

Airblast Blast Room Abrasive Recovery Options

To help you choose the right abrasive recovery system for your blast room, the table below outlines the four main options. It includes various information about the most common recovery floor systems and describes their features, their benefits, and the various applications to which they are particularly suited.

The bottom four rows of the table represent the average cost of ground works, installation, operation, and maintenance. Each is given a rating from 1 to 4, indicating least expensive to most expensive. For more information, please call us on +44 (0) 1778 560 650 or email us Airblast at sales@airblast.co.uk.

	Sweeper Floor	Screw Floor	Large Capacity Elevator	Vaculift
Summary	The most cost-efficient method of effortlessly recovering abrasive from the whole blast room floor.	A heavy-duty partial floor recovery system particular suited to dealing with very large quantities of abrasive arriving in a short period of time.	An alternative to a partial screw arrangement. This system consists of a floor hopper, bucket elevator, sieve, and grit wash that work at accelerated speeds.	A fast recovery system suited to blast rooms used for shorter periods of time.
Features	Flexible scraper blades transport the abrasive to a transversal corridor that delivers the abrasive to the elevator and grit wash. Electrically driven from outside the booth, this floor runs on runner wheels that feature sealed bearings with polyurethane tires. N.B. Not to be confused with systems utilising fixed steel scraper blades and pneumatic ram drives.	Heavy duty helical steel screws fitted into a deep trough move the abrasive to the bucket elevator. Adjustable feed plates allow for manageable media flow to the screw.	Utilizes a media hopper designed to contain enough abrasive to process the largest workpiece without the need to recover abrasive while product remains in the booth.	Abrasive is swept by the operative to the recovery point where it is blown up to the catch box for dust removal. A two-way air valve enables quick switching from blasting to recovery mode, aiding productivity.
Benefits	Automatic recovery of abrasive from beneath the operator's feet, ensures an uninterrupted supply of abrasive, eliminating the need to halt production to recover media. Little or no civils required. Standard widths produced to any length. Low maintenance requirements. Can be retrofitted. Low running costs.	Can be bulk loaded and deal with large amounts of abrasive at once. Can be retrofitted. Low running costs.	Combined with a large floor feed hopper this system offers the advantages of the partial screw arrangement without its vulnerabilities and costs. Requires less complex ground works than a screw system. Can be retrofitted. Low running costs.	Fast rate of abrasive recovery compared to other devices in its class. No civils work required.
Disadvantages	Requires product loading rails and is not suited to large objects with widely varying floor contact points that impose high point loads to the booth floor.	Following each blasting period, a phase of manual recovery is required. This system offers a similar utilization factor to a large capacity elevator system. Requires extensive ground works.	Following each blasting period, a phase of manual recovery is required. This system offers a similar utilization factor to a partial screw system.	Following each blasting period, an extensive phase of manual recovery is required.
Suited to	Where a booth is used for several hours per day. Product can be loaded directly onto floor gratings (heavy duty gratings are an option). Product is loaded into the booth on rails.	Where heavy product varies and must be placed directly onto the blast room floor.	Where heavy product varies and must be placed directly onto the blast room floor.	Where blasting isn't continuous. Where limited budget is a factor.
Ground works	£	££££	££	£
Installation	££	£££	£	£
Running	££	££	££	££
Maintenance	£	£££	£	££