



ABRASIVE BLAST ROOMS

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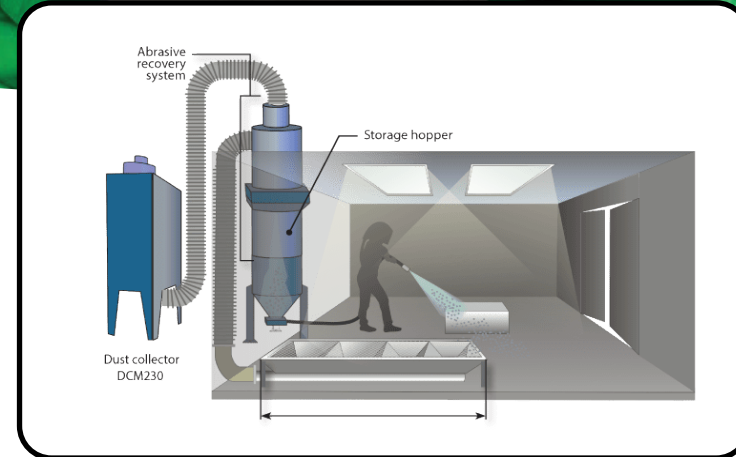
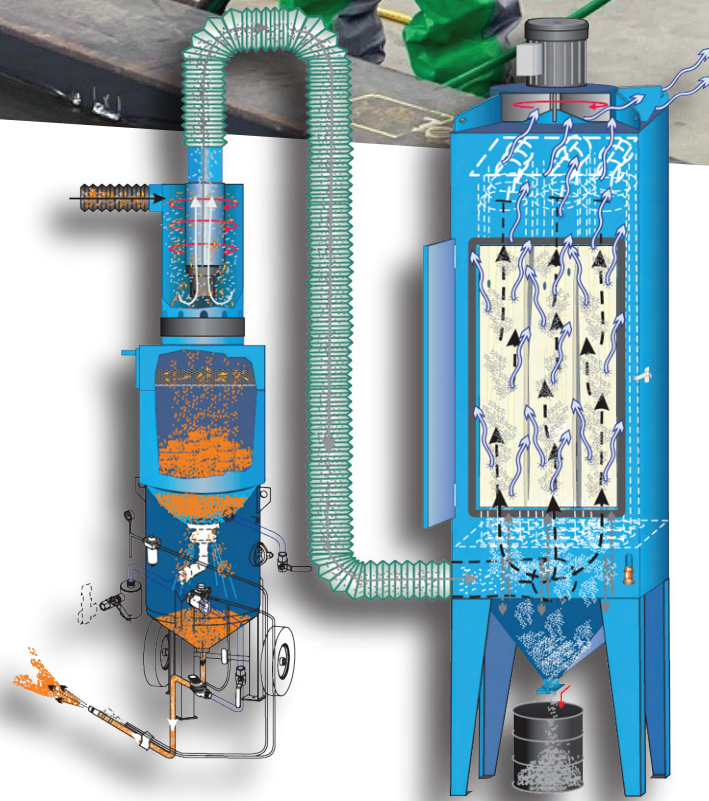
LS Industries Abrasive Blast Rooms are designed around your needs to prepare surfaces for painting, coating, and any treatments, any size, any specifications, just for you.





Air Circulation

The suction fan creates a negative pressure at one end of the blast room to cause the outside air to be sucked through the air inlets and develop a cross-flow airflow. The exhaust outlet is diverted to allow only the transport of dust-laden air. The inputs and outputs are proportionally sized to ensure adequate volume and airflows.



Features

- Storage hopper for abrasive media
- Protection equipment for one operator with grade "D" breathing air
- Abrasive blast room structure and dust collector
- Multiple abrasive recovery and cleaning system styles available
- Operator protection equipment
- Main electrical panel
- NEMA-12 electrical enclosure
- Structure security system
- Heavy-duty flow grating
- Air wash separator
- Pressure pots with regulator and "deadman" switch

Options

- Custom sizes
- Fire suppression
- Crane opening at top
- Pass through doors
- Man lifts and catwalks
- Heavy-duty steel panels
- Rail car system powered
- Tracks and turntables
- HEPA filter
- Ductwork
- HMI touchscreen
- Robotics
- Installation turnkey
- Containerized blast room

Additional information

- Panel construction, sheared and broke to form and bolted together, fabricated of 12-gauge galvanized steel.
- One set of double panel, or bi-fold, or roll-up doors, located on one or both ends of the room.
- Personal doors are supplied with view windows for easy accessibility for servicing of the room interior with OSHA safety interlock switches to prevent operation of blast pot and viewing window. Window number depending on size.
- LED light fixtures with one lexan covers on ceiling and side walls, as well as emergency exit lighting. Number of lights depend on size.
- Air circulation creates negative pressure at one end.

Floor Choices

- Corner shut / shoveling
- Complete single floor
- "U" shaped
- "H" shaped
- "I" shaped
- Full double floor

Partial Floor Recovery System

Full-Floor Recovery System

Pros

- **Hopper**
 - Cost Effectiveness - lower initial investment compared to full floor systems.
 - Simpler Installation - easier to install and requires less floor modifications.
 - Flexibility - can be customized to specific areas of the room where media accumulation is highest.
- **Sweeper Systems**
 - Moderate Automation - reduces the need for manual labor compared to hopper systems.
 - Cost-Effective - less expensive than full-floor systems, suitable for medium operations.
 - Versatile - can handle various types of media with proper configuration.

Cons

- **Hopper**
 - Manual Labor - often requires manual sweeping or shoveling to move media to hoppers.
 - Limited Coverage - only effective in areas where hoppers are installed, potentially leaving other areas requiring manual cleanup.
 - Intermittent Operations - may slow down the blasting process due to manual intervention.
- **Sweeper Systems**
 - Maintenance - requires regular maintenance to keep the sweepers operating efficiently.
 - Potential Downtime - sweeping mechanism might need to be stopped periodically for cleaning or adjustment.
 - Less-Efficient - not as fast or thorough as full-floor recovery systems.

Tips

- **High-Volume, Continuous Operations:**
 - Best Choice - Full-Floor mechanical recovery (screw or belt conveyors) due to their efficiency and durability.
- **Medium to Light Operations with Flexible Requirements:**
 - Best Choice: Pneumatic recovery systems for their adaptability and efficient media handling.
- **Smaller, Intermittent Operations for Limited Budget:**
 - Best Choice: Partial floor systems like hoppers or sweepers, or a vacuum recovery system.



Pros

- **Mechanical Recovery (Screw/Belt Conveyors)**
 - High Efficiency - automatically collects and transports media across the entire floor, minimizing downtime.
 - Durable - designed for heavy-duty operations, especially with abrasive media like steel grit.
 - Continuous Operations - ideal for high-volume, continuous blasting environments.
 - Reduced Labor - significantly reduces manual labor, freeing up workers for other tasks.
- **Pneumatic Recovery Systems**
 - Flexible Installation - can be installed with minimal disruption, as it doesn't require extensive floor modifications.
 - Fast Recovery - quickly vacuums up media, making it ideal for light to medium -density materials.
 - Adaptable - can handle a wide variety of media and is adaptable for different room layouts.
- **Vacuum Recovery Systems**
 - Mobility - high flexibility and can be used in different areas of the blast room or facility.
 - Limited Capacity - best suited for small to medium-sized operations; not ideal for high-volume environments.
 - Frequent Maintenance - filters and hoses need regular cleaning and replacement, especially in dusty environments.

Cons

- **Mechanical Recovery (Screw/Belt Conveyors)**
 - High Initial Cost - more expensive to install due to floor modifications and machinery.
 - Complex installation - requires significant planning and potentially disruptive installation.
 - Maintenance - regular maintenance is required to keep the conveyors running smoothly, particularly in abrasive environments.
- **Pneumatic Recovery Systems**
 - Noise - pneumatic systems can be noisy, which might be an issue in noise-sensitive environments.
 - Energy Consumption - typically requires more energy to operate than mechanical systems.
 - Wear and Tear - the systems can suffer from wear due to abrasive media being transported at high speeds, requiring more frequent maintenance.
- **Vacuum Recovery Systems**
 - Labor-intensive - typically requires more manual operation compared to automated systems.
 - Limited Capacity - best suited for small to medium-sized operations; not ideal for high-volume environments.
 - Frequent Maintenance - filters and hoses need regular cleaning and replacement, especially in dusty environments.

Media Options

Why LS Industries?



**Aluminum
Oxide**



**Ceramic
Beads**



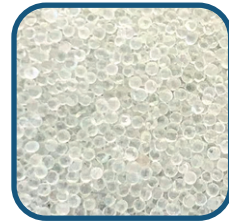
**Ceramic
Grit**



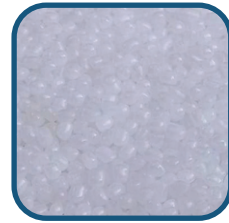
**Crushed
Glass**



Garnet



**Glass
Beads**



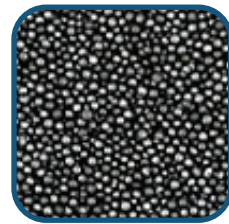
Plastic



**Silicon
Carbide**



**Stainless
Shot**



**Steel
Grit**



**Steel
Shot**



**Walnut
Shells**

For 47+ years, LS Industries has designed and manufactures a diverse product line of custom surface treatments and metal cleaning equipment. In addition to the ability to develop custom equipment solutions, LS Industries also provides highly responsive service for your equipment. LS Industries has a global presence as a leader in the design and manufacture of cleaning and surface preparation equipment for structural steel, pipes, and parts washing applications. While our product line has grown to include a wide diversity of cleaning solutions, our depth of experience with high-performance requirements of metal finishing has established LS as the trusted name in the industry. Family owned located in the middle of the map in Wichita, Kansas.

