



**NATIONAL
ENTERPRISES**



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BLAST ROOM SYSTEM

Blast Room Systems are used for blast cleaning and/or surface preparation of fabrications and parts in a contained environment respectively.

A Blast Room System is an enclosure wherein the operator performs blast cleaning within the blast room, duly wearing recommended operators' safety wear/gear which is available as ready stock with us. Our blast room system facilitates blast cleaning of large and medium-size components in a close confined area to minimize the risk of spilt abrasive and dust flying in the surrounding environment. National Enterprises designs and manufactures Blast Room System/Enclosures according to the requirement, application, component type and usage.

We accept operational demands and provide guidance from expertise holders along with after-sales service. We also maintain a ready inventory of blast room safety wear, spares & accessories & abrasives/blast media.



CORPORATE OFFICE:

12/2 Main Road, Opp. Lumax Automotive Systems Ltd., Nr. Sec-37 Modh, Faridabad-121003, Haryana, India.

MANUFACTURING UNIT:

Plot No. 2, Cali No. 1, Khasra No. 7, Behind Rajesh Dharam Kanta, Village Bajri, Dabua Pali Road, Faridabad 121004, Haryana, India.

PUNE OFFICE:

Survey No. 24, Near Shree Tagore School, Shed No. 9, Indrayani Nagar, Bhosari Pune Maharashtra 411026.



WHAT DOES BLAST ROOM SYSTEM CONSIST OF?

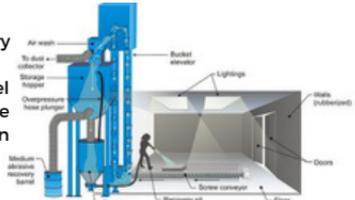


- Blast Room Enclosure
- Abrasive Blasting Machines
- Abrasive Recovery & Re-cycling System
- Dust Collecting System
- Job Handling System
- Wall Protection Rubber Lining
- Blast Room Flooring
- Illumination
- Electric Control Panel
- Operator's Safety Wear

[CLICK HERE](#)

Blast Room Enclosure:

- A Blast Room Enclosure can be of modular construction or masonry construction.
- The modular blast room is a fully sealed, dust-tight, all-steel structure, which is viable to be made in varying sizes. The components are prefabricated for simple bolt-together erection on site.



Abrasive Blasting Machines:

- Sand/ Shot Blasting within the blast room is performed by Blasting Machines available in varying sizes and capacity.



Portable Abrasive Blasters

Abrasive Recovery & Re-cycling System:

- Spilled abrasive, sand, and shots are manually swept in a corner and recycled pneumatically. Dust and fine particles are screened out, and the machine is refilled with reused media.
- Low-cost media recovery mechanisms are widely used in small-sized blast rooms.

Hopper-less (Pitless) Media Recovery/Hopperless Blast Room Systems:

- Full-floored automatic media recovery for small and medium-sized blast rooms eliminates manual sweeping work.
- Eliminate the need for underground hoppers or pits as needed in mechanical recovery systems. Spilt abrasive falls into multi-mini hoppers and is recovered by an air plenum duct. The system can be installed at ground level.



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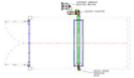
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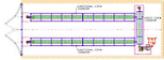


MECHANICAL MEDIA RECOVERY SYSTEM: SCREW CONVEYOR AND BUCKET ELEVATOR LAYOUT



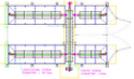
Single Conveyor:

- Spilled abrasive is swept into the Screw Conveyor. A conveyor carries media into a bucket elevator where it is elevated, screened, and fed back into the machine for recycling.



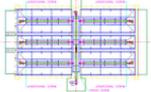
U- Pattern:

- Two longitudinal conveyors interconnect into a cross conveyor. The cross conveyor carries the media into the bucket elevator.



H- Pattern:

- Four longitudinal conveyors interconnect into a cross conveyor. The cross conveyor carries the media into the bucket elevator.



Fully mechanized automatic media recovery:

- Multiple longitudinal conveyors are laid along the floor and interconnect into a screw conveyor.

OUR INSTALLATIONS:



MANUFACTURERS, EXPORTERS AND DISTRIBUTORS OF:

BLAST ROOM ENCLOSURES, AIRLESS AND AIR OPERATED BLASTING MACHINES, INDUSTRIAL DUST COLLECTORS, PAINTING EQUIPMENT AND BOOTHS, COMPLETE RANGE OF BLAST MEDIA, ABRASIVE GRIT, SHOT, SPARES AND CONSUMABLES - AVAILABLE READY STOCK



DUST COLLECTION SYSTEM:

Industrial dust collectors are mandatorily required to meet the pollution control norms for keeping the environment eco-friendly. A dust collector separates any metallic dust particles from the blasting/painting/buffing & grinding facility and allows circulation of breathable air in the vicinity.



Cyclone Dust Collectors:

A cyclone dust collector is to separate any metallic or other dust particles from the spray-painting booth or blast rooms discharged into the clean atmosphere. In this type of dust collector, a suction is created by the exhaust fan causing the dust-laden to enter the cyclone dust collector. The dust particles are separated by a centrifugal force/action and settled in the dust tray at the bottom of the cyclone dust collector. The dust-free air escapes into the atmosphere through the exhaust fan thereby allowing the remainder to be taken out manually from time to time. Cyclone dust collectors which are also known as Dust Separators are used to separate abrasive from dust debris being abrasive having more density than the dust debris. The cyclone dust collector system uses centrifugal force to collect and direct dust debris towards the collection bin which is positioned at the bottom.

Fabric Bag Dust Collectors:

Our dust collectors have a modular design with no moving parts. Our fabric bag type dust collector is low in maintenance and the replacement of fabric bags is easy and quick. The fair air filter ratio assures a longer life cycle of the bags. Fabric bags are usually made of cotton or woven satin. However, there are other materials that can be supplied to suit the customers demand. Dust laden air is drawn into the dust collector through the inlet due to the suction created by the exhaust fan further on passing through the fabric bags. The heavier the dust particles are, the quicker they fall into the hopper due to the loss of momentum. Finer dust particles get deposited on the inner surface of the fabric bags and the clean air passes across the outer surface of the filter bags and exits into the atmosphere through the outlet source. The bags are cleaned through motorized shaking arrangement. When the motor is switched off, the shaking cycle gets activated automatically and the bags are shaken for a preset time through the timer. The dust slides from the filter bags downwards into the hopper for further collection into the dustbin. A dust collector has a modular design with no moving parts, is of low maintenance and the fabric bags are easy to replace.

Pleated Bag Dust Collectors:

Dust-laden air is drawn into the dust collector inlet due to the suction created by the exhaust fan and passes through the pleated bag elements. The abrasive-resistant inlet promotes dropping out light particulates and generates uniform airflow, which results in a longer life cycle of the filters. The dust gets deposited on the outer surface of a pleated bag, and clean air flows through the centre passage of the pleated bag. Clean air further exits into the atmosphere through the outlet duct. Pleated bags are periodically and automatically cleaned through air purging. A sequence circuit activates the solenoid valve for high-pressure air purging for preselected pleated bags. The dust released from the pleated bags slides downwards into the hopper for further collection into the dustbin. The dust collector assures a longer life of cartridges, has a modular design with no moving parts, and a typical application for ventilation and dust collection. For instance, dust collectors can be used in various industries and around distinctive systems, for instance, shot blasting rooms, plasma spray acoustic chambers, smoke and welding fume extraction forms, metal and powder spring enclosures etc.

Cartridge Bag Dust Collectors:

Our dust collector assures a high collection efficiency because of its downflow principle. It has a modular design with no moving parts, is of low maintenance and the replacement of the cartridges is easy and quick. Dust and debris are drawn into the dust collector through the inlet source due to the suction created by the exhaust fan which leads to it passing through the filter cartridge elements. The abrasive resistance and let promotes dropping cut high particulate and generates a uniform airflow which results in increased filled life. The dust gets deposited on the outer surface of cartridges and the clean air flows through the centre passage of the cartridge into the clean air plenum. The clean air further exits into the atmosphere through the duct outlet. Cartridges are periodically and automatically cleaned through air purging. A sequence circuit activates the solenoid valve for high-pressure air purging of preselected cartridges. The dust is released from the sides of the cartridges downwards into the hopper for further collection into the dustbin.

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