study</p>



INTEGRITY
CONSTRUCTION & TECHNOLOGY



Static pass box

Features

- Material Transfer
- Airflow Control
- UV-C Sterilization
- Interlocking Systems
- Air Shower Pass Box
- Air Shower Pass Box



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Island Table



Features

- Storage Options
- Seating Arrangements
- Electrical Outlets
- Versatility in Design
- Utility Sinks
- Decorative Element

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Chemical Storage

Chemical storage cabinet has 4 adjustable shelves and 1 fixed shelf. Phenolic resin epoxy lining coating inside due to store toxic chemicals inside of the cabinet. Exhaust duct line with flange on the top side as per requirements.

Features

- Segregation
- Containers
- Ventilation
- Temperature Control
- Shelving and Storage Units
- Emergency Equipment
- Inventory Management
- Documentation
- Waste Disposal



Chemical Storage

MOC	GI (Galvanized) Construction (Imm)
Body & Doors	GI (Galvanized) Imm constructed with double skinned
Overall Size	L900 X D450 X H1830 (In mm)
Shelves	Center shelf fixed and 4 shelves height adjustable
Hardware	<ul style="list-style-type: none"> -Hinges: - "KITCH" Corrosion resistant SS 304 Knuckle butt Hinges -Handles: - "H" type Handles -Locks: - Hettich Make
FRP Lining	2mm FRP lining process for chemical resistance
Suction Pipe	Dia150 mm with Flange
Powder Coating	70-80-micron high epoxy powder coated.



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