ADL BLASTEK

A Diverse Line of Blasting Machines

Pneumatic or Air-Operated

SHOT BLASTING & PEENING MACHINES

Aviation Industries

Railway Industries

Shipping Industries

BLASTROOM SYSTEMS

Our comprehensive range of facilities and abrasive recovery machinery provides solutions for most blast room applications including bead blasting, grit blasting, shot blasting, steel grit blasting and shot peening.

In Industry there are many critical components available which cannot be blast in automatic machines due to the restriction of their geometry, size, or Production output. These types of components are shot blasted in a closed Room, which is equipped with a media recovery system, a Dust Collector and a Portable Abrasive Blaster. These rooms are M.S. fabricated.

Different types of Blast Room Media Recovery Systems

Recessed Hopper Type of Media Recovery System (Manual Recovery System)

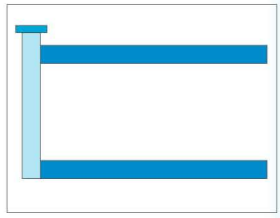
In this type of abrasive recovery systems, a recovery hopper is provided at one corner of the Blast Room along with the bucket elevator unit. After desired blasting operation, for recycling of the media operator has to manually swipe the media from floor level to the recovery hopper. From this hopper media will automatically transfer to the Portable abrasive blaster.

Single Cross Mechanical Screw Conveyor Type of Media Recovery System

In this type of abrasive recovery systems, a single Mechanical Screw Conveyor is provided across the width of the Blast Room at centre/rear side along with the bucket elevator unit. After desired blasting operation, for recycling of the media operator has to manually swipe the media from floor level upto this cross screw conveyor. This cross screw conveyor transfer media upto the boot of the Bucket elevator, which will automatically transfer media to the Portable abrasive blaster.

U-Shape Mechanical Screw Conveyor Type of Media Recovery System

In this type of abrasive recovery systems, Mechanical Screw Conveyors are provided along the length & Width of the Blast Room system in **U-Shape** formation along with the bucket elevator unit. During blasting operation majority of media fall directly into the screw conveyors and left out media is manually swipe by the operator from floor level upto the screw conveyors. These mechanical screw conveyors transfer media upto the boot of the Bucket elevator, which will automatically transfer media to the Portable abrasive blaster.



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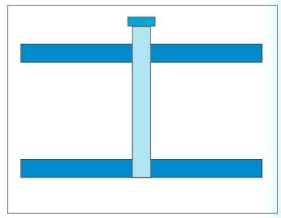
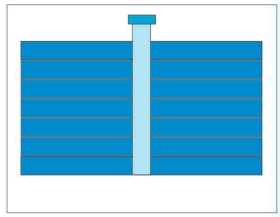
H-Shape Mechanical Screw Conveyor Type of Media Recovery System



In this type of abrasive recovery systems, Mechanical Screw Conveyors are provided along the length & Width of the Blast Room system in **H-Shape** formation, along with the bucket elevator unit. During blasting operation majority of media fall directly into the screw conveyors and left out media is manually swipe by the operator from floor level upto the screw conveyors. These mechanical screw conveyors transfer media upto the boot of the Bucket elevator, which will automatically transfer media to the Portable abrasive blaster.

Full Floor Mechanical Screw Conveyor Type of Media Recovery System (Fully Automatic Recovery System)



In this type of abrasive recovery systems, Mechanical Screw Conveyors are provided along the full length & Width of the Blast Room system **on complete floor of the Room,** along with the bucket elevator unit. During blasting operation media fall directly into the screw conveyors. These mechanical screw conveyors transfer media upto the boot of the Bucket elevator, which will automatically transfer media to the Portable abrasive blaster.

Scrapper Type of Media Recovery System

This type of media recovery systems eliminate the requirement of the pit which are usually mandatory to be provided in Mechanical Screw conveyor type of recovery system. In these system steel vanes are provided, which are suspended within a pneumatically powered frame which push the media forward. As the frame moves back, the vanes traverse up over the media, and then fall back into position for the forward push. These Pneumatically powered steel vanes transfer media upto the boot of the Bucket elevator, which will automatically transfer media to the Portable abrasive blaster.

Blast Room Consumables & Spare Part

Blast Nozzle

Nozzle Holder

Blast Hose

Safety Wear

Helmet

Rubber Sheet

Air Breather

Pinch Valve

Paint Spray Booths

The main purpose of a paint booth is to control the environmental conditions while spraying the paint. To serve this purpose we design an enclosed or semi-enclosed Paint booths used for the spray painting, equipped with air intake filters, Paint Trap Filters and an exhaust system to vent the fumes of the evaporating solvents.

Semi Down Draft Type Paint Spray Booth

In this type of systems paint trap filters are provided at both side walls of the Booth along the length. Thus when air flow from upward to downward direction suction draft produces by the exhaust blower forces the air toward the side walls and the impurities i.e. paint fumes in the contaminated air is trapped by the Filters.

- Main advantage of this system is that this system completely installs on the floor level and there is no need of any civil pit, thus it can be easily moved from one place to another.

Down Draft Type Paint Spray Booth

In this type of systems paint trap filters are provided at bottom of the floor level of the Booth along the length. Thus when air flow from upward to downward direction suction draft produces by the exhaust blower forces the air toward the bottom of the booth and the impurities i.e. paint fumes in the contaminated air is trapped by the Filters.

- Civil Constructed Pit is mandatory for the installation of this system.

End/Rear Draft Type Paint Spray Booth

In this type of systems paint trap filters are provided at rear wall of the Booth along the width. Thus when air flow from upward to downward direction suction draft produces by the exhaust blower forces the air toward the rear wall of the booth and the impurities i.e. paint fumes in the contaminated air is trapped by the Filters.

Wet / Water Curtain Type Paint Spray Booth

In this type of systems a water wash chamber is provided with water collecting pan, water circulating arrangements, Baffle plates, exhaust blower. In this booth air is passed through the continuous curtain of moving water by this suspended paint particles are scrubbed out. Through this action the air reaching the exhaust stack is virtually free of airborne particles keeping the stack area cleaner longer.

Paint Booth Consumables & Spare Part

Paint Spray Gun

Air Intake Filter

Paint Trap Filter

Range of Pollution Control Equipments / Dust Collectors

A **dust collector** is a system used to enhance the quality of air released from industrial and commercial processes by collecting dust and other impurities from air. Dust Collector is an essential part of the Shot Blasting System. Dust produced during shot blasting is withdrawn from the machinery cabinet and continuously re-circulating abrasive by a dust collector. Designed to handle high-volume dust loads, a dust collector system consists of a blower, dust filter, a filter-cleaning system, and a dust receptacle or dust removal system.

Types of Dust Collectors

Fabric Bag Type Dust Collector with Mechanical Shaking/Cleaning Arrangement

This type of dust collector consists of number of tubular fabric type filter bags to trap the impurities contained in the incoming air. For cleaning of these filter bags, after regular intervals, exhaust blower of the dust collector is stop and filter tubes are shaken mechanically to remove the dust accommodated on the outer surface of the filter tubes.

Efficiencies upto 10 micron
Generally used in Standard Shot Blasting Machines

Pulse Jet Type of Dust Collector with Automatic Cleaning Arrangement

This type of dust collector consists of number of tubular filter to trap the impurities contained in the incoming air. In this type of Dust Collector filters are sequentially reconditioned /cleaned with pulses of compressed air to remove the dust accommodated on the outer surface of the filter tubes..

- **Type of Filters used in Pulse Jet Type of Dust Collector**
  - Spun Bounded Pleated cartridge type of filters
  - Non-Wooven Polyestor type of filters.

High Efficiencies upto 5 micron
Low Air consumption
Larger Filter Area as compare to the Fabric Bag Type DC
Best suitable for the continuous production machines

Cyclone Type Dust Collector

In this type of dust collector suction draft produces by the exhaust blower assumes a vortex pattern as it travels helically downwards & Centrifugal force from the air's velocity causes the heavier dust particles to falls down into the bottom hopper of the dust collector. In these dust collectors additional dust filter bags are provided to trap the fines.

Efficiencies upto 20 micron
Generally used for low production/ intermediate productive machines.
Maintenance free as moving parts are less.
Easy to install

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