



Finishree Equipment's Pvt. Ltd.

(Total Surface Finishing Systems)

*Your One Stop
Solution For Surface
Finishing i'e*

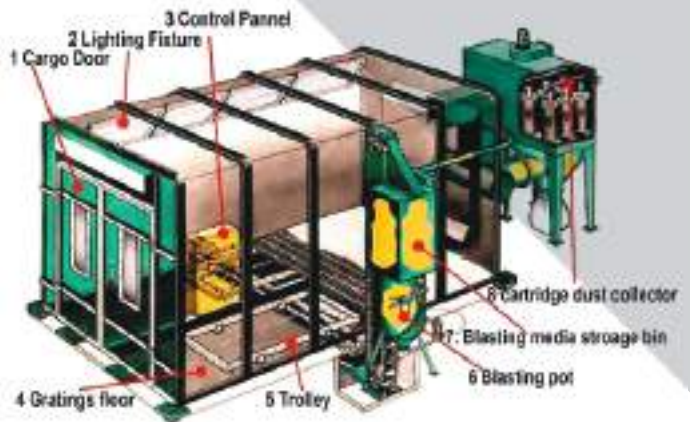
- **Blast Room System**
- **Paint Spray Booth**
- **Baking Oven**



FININSHREE - 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
- 6 OPTIONAL EQUIPMENT



FINISHREE-BLAST ROOM THE ENCLOSURE

A modular blast room is engineered for enclosed abrasive blasting, featuring robust ventilation and lighting systems for a safe and efficient workspace. Its dust-tight, all-steel construction ensures that it remains completely sealed, reducing any escape of abrasive media or dust. The prefabricated components facilitate easy assembly, with minimal on-site welding required, while the structure is self-supporting, eliminating the need for connections to other facility structures.

Internally, the design prevents dust accumulation on surfaces other than the floor, which optimizes cleanliness and reduces maintenance. The size of the blast room can vary based on the following factors:

(1) the size of the job (2) Number of operators (3) Adequate working space around the job.

FINISHREE-BLASTROOM ABRASIVE RECOVERY & SEPARATION SYSTEM

The Abrasive Recovery System is essential in enclosed abrasive blasting setups, enabling the efficient reuse of abrasive media. It performs three fundamental functions to ensure a clean, sustainable blasting process:

1. **Abrasive Collection:** Gathers the abrasive media that rebounds off the workpiece, directing it to a central recovery point.
2. **Abrasive Transport:** Moves the collected abrasive from the central point to an abrasive cleaning unit.
3. **Abrasive Cleaning:** Filters out dust, fines, and other contaminants from the abrasive media, ensuring that only clean, reusable abrasive is reintroduced into the blast machine.

MECHANICAL RECOVERY SYSTEM

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

PNEUMATIC RECOVERY SYSTEM

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

FINISHREE-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.

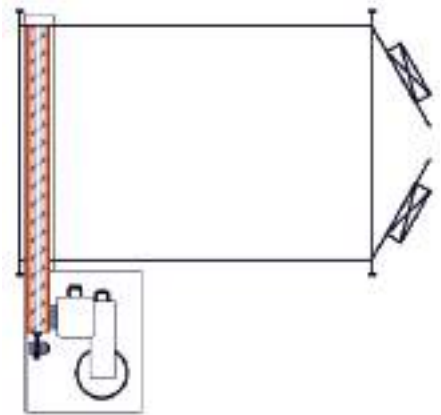
1. Single Screw Partial Recovery
2. H Shape Partial Recovery
3. U Shape Partial Recovery
4. Full Floor Recovery



FINISHREE-BLAST ROOM FLOOR DESIGN (Mech.)

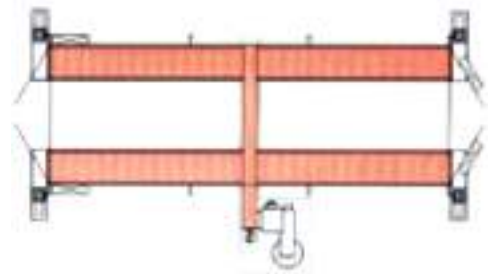
SINGLE SCREW PARTIAL RECOVERY

The Single Screw Partial Recovery System is a budget-friendly floor design for blast rooms, ideal for low to medium production levels. This system includes essential components like metering shed plates, a heavy-duty screw conveyor, belt & bucket elevator, air-wash separator, rotary drum separator, and an oversized abrasive storage hopper. It offers efficient, automatic abrasive reclaim and is easily upgradable to "H", "U", or Full Floor reclaim configurations, maximizing versatility and cost-efficiency for growing operations. Perfect for facilities seeking economical, scalable blast room solutions.



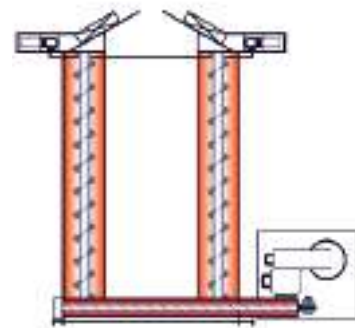
"H" SHAPED PARTIAL RECOVERY

The "H" Shaped Partial Reclaim System is a high-efficiency blast room floor design with dual side-wall screws that recover 60–90% of abrasive media automatically. Perfect for "flow-through" configurations, this setup supports direct entry of heavy workpieces, making it ideal for medium to high production levels. This design boosts productivity and optimizes abrasive usage for cost-effective blast room operations.



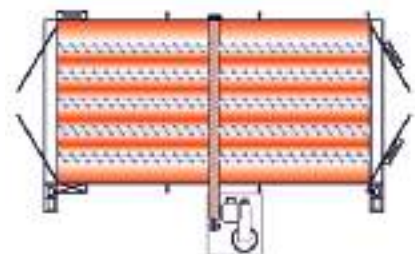
"U" SHAPED PARTIAL RECOVERY

The "U" Shaped Partial Reclaim System features side and back wall screw assemblies, reclaiming 60–90% of blast media automatically. Any remaining abrasive is pushed into the screw assembly at the end of the shift. Ideal for "flow-through" configurations, this design supports heavy workpiece entry, making it perfect for medium to high production environments. Optimize abrasive recovery and enhance efficiency with

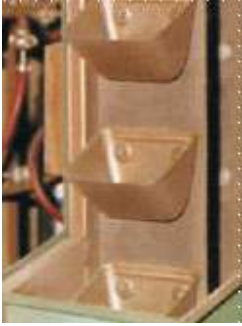


FULL FLOOR RECOVERY

The Full Floor Reclaim System provides 100% automatic abrasive recovery, using multiple screw assemblies to return all blast media to the separator. Ideal for high production environments, this system ensures maximum abrasive reuse and efficiency. Compatible with any room configuration, it's perfect for businesses seeking optimal performance and cost savings.

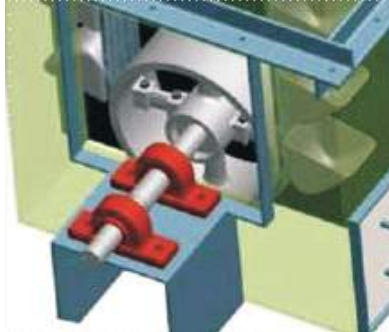


FINISHREE-BLAST ROOM Mech. Recovery



Bucket Elevator

The **Bucket Elevator** is built with seamless buckets from 3.15 mm thick steel and a sturdy MS frame, with 5 mm thickness at the boot section and 3.15 mm at the trunk and top. Designed for durability and efficient abrasive handling, it ensures long-lasting performance.



Blast Generator

Blast Tanks are strategically placed under the abrasive storage hopper for efficient gravity feed. The covered riser assembly filters abrasive through a perforated plate screen, ensuring clean media flow. It also contains the abrasive during tank exhaust, preventing leakage and maintaining a clean workspace.



FINISHREE ABRASIVE CLEANER

The **Media Separation Unit** is an air-wash rotary screen separator that efficiently removes debris and contaminants from the blasted workpiece. Media and debris are delivered via the bucket elevator, with larger contaminants filtered out by the rotary screen and discharged through a chute. Finer particles are separated by the air wash, ensuring only clean, reusable



FINISHREE VACUUM RECOVERY UNIT

- Compact and efficient shot blasting system for on-site and localized surface preparation
- Simultaneous blasting and vacuum recovery of abrasive, dust, and debris
- Advanced air-wash separation ensures clean, reusable abrasive media
- Minimal dust emission for a clean and safe working environment
- Reduces abrasive consumption and operating cost
- Suitable for large structures, maintenance work, and confined areas
- Robust Finishree design ensures reliable performance and long service life



FINISHREE-BLAST ROOM BLASTING MACHINE & SAFETY EQUIPMENT



Blast Rooms are generally provided with P7-501R and P7-1001R models. During the blasting process, the dump valve and exhaust valves are closed, the vessels is pressurized and the media is forced out through the feed valve to the nozzle. When the blasting ceases, the vessel is depressurized by opening the exhaust valve. The vessel remains depressurized except when blasting is in process.

The remote control valve provide in the system releases the pressure, stopping the blasting process thereby ensuring safe working conditions for the operator in case the hose & nozzle drops accidentally.



PORTABLE ABRASIVE BLASTERS-SPECIFICATIONS

	P7-150	P7-301R	P7-501R	P7-1001R
Abrasive Capacity Metallic (Kg.)	150	300	500	1000
Sand (Kg.)	65	130	230	460
Volume (Liters)	42	85	142	284
Overall dimensions approx				
Height mm	1110	1290	1370	1610
Diameter mm	360	460	615	760
Weight Kg.	95	140	180	245
Blast Nozzle Tungsten Carbide lined				
Orifice mm [Standard size supplied unless ordered otherwise]	*5 6	*6 5	*8 6,10	*10 8,12
Blast Hose ID (mm)	19	19	25	32
Blast Hose Length (meter)	5	5	7.5	10
Recommended Air Hose ID (mm)	19	19	25	32
Approx Cleaning Rate (Sq.Mtr./Hour) For guidance only	3 to 4	5 to 9	11 to 15	15 to 19
Compressed Air Requirement at 5.63 Kg./sq. Cm (80psi) Cubic meter/minute (CFM)	1.27(45)	2.41(85)	3.85(135)	7.08(250)
Recommended Abrasive size range BS Mesh	30 to 80	25 to 80	16 to 80	12 to 80

FINISHREE SHOT-BLAST ROOM DUST COLLECTOR

Selecting the correct dust collector is vital for any closed environment blasting system to ensure optimal performance. It is crucial to remove dust and fine abrasive particles from the blast chamber to maintain a clean and efficient workspace. Dust collectors are typically categorized into four Types :

1. Cyclone Type
2. Fabric Bag
3. Pleated Bag
4. Cartridge Filter Type.

During operation, the exhaustor fan draws dust-laden air from the blast room through the filter bags, effectively trapping contaminants and keeping the environment clean.



FINISHREE-BLAST ROOM OPTIONAL EQUIPMENT



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

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



Overhead Material Handling

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



Scissor Lift / Operator Platform

Scissor Lifter Operator Platform can be opted for operators to do Side wall or Roof Blasting at Heights

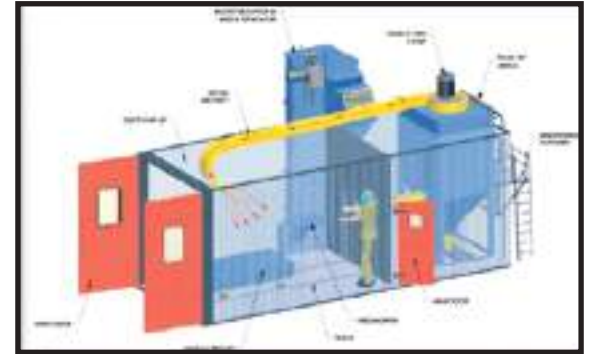
BLAST ROOM ACCESSORIES



VARIOUS TYPES OF BLAST ROOM SYSTEMS

CONTAINER BLAST ROOM SYSTEM

Container Blast Room System is a fully enclosed abrasive blasting chamber designed for surface preparation of metal components. It is a modular, transportable structure that eliminates the need for civil construction. The system includes blasting equipment, abrasive media recovery, and a dust-collector for clean operation. Internal rubber lining protects the chamber from erosion and increases durability. Ideal for rust removal, paint stripping, and coating preparation in fabrication and repair industries.



HYBRID ROBOTIC BLAST ROOM SYSTEM

Hybrid Robotic Blast Room Enclosure combines manual blasting with robotic automation for higher productivity and consistent surface finish. The enclosure is fully sealed with dust control and media recovery systems for clean and efficient operation. Robots handle repetitive or heavy-duty blasting, while operators perform precision touch-up areas. Internal linings protect the chamber from abrasive wear, ensuring long service life. Ideal for large components, complex geometries, and high-volume blast requirements in fabrication and industrial sectors.



ACOUSTIC CUM SHOT BLASTING SYSTEM

Acoustic-cum Shot Blasting System is a specially designed enclosure that controls noise during abrasive blasting operations. The chamber is lined with acoustic panels to reduce sound levels and ensure a safer working environment. Integrated blasting equipment and media recovery systems allow efficient surface cleaning and recycling of abrasive. The design minimizes dust, vibration, and external noise leakage. Ideal for workshops and industrial units operating in noise-sensitive environments.



MULTI CYCLON BLAST ROOM SYSTEM

Multi Cyclone Blast Room System is an enclosed surface preparation chamber designed for continuous shot blasting operations. It uses multiple high-efficiency cyclone separators to recover and recycle abrasive media. The system ensures clean and dust-free working conditions with effective dust collection. It offers consistent blasting performance with lower abrasive consumption. Ideal for large components and heavy-duty industrial applications.



FINISHREE - PAINT BOOTH SYSTEM

Paint Booth System provides a controlled environment for high-quality painting and coating applications. It ensures proper air filtration, ventilation, and fume extraction for worker safety and dust-free finishing.

Types Of Paint Booth System

- Dry Type Paint Booth – Uses dry filters to capture over spray.
- Wet Type Paint Booth – Uses water curtain or water scrubber for over spray collection.
- Down Draft Paint Booth – Air flows from top to bottom for premium finish.
- Side Draft Paint Booth – Air flows horizontally from side to side.
- Cross Draft Paint Booth – Air flows from front to back, economical design.
- Open Face Paint Booth – Front side open for easy loading, used for small/medium parts.
- Pressurized Paint Booth – Provides controlled and clean airflow for high-quality painting.

INDUSTRIAL OVEN / CURING OVEN

Industrial Oven / Curing Oven is designed for baking and curing powder-coated or painted components to ensure strong adhesion and long-lasting finish. It delivers precise and uniform temperature control throughout the chamber for consistent results.

Types Of Industrial Oven

- Electric Heating Oven – Precise temperature control, clean operation.
- LPG / Gas Fired Oven – Fast heating and energy-efficient for large loads.
- Diesel Fired Oven – Suitable for heavy-duty and outdoor installations.
- Batch Type Oven – Components loaded in batches; ideal for varied production.
- Conveyorized / Continuous Oven – Automated curing for high-volume production.
- Box Type / Walk-In Oven – Large door entry for bulky components.
- Top Opening / Vertical Lift Oven – For heavy components loaded from top.
- Infrared (IR) Curing Oven – Rapid surface curing with minimal heating of substrate.



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