



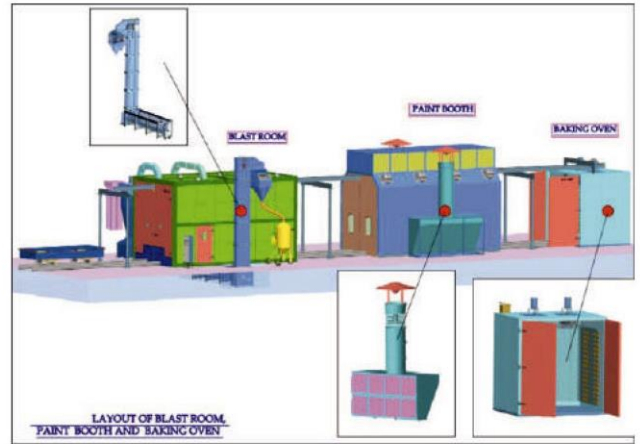
# FINIPRAK ENGINEERS

Your One Stop  
Solution For Surface  
Finishing

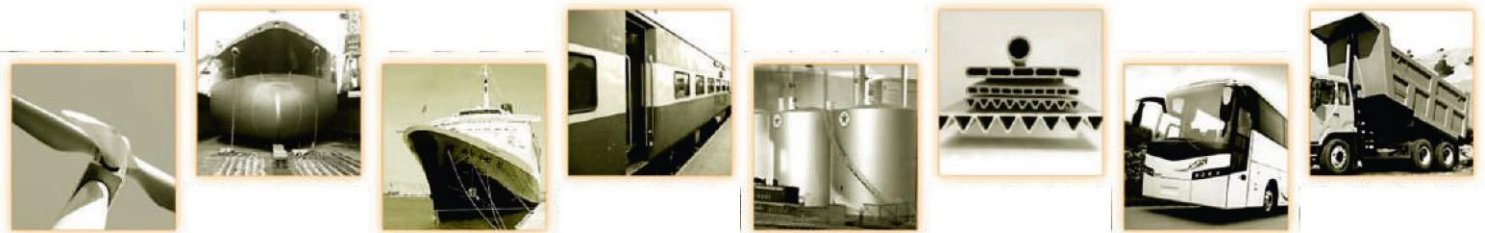


# FINIPRAK Capabilities

1. Design & Development
2. Assembly & Manufacturing
3. Installation & Commissioning
4. After Sales Service including supply of spare parts, consumables & continuous service support.
5. Skilled technical, application & service staff.
6. Efforts are done to develop new application, process, products in surface preparation technology.



# Applications



# Before & After



Engine Component



Steel



Product Pipe



Structural Steel



# FINIPRAK-BLAST ROOM Introduction

Blast room equipment is used in a wide variety of industries that require surface preparation prior to application of a protective coating. The surface of the work piece is cleaned by a mixture of abrasive and high pressure compressed air being directed at the work piece by blast nozzle.

The blast room contains the abrasive being shot at the work piece, as well providing lighting & ventilation of the operator's safety.

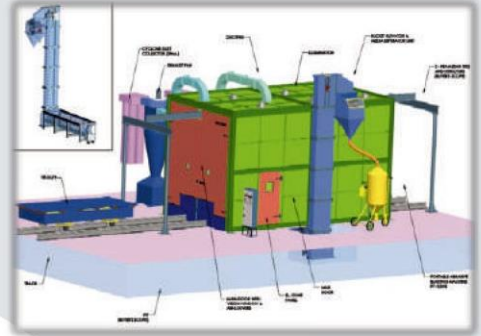
FINIPRAK offers a variety of blast room designs and room configurations which allow us to design a blast room facility uniquely tailored to meet the economic production, safety and environmental concerns of each customers. The layouts of complete Blast Room System are always different from plant to plant, every blast room must be designed independently depending upon the customer's requirement.

FINMAC offers variety of Blast Room designs and system configurations which allow us to design a blast room facility uniquely tailored to meet the economic production, safety & environmental concerns of each customers.

## FINIPRAK-BLAST ROOM Essential Parts

### An efficient Blast Room System consists of :

- 1 ENCLOSURE
- 2 ABRASIVE BLASTING MACHINE
- 3 SAFETY WEARS
- 4 DUST COLLECTORS
- 5 BLASTING MEDIA RECOVERY & SEPARATION SYSTEM



## FINIPRAK -BLAST ROOM The

The modular blast room is specially ventilated and illuminated for enclosed abrasive blasting, and is a fully sealed, dust tight, all steel structure. The components are prefabricated for simple bolt-together erection, with little or no job site welding required. The enclosure stands by its own structural support without connections to the surrounding facilities. Internally, the enclosure has no areas, other than the floor, where airborne media or dust may be captured. The size of the enclosure depends on.

**(1) the size of the job (2) number of operators & (3) adequate working space around the job.**

## FINIPRAK -BLAST ROOM Abrasive Recovery & Separation

### ABRASIVE RECOVERY SYSTEM

All abrasive recovery system include three basic functions :

1. Delivering the abrasive which rebounds off the work piece to a central recovery point.
2. Transporting the abrasive from that central point to an abrasive cleaner.
3. Removing dust, fines & other unwanted material from the abrasive before it enters the blast machine for re-use.

### MECHANICAL RECOVERY SYSTEM

Consists of Screw Conveyor System, Bucket Elevator & Abrasive Cleaner.

### PNEUMATIC RECOVERY SYSTEM

AE Unit, Vacuum Recovery, Mini Hopper System consist of Plenum, Reclaimer & Dust Collector.

## FINIPRAK -BLAST ROOM Mechanical Recovery

THE FLOOR DESIGN YOU SELECT WILL DETERMINE THE CAPABILITIES OF THE ROOM, THE DEGREE OF LABOUR INVOLVEMENT, COST OF PURCHASE & INSTALLATION AND RETURN ON YOUR INVESTMENT.

### Screws

The floors utilize a heavy duty screw to return the abrasive to the separator/classification system.

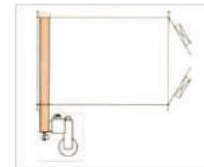
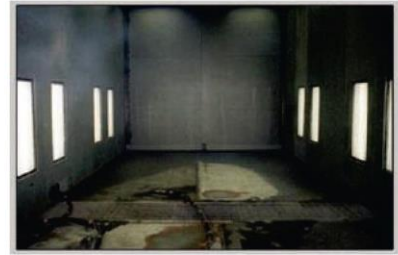
1. Single Screw Partial Recovery
2. H Shape Partial Recovery
3. U Shape Partial Recovery
4. Full Floor Recovery



# FINIPRAK-BLAST ROOM Floor Design (Mech.)

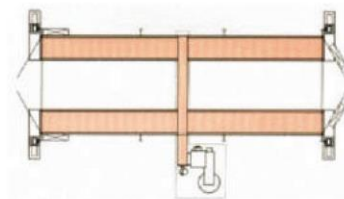
## Single Screw Partial Recovery

This is the most economical floor design available. The system contains the major components found in all FINIPRAK Blast Room Equipment Reclaim Systems, including metering shed plates, heavy-duty screw, belt & bucket elevator, air-wash separator, perforated plate rotary drum separator and oversized abrasive storage hopper with a caged man ladder & handrail. This is a basic "automatic reclaim package that can be expanded to an "H", "U" or Full Floor reclaim system. It is best suited for low to medium productive levels.



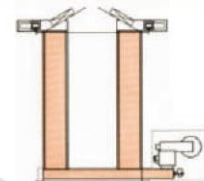
## "H" Shaped Partial Recovery

The "H" shaped partial reclaim system adds two longitudinal metered screw assembly along each side wall of the blast room. The position of the screw assembly allows the abrasive delivered from the blasting nozzle, which is either blown or rebounded of the work piece, to strike the side walls and fall into the screws, automatically reclaiming approx. 60 – 90% of the blast media. The H shaped floor design is typically utilized in a "flow-through" room configuration where heavy work piece can drive into the room. This is best suited for medium to high production.



## "U" Shaped Partial Recovery

The "U" shaped partial reclaim system adds two longitudinal metered screw assembly along each side wall of the blast room & positions the cross screw along the back wall of the blast room. A "U" shaped floor design will automatically reclaiming approx. 60 – 90% of the blast media & remaining abrasive on the floor is pushed into the metered shed plate screw assembly at the end of the work shift. The "H" shaped floor design is typically utilized in a "flow-through" room configuration where heavy work piece can drive into the room. This is best suited for medium to high production.



## Full Floor Recovery

The full floor reclaim system utilizes multiple screw assembly to create a fully automatic abrasive reclaim system, where 100% of the blast media is returned to the separator system during the blasting operation. The full floor reclaim design requires that the material handling of the work piece be intricately designed into the configuration of the room. The full floor reclaim design can be used with any room configuration. This system is best suited for high production requirement.

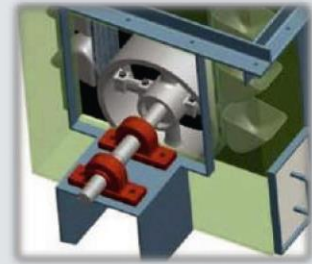


## FINIPRAK-BLAST ROOM Mech. Recovery



### Bucket Elevator

The buckets are of seamless type made of 3.15 mm thick steel sheet. Bucket Elevator is fabricated from MS material of 5 mm thick at boot section 3.15 mm thick at trunk and top sections.



### Blast Generator

Blast tanks are positioned directly under the abrasive storage hopper & gravity feed. A covered riser assembly filters the abrasive through a perforated plate screen and contains the abrasive when the tanks exhaust, preventing abrasive leakage that may collect in the area.

## FINIPRAK-BLAST ROOM Abrasive Cleaner

### Abrasive Cleaner

The media separation unit is a air wash rotary screen separator which receives all media and debris from blasted work piece by the bucket elevator. Contaminants are removed by rotary screen and are discharged through a chute. The finer contaminants are abrasive that passes through the screen then cascade over the air wash where fine contaminants and small abrasive particles are removed. Reusable abrasive falls in the machine.



## FINIPRAK-BLAST ROOM Pneumatic Abrasive Recovery



AE Unit



Vacuum Recovery Unit

# FINIPRAK SHOT-BLAST ROOM Dust Collector

Choice of the correct model of dust collector is integral to any closed environment blasting system. It is very essential to remove dust and fine abrasive particles from the environment of the blast chamber to maintain the efficient operation. The dust collectors are broadly classified into three types (1) Cyclone Type (2) Fabric Bag (3) Pleated Bag (4) Cartridge Filter Type. In operation, the exhauster fan on the clean air side of the collector draws dust laden air from the blast room through the filter bags.



# FINIPRAK-BLAST ROOM Optional Equipment



**Work Car or Trolley  
(Manually or Electrically Driven)**

We offer a wide range of sizes and load capacities in work cars.



**Scissor Lift / Operator Platform**

Scissor Lift or Operator Platform can be opted for operator's to do Side wall or Roof Blasting at Heights



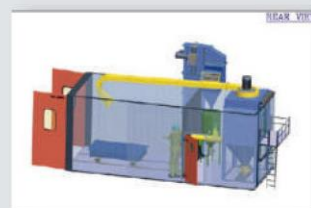
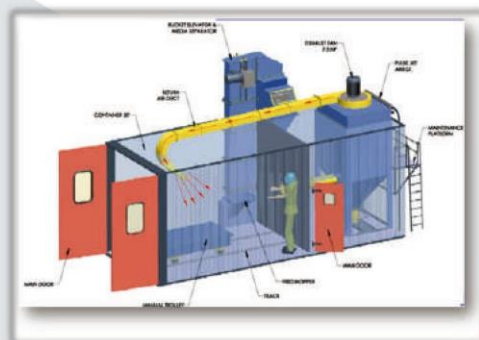
**Overhead Material Handling**

Monorail cranes can be opted as material handling device in a blast room.

# FINIPRAK-Containerized Blast Room



FINIPRAK offers a Containerized blast room system for on site blasting requirements for portable or movable blasting system .



# PAINT SPRAY BOOTH

Spray booth is an investment that pays rich dividends by providing superior quality Finish, increase in productivity & better working conditions.



## FINIPRAK Paint Spray Booth

DESIGN TYPES OF PAINT SPRAY SYSTEMS BASIC DESIGN TYPES OF DRY TYPE SYSTEMS HAVING DRY TYPE PAINT TRAP FILTER WITH INTAKE AIR FILTER

1. DOWN DRAFT DESIGN
2. LINEAR / CROSS DRAFT DESIGN
3. SEMI DOWN DRAFT DESIGN
4. DRY /CLOSED OPEN TYPE PAINT SPRAY BOOTHS FOR COMPONENTS

WET TYPE – WATER CIRCULATION / CURTAIN OR WATER WASH TYPE

1. DOWN DRAFT TYPE ROOMS WITH WATER CIRCULATION SYSTEMS
2. WET WATER CURTAIN TYPE EXHAUST SYSTEM FOR BLAST ROOM

## FINIPRAK Front Open Paint Spray Booth System

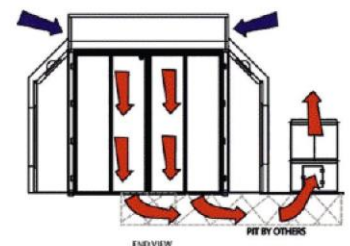
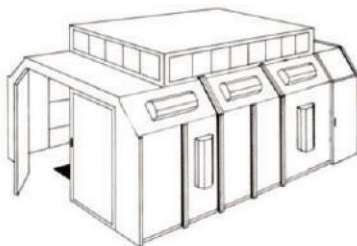


OPEN TYPE PAINT SPRAY BOOTHS WITH WALL SUCTION TYPE DESIGN FOR SMALL COMPONENTS OR FABRICATED COMPONENTS WITHOUT PIT

## FINIPRAK Down Draft Paint Spray Booth

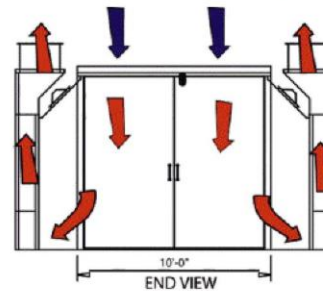
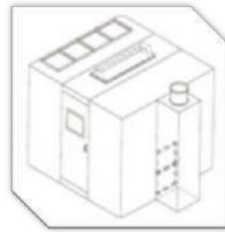
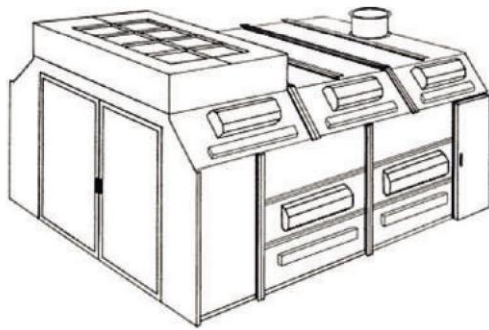
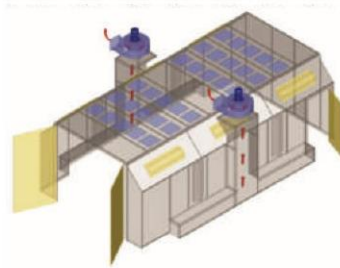


FINIPRAK fully Enclosed Down Draft Dry Type Paint Spray Booth are designed to provide efficient, flexible and clean spray painting. The health and explosion hazardous paint fume particles are sucked by partial vacuum created by centrifugal fan through filters. Thus air discharge into the atmosphere is clean and there is no sludge disposal as found in normal Wet Spray Booth. The design of the paint booth will be of vertical down draft type paint booth with disposable paint trap filters on floor. The intake air into the paint booth is filtered by intake filter to avoid foreign particle deposition on the painted surface. The intake air is sucked into the room by the extraction modules located on the floor



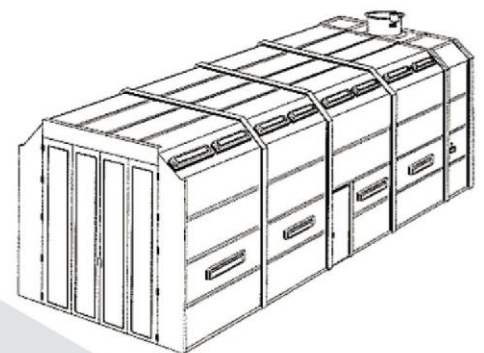
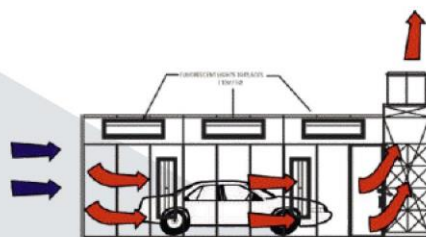
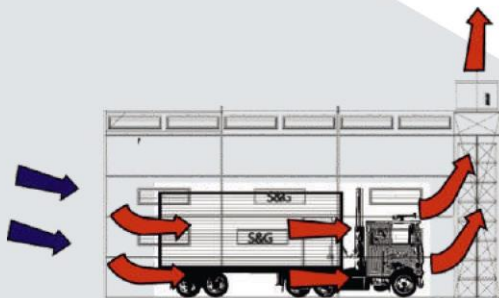
# Semi Down Draft Paint Spray Booth System

FINIPRAK Fully Enclosed Semi Down Draft Dry Type Paint Spray Booth are designed to provide efficient, flexible and clean spray painting. The health and explosion hazardous paint fume particles are sucked by partial vacuum created by Exhaust fan through filters. Thus air discharge into the atmosphere is clean and there is no sludge disposal as found in normal Wet Spray Booth.



# End Draft Paint Spray Booth System

The End Draft (the direction of flow of air is towards the floor of spray booth) Paint Spray Booth is suitable for conventional, air-less and electrostatic spray painting and it consists of painting chamber, Inlet Air Filter, Paint Trap Filters, Exhaust Fan, electric motor, duct and canopy etc. The design of the paint booth will be of End Draft type paint booth with disposable paint trap filters on floor. The intake air into the paint booth is filtered by intake filter to avoid foreign particle deposition on the painted surface. The intake air is sucked into the room by the extraction modules located on the back wall.



# Paint Trap Filter

## Type of Filter & Description Paint Trap Filter

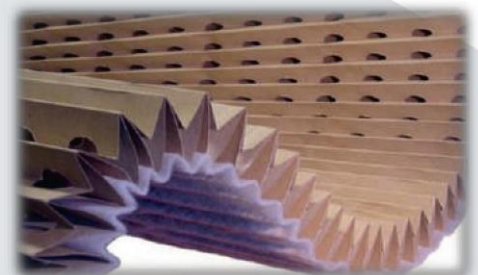
Filtration efficiency : 98.1%

Holding capacity : 18 Kg/sq mtrs

26 Kg/sq mtrs

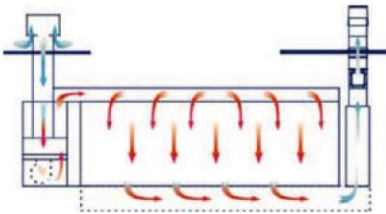
Max pressure drop : 0.52 in WC

Air velocity : 0.5 to 1 Mtrs/sec.





# Salient Features of Paint Spray Booth System



- No sludge disposal.
- All modular construction.
- High particulate removal efficiency.
- Healthy and pollution free work environment.
- Access door window is with clear toughened glass.
- The efficient centrifugal fan guarantees superior air movement & quite operation.
- Special design of intake & exhaust filtration provides for even air movement inside the booth.
- High Dust Holding Capacity of Paint Trap Filter "Andrea" Imported Make Having Holding Capacity of 18 – 26 Kg Per Sq Mtr Holding Capacity i.e. less frequency of Filter Change.

## Inlet Air Pre & After Filter

### Inlet Air Pre Filter

Size : 600 mm x 750 mm x 50 mm thick  
Frame : GI

Construction : Multiple Layer of Mesh  
Filter Class : EU2

Airflow : 3600 m<sup>3</sup>/Filter/Hr.

I P D : 6 mm WG

F P D : 18 mm WG



### Inlet Air After Filter

Size : 1524 mm [W] x 19 mm Thick x 25 mtr. Roll  
Material : Polyester Graded  
Thickness : 18~20 mm

Weight : 400 GSM

Airflow : 370 CFM/Sq. Ft./Min @12.5 MM wgl P D : 25 a  
F P D : 250 Pa (Can work upto 400 Pa)

Dust Holding : 300 g/sqm

Filter Class : EU4

(\* ) These are details for general guidelines for application and are subject to normal machine



## Benefits at Glance

### ENHANCE QUALITY OF WORK

Remove over spray effectively, thus eliminate its setting on wet painted components.

### OPERATOR COMFORT & HEALTH

Provides clean air to the operator, taking away optimized paint particles through the exhaust.

### SAFETY

Spraying paint may involve fire risk from both solvent vapours and continuously over spray deposits. A risk eliminated by using a spray booth.

### LAW

In compliance with stringent pollution control norms.

### INCREASE PRODUCTIVITY

FINIPRAK has now developed a newest range of spray booths which feature less power, less floor space &

# Water Curtain Type Paint Spray Booth System



Paint Spray Booth with Water Curtain Type Wet Fume Collect is used for safe, healthy and quality spray painting. The health and explosion hazardous paint fume particles are sucked by the partial vacuum created by the exhaust fan through a curtain of water. Thus, air discharge into the atmosphere is clean and keep the working environment clean and friendly.

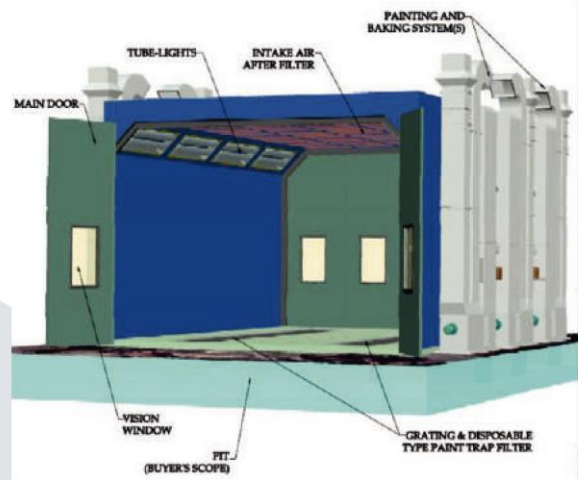
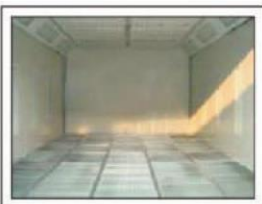
## Baking Oven

The baking oven is normally used for baking the paint/ powders coatings on the substrates to increase bonding life of painting / coating. The baking oven is carried out by the operator by setting the required temperature. The baking heat generated by using different method of baking as LPG or Diesel Burners, Electricals Heaters etc. FINIPRAK produces the baking oven / heating chamber in the various sizes as per customer requirement.



## Pressurized Paint Cum Baking Oven

The Pressurized Paint Cum baking oven is used for Low production requirement and for heavy jobs where material handling is difficult. In same booth painting and baking can be done.



## SITE INSTALLATIONS PHOTOS

