

Vitech
VISION WITH TECHNOLOGY

GET

VITECH

**YOUR VISION
OUR EXPERTISE
SOLUTIONS
FOR YOUR
SURFACE
TREATMENT
PLANTS**





Established in 1993, VITECH has been a pioneer in the field of surface coating solutions, at a time when this domain was relatively unexplored and dependent on imported technology. Our founder and Managing Director, Mr. X Arokianathan, a former ISRO Scientist, recognized the immense potential in this field and took the bold step of developing indigenous Paint Shop equipment, specifically designed for tropical operating conditions. Over the years, we have evolved into a trusted name in the industry, offering state-of-the-art Paint Shop systems tailored for a wide range of industrial applications.

Our In-house design engineers, equipped with strong fundamentals and deep technical knowledge, are committed to delivering cost-effective, efficient, and sustainable coating solutions. Many of our systems have been operating reliably for over a three decade, delivering exceptional performance and ROI for our customers. Our legacy of durability, precision, and after-sales support continues to be our strongest testimonial.

WHAT WE OFFER

SURFACE FINISHING SYSTEMS

- ***PRE - TREATMENT PLANT***
- ***LIQUID PAINT PLANT***
- ***POWDER COATING PLANT***
- ***PAINT CURING OVEN***
- ***SHOT BLASTING***

AIR POLLUTION CONTROL SYSTEM

- ***DUST COLLECTORS***
- ***FUME EXTRACTION SYSTEM***
- ***SCRUBBERS***
- ***RECOVERY SYSTEMS***
- ***VOC CONTROL MONITORING SYSTEMS***

WHY TO CHOOSE VITECH

- ***Proven Expertise & Experience***
- ***Customizable, Scalable Solutions***
- ***Robust Support & After-Sales Service***
- ***Commitment to Quality & Compliance***



Let us help you achieve your goals with world-class product and service backed by dedicated support and innovation.

PRE TREATMENT PLANT

DIP (IMMERSION)

- Complete immersion in sequential chemical tanks (degrease, clean, rinse, conversion, passivation) ensures thorough coverage—even on complex shapes
- Highly effective for large/odd-shaped parts, ideal where overhead conveyors aren't feasible
- Simple, reliable operation — immersion and dwell controlled via hoists or automatic transporter.



SPRAY (TUNNEL)

- High-pressure spray through nozzles provides uniform, controlled chemical coverage, ideal for high-volume production
- Efficient, resource-saving—uses less solution, heated spray, and integrated oil-skimming systems
- Flexible & scalable - conveyor-based system handles various shapes, sizes, and continuous flow.

DRY OFF OVEN

Dry-Off Oven, is an industrial oven used after the pre-treatment process to evaporate moisture from the surface of components before they enter the painting or powder coating stage. It ensures the part is completely dry, preventing paint defects like blistering, poor adhesion, or corrosion.



- Remove water or moisture from parts after cleaning or pre-treatment.
- Ensure better paint/powder adhesion and coating quality.
- Maintain production speed by drying parts efficiently.

TYPES OF PAINTING BOOTH

- **Fully Automated and Semi Automated Paint Booth**
- **Dry Type Paint Booth**
- **Wet Type Paint Booth**
- **Down Draft Paint Booth**
- **Cross Draft Paint Booth**
- **Side Down Draft Paint Booth**
- **Collapsible Paint Booth**
- **Paint Booth For Aero Space and its components**



AUTOMATED PAINT BOOTH

- Fully automated spray system with robotic arms or reciprocators
- Downdraft / Crossdraft airflow technology for superior air movement
- Dry filter or water wash type extraction system
- Automatic part sensing and indexing for precise control
- Energy-efficient lighting and ventilation systems

SEMI-AUTOMATIC PAINT BOOTH

- Manual spray with automated booth functions (lighting, airflow, exhaust)
- Reciprocator/Auto Gun Integration as optional upgrade
- Dry type or water wash type extraction system
- Balanced airflow design – downdraft / side draft / cross draft
- Illuminated interior with flameproof lighting
- Efficient overspray capture with filter media or water curtain



DRY TYPE PAINT BOOTH

- Multi-layer dry filter system for efficient overspray arresting
- Modular construction with galvanized or powder-coated panels
- Customizable booth sizes for small parts to large components
- Bright, shadow-free lighting with flameproof fixtures
- Low noise and energy consumption design

WET TYPE PAINT BOOTH

- Spray painting is done inside the booth.
- Air containing paint mist is drawn toward a water curtain or scrubbing chamber.
- Paint particles are trapped in circulating water.
- Exhausted air is filtered and safely discharged into the atmosphere.
- The contaminated water is collected and treated with sludge separator.



DOWN DRAFT PAINT BOOTH



- Filtered fresh air enters from the booth ceiling.
- Air flows straight down over the component (uniform vertical airflow).
- Paint overspray and dust particles are pushed downward.
- Exhaust grates in the floor pull the air and overspray into filters or water scrubbers.
- Down draft booth application is widely used for painting large structures, vehicles and heavy components.

CROSS DRAFT PAINT BOOTH

- Fresh air enters from the front intake filters or top inlet.
- Air flows horizontally across the booth from front to back.
- The operator paints the part while overspray is carried with airflow.
- Overspray is captured in rear exhaust filters.
- Filtered clean air is discharged via duct and blower.



SIDE DOWN DRAFT PAINT BOOTH

- Filtered fresh air is drawn in from ceiling filters.
- Air flows downward and toward the sides of the booth.
- Overspray and airborne particles are captured in side-mounted exhaust filters at floor level.
- Clean air is then exhausted through ducting by exhaust blowers.
- Side down draft booth application is widely used for painting large structures, vehicles and heavy components where down draft pit cannot be provided.

COLLAPSIBLE PAINT BOOTH

- A Collapsible Paint Booth is a foldable, mobile spray booth designed for small-scale or space-constrained operations.
- It can be expanded during use and folded back when not in operation, making it ideal for touch-up jobs, mobile service, or multi-use workshop spaces.
- The booth is manually or electrically extended before painting.
- Ideal for large products and low volume production.



CLEAN ROOM PAINT BOOTH FOR AERO SPACE COMPONENTS



- An Aerospace Paint Booth is a high-performance spray booth engineered to meet the stringent requirements of the aerospace and defense industries. These booths provide controlled airflow, temperature, humidity, and contamination-free conditions for painting aircraft parts, fuselage sections, wings, interiors, and defense equipment.
- High-quality finish required for aerodynamics and corrosion protection
- Sensitive components need dust-free, static-free, climate-controlled environments
- Meeting standards like NADCAP, MIL-SPEC, or aerospace OEM specs

High-Performance, Eco-Friendly, Engineered for Excellence.

At VITECH, our Powder Coating Units are designed to meet the growing demand for durable, high-quality finishes while ensuring environmental compliance and operational efficiency. With robust construction, energy-efficient operation, and precision-engineered components, our systems are trusted across industries including automotive, valves, pumps and motors, constructions and mining equipment's, electrical and transformer sectors, sheet metal fabrication, and general engineering.



Powder Coating Equipment's and Components:

- Powder Spray Booth (Dry Type with Recovery)
- Powder Coating Gun System (Manual/Automatic)
- Conveyor System (Optional)
- Curing Oven (Batch or Continuous)
- Control Panels & Safety Interlocks

Why Choose VITECH Powder Coating Units?

- Over 30 years of engineering expertise
- Custom designs to fit your production line
- Quick installation & comprehensive support
- Low operating cost & minimal maintenance



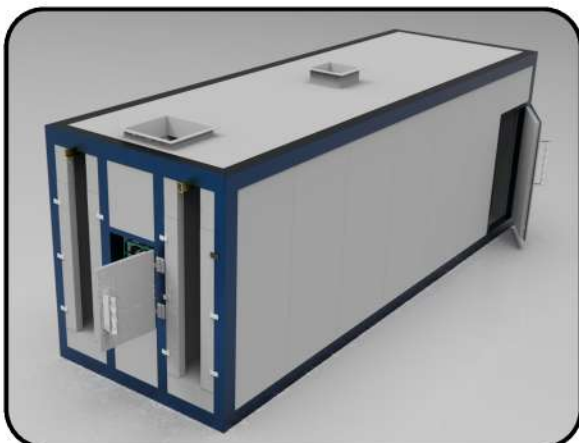
Batch Type & Conveyorized Options

- ✓ **Advanced Powder Recovery System**
 - Multi-cyclone and cartridge-based filters.
 - Maximizes powder reuse, reducing wastage and cost.
- ✓ **Uniform Coating Application**
 - Integrated with high-performance manual or automatic guns.
 - Smooth, consistent coverage with minimal overspray.
- ✓ **Efficient Curing Ovens**
 - Electrically or gas-heated.
 - Uniform heat distribution for optimal adhesion and finish.
- ✓ **Eco-Friendly Operation**
 - No VOCs, solvents, or hazardous waste.
 - Meets latest environmental regulations.

PAINT CURING OVEN

PRECISION CURING FOR LASTING PERFORMANCE

- Paint curing Ovens are the heart of VITECH's Powder Coating Systems—engineered to deliver consistent temperature, superior curing, and energy efficiency. Designed for batch or continuous production lines, these ovens ensure optimum powder fusion on all coated surfaces, resulting in a durable, high-gloss, and corrosion-resistant finish.



- ✓ **Precise Temperature Control**
- ✓ **Fuel Options**
- ✓ **Safe and Compliant**
- ✓ **Uniform Heat Distribution**
- ✓ **Customizable Sizes & Configurations**
- ✓ **High Thermal Efficiency**

AIR POLLUTION CONTROL EQUIPMENT



CLEAN AIR, SAFE WORKPLACES, SUSTAINABLE FUTURE.

At VITECH, we design and manufacture high-efficiency Air Pollution Control Systems that help industries maintain environmental compliance while ensuring clean, safe, and productive workplaces. Our systems are engineered to capture, filter, and neutralize harmful emissions, dust, fumes, and vapors generated in industrial processes.

OUR CORE PRODUCT RANGE:

- Dry Dust Collection Systems
- Wet Scrubbers
- Fume Extraction Systems
- Multi-Stage Filtration Units



KEY FEATURES:

- ✓ High-efficiency pollutant capture
- ✓ Custom-built for process-specific needs
- ✓ Corrosion-resistant materials (SS, FRP, coated MS)
- ✓ Compact footprints, easy maintenance
- ✓ Designed to meet CPCB, ISO, and MoEF guidelines

INDUSTRIES WE SERVE:

- Surface Coating & Paint Shops
- Chemical & Pharma Plants
- Automotive & Fabrication Units
- Food & Beverage
- General Manufacturing

WHY VITECH?

- Over 30+ years of engineering excellence
- Proven installations across India
- End-to-end support design, insulation and after sale service
- Focus on sustainability & worker safety



VITECH ACTIVATED CARBON DRY SCRUBBER

Efficient VOC Removal for Clean Air Solutions

✓ Overview

- Activated Carbon Scrubbers are designed to adsorb and remove Volatile Organic Compounds (VOCs), odorous gases, and chemical vapors from industrial exhaust streams. These systems offer high-efficiency filtration using impregnated activated carbon media tailored for specific pollutants.
- VITECH's Activated Carbon Scrubbers help industries reduce emissions, protect the environment, and create safer workspaces, ensuring compliance with green manufacturing goals.

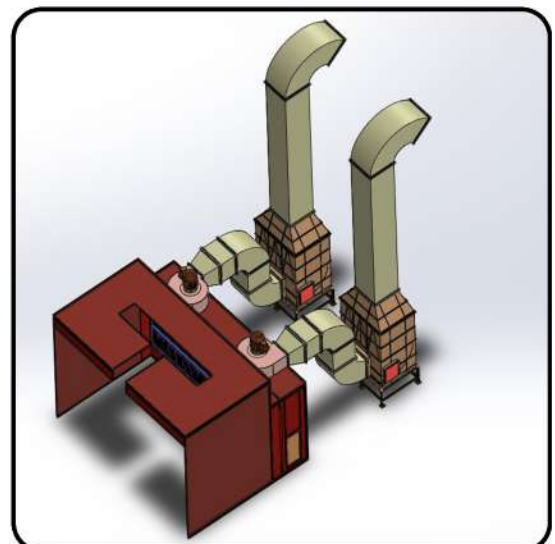


DESIGN FEATURES

- Modular construction for easy maintenance and scalability
- High-grade activated carbon (granular or pellet form)
- MOC options: SS304, SS316, FRP-lined MS, or complete FRP
- Pre-filtration systems to extend carbon life
- Pressure gauges & sampling ports for system monitoring
- Optional: VOC sensors, automation & alarms

APPLICATIONS

- Paint Shops & Powder Coating Plants
- Chemical & Pharmaceutical Industries
- Printing & Packaging Units
- Resin & Lamination Units
- Industrial Solvent Handling



AUTOMOTIVE



PAINT MANUFACTURERS



ELEVATORS MANUFACTURERS



OTHER SECTORS



VALVES, PUMPS AND MOTORS



ELECTRICAL SECTORS



**ENERGY EFFICIENT
PAINTING LINES**

**STATE OF ART
TECHNOLOGY**



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