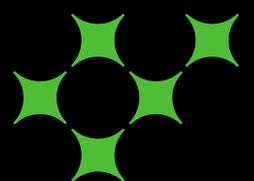


# SurfacePrep



## Blast Rooms



## The SurfacePrep Way

SurfacePrep has consistently been the leader in the manufacture and supply of abrasive blasting and surface treatment equipment.

Our product portfolio includes:

- Portable abrasive blast cleaning equipment
- Hand blast cabinets
- Soda blast equipment
- Blast rooms
- Abrasives
- Recyclable abrasives abrasive recovery
- Dust extraction and collection equipment



We also offer a comprehensive range of coating application equipment, enclosures, and spares for all our products.

Our skilled engineering team can turn your concept into a final design.

We have an extensive portfolio of equipment. Our asset is our ability to tailor a solution to the exact needs of your application.

This is all supported by our own in-house Technical Sales Advisors, latest 3D design software and modern manufacturing facilities.

Our team is here to guide you through every step of your journey.

## Abrasives

SurfacePrep has an abrasive manufacturing and warehouse facilities located in Dinnington, South Yorkshire.

Our abrasive stocks include the following materials:

- Chilled iron and steel grit
- Steel shot
- Stainless steel, shot & grit
- Brown, pink & white alumina
- Glass bead
- Plastic abrasives
- Silicon carbides
- Walnut shells
- Garnet
- Specialist blends

At SurfacePrep we are also able to reprocess and dispose of your spent abrasives. As a licensed waste broker/carrier we work with a range of recycling plants and customers in order to find a variety of additional uses for your spent products.



## Support

Technical support is at the centre of SurfacePrep support and after-sales care. In addition to our maintenance team, our internal engineers and sales staff can provide support and advice on a variety of topics including:

- Owner's manuals on current and historical machines.
- Advice on abrasive selection and use.
- Advice on equipment maintenance.
- Site sales-support visits.
- Website videos and tutorials.
- Machine certification and tests.
- Product demonstrations.
- Sample processing.

## Low Noise Blast Rooms

Where noise reduction is paramount SurfacePrep offers a purpose designed range of equipment to meet these demands.

Our acoustic booths are manufactured from composite panels filled with a range of material options with a robust steel inner and outer skin. All our acoustic enclosures provide excellent noise and thermal insulation properties.

The modular design of our panels means that the booths can be installed in almost any size and configuration. Our construction and jointing method significantly reduces build time. Whilst ensuring that the booth is built to the highest standards.

Our engineers fully assess site conditions to optimise the noise reduction properties of any acoustic blastroom proposed by SurfacePrep.



## Steel Panel Blast Rooms

Panelled booths are designed to be modular and offer the flexibility of being available in a range of sizes. The booths are designed for internal locations and are manufactured from heavy gauge steel plates with an external structural frame.

The smooth internal surfaces allow for easy cleaning and efficient grit recovery. The internal faces of the booth are lined with hard wearing shot blast quality rubber. The blast room doors are of double skin construction, mounted on to robust container hinges. These ensure the doors operate smoothly and effectively. This construction method is the traditional way in which blast rooms have been made for decades.

Recent advances in composite panels offer an alternative in selecting the most robust, efficient and cost effective design when choosing an enclosure.



## Weatherproofed Containerised Blast Rooms

When factory space is at a premium or a temporary site is to be utilised, a containerised blast room provides an instant and economical solution.

Containerised booths can be based upon standard freight containers. This reduces the design and fabrication costs that are normally associated with blast room manufacture.

We are also able to manufacture weatherproofed container designs in much larger sizes to suit bigger products. We can also manufacture a range of larger telescopic containerised booths, which are designed specifically for the freight and vehicle refinishing industry.

The flexibility of this design means that you can specify the type of recovery system, dust collection system and size of the unit to suit your needs.

Our containerised booths are fully weatherproofed and can be positioned inside or outside your factory.



## Dust Extraction

Choice of the correct model of dust collector is integral to any blasting system. The removal of airborne particles from the environment of a blast chamber is essential to maintain efficient operation. Savings made by cutting costs at this point will only lead to reduced efficiency and early failure of the system.

Factors to consider when choosing a dust collector are:

- Air Speeds - The correct air speed through the blast room prevents settlement of airborne particles in the work area.
- Air Flow - The direction in which the air flows through the blast room is critical to the process. Correctly sized and positioned air inlets and extraction duct ensure that first class ventilation is achieved.
- Filtration Area - This is the surface area of filter material within the dust collector. It is essential that the ratio between the filtration area and air volume is correct to prevent premature failure of the extraction system.

Our reverse pulse dust collector incorporates cartridges rather than filter bags. At pre-determined intervals a short pulse of air causes the dust accumulated on the cartridges to fall into the collection bins below. The filter cartridges are cleaned whilst the collector is in operation, ensuring that the efficiency of the collector is maintained.



## Media Cleaning & Recovery Units

Simple, low cost and efficient. An economic and compact unit.

The IND200P consists of a hopper sunk into the blastroom floor, an abrasive silo and a vacuum producing unit.

The system allows for up to three hours continuous production before recovery of media is required.

Expendable media is manually swept into the hopper and retrieved by vacuum into the silo and blast machine. During this process the recycled abrasive is cleaned, with fines, dust and oversized contaminants separated from the reusable media.

This low cost system is the ideal way to convert from an expendable blast media system to a fully recyclable one.

No additional power or services are required because the system runs in between breaks in production.



## Belt & Bucket Elevator System

SurfacePrep's Belt and Bucket Elevator System is a heavy duty grit recycling unit. This is coupled to an abrasive separator which is designed to continuously remove large amounts of contamination.

The heavy-duty nature of this system enables multiple operators to run from one unit. The system can be operated with a simple sweep-in floor hopper, or to increase production can be coupled to an under-floor scraper, or a screw media recovery system.

A selection of silo designs offer a choice of storage capacity and multiple outlets provide a choice of using additional operators where production rates are paramount. The modular nature of the design enables the system to fit in most site conditions and requires minimal foundation work. This system is ideally suited where heavy contamination is likely.

Our cleaning systems can be upgraded to include magnetic grates and dense particle separation to suit any application.

The flexible design of our separator means a wide range of media types and size can be cleaned effectively and efficiently, whilst improving the reliability of your process.



## Media Recovery

### Scraper Floor

The scraper floor is designed to automatically recover spent abrasive and contamination back to a bucket elevator or IND200P unit.

The scraper floor consists of a series of pivoting blades fitted into a movable frame. The scraper modules move back and forth, driven by a pneumatic cylinder to reduce running costs. The blades ride up and over the abrasive on the backwards stroke, pushing the abrasive along on the forward stroke. The media is then transported to the abrasive cleaning unit.

The advantage of the scraper floor system is its low profile design which, reduces, or if floor mounted, eliminates any foundation costs. The system is designed for low maintenance and does not require any tools to remove the blades from the modules for inspection or repair.



### Screw

Our range of screw recovery systems consist of heavy duty helical steel flights, welded onto an over-sized tube and fitted in a purpose-designed trough.

The benefit of our range of screw conveyors, is that they can be fitted into a full or partial recovery system and can be bulk loaded without overloading. The screws are direct-driven and mounted on self lubricating bearings, to ensure long life and minimal running costs. Screw conveyors can be fitted into existing blast rooms and in some cases we can utilise existing foundations.

High media transport rates, low running costs and ease of maintenance make our screw systems the preferred choice on high production applications.

### Gravity Feed

Our gravity feed recovery solutions can be used with both our vacuum and mechanical grit cleaning units.

All media types can be processed with our gravity hopper. Dampers can be used to regulate the flow of media into the system. No moving parts and profile design makes this system ideal when media changeover is needed.



### Munkebo

The Munkebo abrasive vacuum recovery system is electrically powered. It is designed to substantially reduce abrasive retrieval and site cleaning costs.

The unit is driven by a high powered induction electric motor coupled to a heavy duty vacuum pump. The cyclone filter section is fitted with a safety relief valve and automatically sequenced reverse pulse jet filter system. Only clean air is vented to the atmosphere and the separated dust is accumulated in the waste bin for easy removal.

Various sizes of Munkebo systems are available to suit site conditions, abrasive types and different recovery rates.

## Engineered Solutions

Our capability to provide bespoke solutions to customers needs means that every SurfacePrep blast system is uniquely suited to its application. We are able to assess site conditions, process flows and production requirements to ensure your new unit meets your needs exactly.

Our systems can be supplied stand-alone, integrated with a conveyer system or with an independent handling system such as a powered bogie.

Pit-less recovery units, HEPA filtered air, low noise fans and magnetic filtration are just a few of the options available.

## Product Training

In a world where technology and working methods are constantly evolving to meet new and demanding criteria, training can make the difference between success and failure.

The finishing industry is not exempt from these changes. It has to meet more complex and rigorous specifications, critical inspection and compliance with health & safety regulations.

SurfacePrep offers you the chance to meet these demands with confidence. Providing you with the knowledge to achieve the very best from your equipment and meet your financial constraints. Our standard courses include:

- Blast room and conformity
- Portable
- PPE/RPE

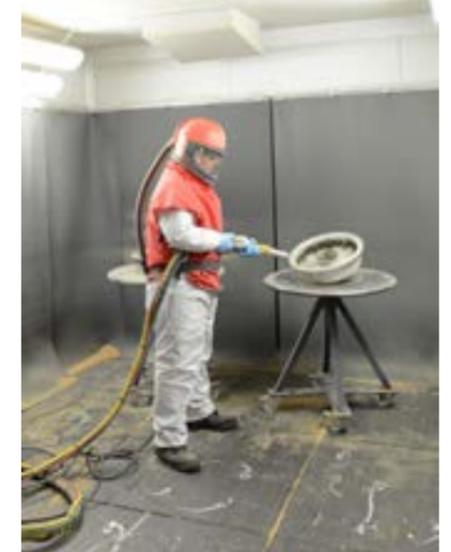
Courses can be conducted at the customer's premises or at SurfacePrep. They are suitable for novice and experienced people alike. All courses have a practical element which means the benefits are immediate. A flexible syllabus is also offered to meet the needs of the individual, their company and its equipment. The SurfacePrep training certificate is widely acknowledged as a certificate of competence throughout the U.K.

## Servicing

Abrasive blasting takes its toll on the equipment and systems involved in the process. It compromises reliability, efficiency, safety, quality and profitability. SurfacePrep offers a full range of maintenance and repair options to enable customers to optimise their blasting process.

With over 60 years of experience in the manufacture of abrasive blasting equipment behind us, we have the technical expertise to carry out maintenance and repairs to the highest standards. We can also advise on the appropriate maintenance and servicing programmes suitable for each customer.

SurfacePrep's service packages are designed to match factors affecting different customers needs and requirements. The packages are available to companies with equipment from other manufacturers besides SurfacePrep. Work is carried out nationwide by our team of experienced, well-equipped service engineers.



SurfacePrep's services can include:

- Equipment inspections and assessments
- Detailed reports
- Proposals for future maintenance
- Supply and/or fitting of replacement parts
- Equipment upgrades
- Operator training



Blasting  
Powder Coating  
Paint Spraying  
Abrasives  
Servicing  
Maintenance  
Training  
Recycling  
Hire  
Waste Disposal  
Mass Finishing

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