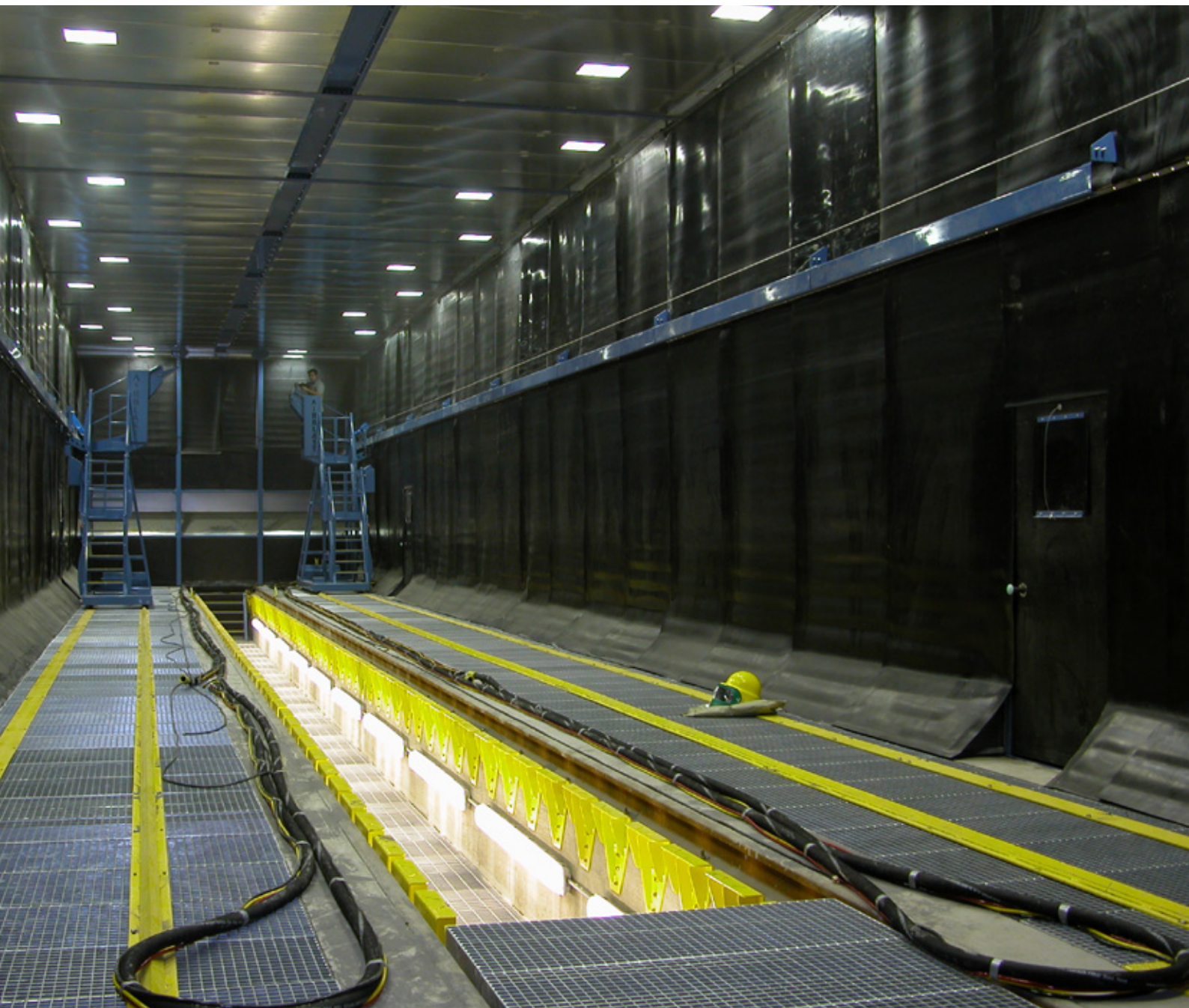


World-leading Surface Preparation and Finishing Solutions

Blast Rooms



AIRBLAST EUROSPRAY, AN INTRODUCTION

Airblast Eurospray is one of the leading global voices in surface preparation and finishing. We design, manufacture, install and sell blast and spray equipment and facilities to some of the world's most important organisations. With roots stretching back to 1971, we're known for driving the market with innovative, technically excellent blast and paint solutions for a wide range of industries.

WORLD-LEADING BLAST AND SPRAY EXCELLENCE

Our equipment is used in many demanding environments where product integrity is vital – so we only manufacture and sell facilities and equipment that we know are:

- Robust
- Well-designed
- Powerful
- Able to deliver optimum performance – safely and efficiently

PROFESSIONAL RESULTS

We're proud to offer complete solutions for any blast and spray application with a full range of products and services to help you complete your work to a high professional standard. If you have a bespoke query or cannot locate a specific product our brochures, please contact our sales team who will be happy to help you.

KNOWLEDGE TRANSFER

Performance is nothing without knowledge - especially with safety-critical processes like blasting. That's why we provide full operator training with industry experts as well as top-up training to keep experienced operators up-to-date with the latest blast and paint technology and developments. Contact our Training Specialists on 01778 560650 to find out more.

SERVICE AND AFTERCARE

We want you to get the best from your equipment for years to come, so we offer:

- Product and facility servicing
- Service contracts with reduced parts and labour rates
- Equipment collection
- Site visits, inspection and investigation services
- Next day delivery on many products

EQUIPMENT HIRE

Want to try before you buy? Many of our products are available for hire including blast machines, coating systems, water injection pumps, vacuum transfer units, suction and pressure cabinets, dust arrestors, hand-held closed circuit blast machines, closed circuit blasting and extractor fans. Contact our Hire Team for more information.

Finance packages available to help spread the cost of purchase. Get in touch today.

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BLAST ROOMS

INTRODUCTION

Airblast Eurospray has 30 years' experience of designing, manufacturing, and installing market-leading abrasive blast booths.

From modified shipping containers, to bespoke-built plastic media stripping facilities, Airblast Eurospray is a leading company in the field of surface preparation and coating. We offer acoustically attenuated enclosures, weather-proof enclosures, and more standard builds to house our ground-breaking abrasive recovery systems and ventilation equipment.

We offer a wide range of media recovery options. Our market leading ventilation, recovery systems, and robust design ensure that our products have become established as the machinery of choice for those concerned with professional surface finishing.



BOOTH CONSTRUCTION

ACOUSTICALLY ATTENUATED BLAST BOOTHS

A notable innovation brought to the market by Airblast Eurospray over recent years is our acoustically attenuated booth structure. Twin-skinned and insulated panels reduce breakout sound and allow for quick, efficient construction. The structural strength of the panels allows us to avoid the high costs associated with traditional steel panel booth construction.



STEEL CONSTRUCTION

Where span or other imposed loads on the booth are present, Airblast Eurospray also has a traditional structural steel option. This has a 2mm nut-and-bolt assembled galvanised infill panel construction.



WEATHER-PROOF BOOTH

Where a booth is to be sited externally, Airblast Eurospray offer two solutions. For booths with dimensions within road haulage dimension allowances, Airblast Eurospray has a range of bespoke-built containerised solutions (please see below).

However, larger booths are offered as a system that utilises standard-rolled galvanised structural elements, externally clad with traditional industrial building sheeting and internally clad with our 2mm nut-and-bolt assembled traditional blast booth panelling or our acoustically attenuated panel.



CONTAINERISED BLAST BOOTH

STANDARD CONTAINER

Airblast Eurospray offers a range of modified shipping containers that represent great value to end users who are able to operate within the constraints of a standard ISO unit. Containerised booths can be built to accommodate external, dust extraction, and media reclamation plant, or in the case of a weather-proof requirement, internal plant.



BESPOKE CONTAINER

Following similar lines of construction to a standard ISO unit, Airblast Eurospray offers a range of non-standard containers that have all the features of the standard container mentioned above. These units are specifically built to a customer's size requirements, with the only limitation being the dimensions stipulated by road haulage regulations.



BLAST SHUTTER

Another example of Airblast Eurospray's innovative approach to machinery design is our electrically powered roller door, the Blast Shutter. Typically, roller shutter doors are not suitable for blast rooms because the door structure is exposed to the abrasive environment inside the booth.

Airblast Eurospray decided to take on the challenge of incorporating the space-saving benefits of a shutter door into a blasting environment. To achieve this, we developed an electrically powered roller door with an inner PVC skin that separates the door mechanism from the roller door itself. This innovation allows us to offer a robust, electrically operated door that is suitable for use in a blast environment while boasting all the advantages of a roller shutter.



TURNKEY LARGE-SCALE CONSTRUCTIONS

Airblast Eurospray has developed a reputation for its ability to provide turnkey, large-scale surface preparation and finishing facilities. Our work in this field has informed a distinctive approach that gives us a competitive advantage. Experience has taught us to question the assumption that a large host building always necessitates using a main contractor to deliver a piece of process equipment.

Instead, Airblast Eurospray opts to keep the project process led. We do this by considering the primary function of the host building to be weather-proofing. This approach has enabled Airblast Eurospray to deliver numerous large contracts successfully, in partnership with an established and experienced supply chain of structural frame designers, cladding contractors, civil engineers, and M&E contractors. This supply chain allows us to offer ground-breaking design and economy.



MEDIA RECOVERY

VACULIFT

Airblast Eurospray blast rooms can be fitted with a selection of media recovery solutions, the first of which is called the Vaculift. The Vaculift has a high recovery rate that is ideal for in-house blasting operations at a scale that doesn't justify a floor recovery system.

An air wash system separates dust and debris from the recovered abrasive. This allows valuable resources – resources that would otherwise be thrown away – to be cleaned and returned to the blast machine or an optional storage hopper located above the machine.

Lighter dust is transported to a dust collector and the heavier contaminants are caught in a screen. A two-way air valve enables the operator to switch from blasting mode to recovery mode in seconds, ensuring high productivity.

AIRFLEX RECOVERY FLOOR

The Airflex Recovery Floor system is suited to a production shot blasting environment. It consists of modular corridors of six standard widths that can be produced to any length, for recovery from virtually any floor area.

The Airflex Recovery Floor has a series of flexible scraper blades at intervals in each corridor. The blades rest against galvanised steel combs, which give them enough strength to push the abrasive. On the alternate stroke the comb passes through the abrasive and the scraper blade passes over it. This back-and-forth motion transports the abrasive to a transversal corridor running at right angles to the rest of the floor. This transfers the abrasive to the elevator and grit wash.

The grit wash includes a primary vibrator sieve and air wash. From here, dust is transported to a dust collector, while spent abrasive and large contaminants are sent to a collection bin. Diverting spent abrasive away from the dust collector in this way prevents premature wear of the collector elements, increasing value in the long term.

The operator can control the minimum size of particle that remains in the system by adjusting the power of the vacuum placed on the abrasive; the higher the power the larger the removed particle.

Clean abrasive is deposited in a silo equal in capacity to the volume of the blast machine. Once all the abrasive in the blast machine has been delivered, or when the operator releases the activation handle, the blast machine is automatically charged with fresh abrasive from the silo above.

MEDIA RECOVERY

RAPID RECOVERY ELEVATOR

Where demand exceeds the capabilities of the Vaculift system, but doesn't justify an Airflex Recovery Floor system, Airblast Eurospray offers a Rapid Recovery Elevator. These elevators can incorporate larger media storage capabilities - up to 40 tonnes - and rotary scalping drums.

Our philosophy when deploying such an elevator is to ensure that the media storage capability exceeds the volume of abrasive required to process a full blast booth. This allows us to ensure that auger screws are deployed only when necessary.

Typically, operation of one of these booths involves four steps. First, the booth is loaded, next the product is processed, then the booth is emptied, and finally the media is recovered. The media is pushed into a floor hopper, usually by mechanical means such as a scraper attachment to a forklift. The Rapid Recovery Elevator processes media quicker than the blast machine uses it - up to 20,000 kilograms per hour - meaning that blasting operations can recommence within minutes.



DUST EXTRACTION

Efficient extraction is one of the major differentiators when it comes to blast booth technology. Airblast Eurospray has spent many years developing systems that provide optimal blast room dust extraction and ventilation. We believe it is of the utmost importance to remove dust quickly and efficiently, ensuring clear visibility and preventing unnecessary wear on parts.

Our system begins to capture dust as soon as it is generated, which prevents the dust build-up that affects many other booths on the market today. Our dust extraction rate is 0.254m/s (50fpm). This allows us indefinitely to suspend a particle of metallic dust, preventing it from falling out of the airstream until we have captured it in the dust extractor.

Airblast Eurospray's dust extraction system ensures that air enters the booth at high level and exits at low level, meaning that it works with gravity. Many manufacturers are not able to do this because it requires sophisticated air inlet and outlet fabrications to prevent the escape of abrasive particles. Instead, they choose to extract dust at a high level. This is a less expensive but fundamentally flawed option because the dust extraction system is working against gravity, which generally results in a dusty blast room with poor visibility and low efficiency.

By contrast, Airblast Eurospray's dust extraction technology makes it possible to blast in as dust-free an environment as possible, which improves safety and minimises the number of man hours required to complete a job. Our successful track record has taught us that a clean, efficient, and safe system pays dividends in the long run.

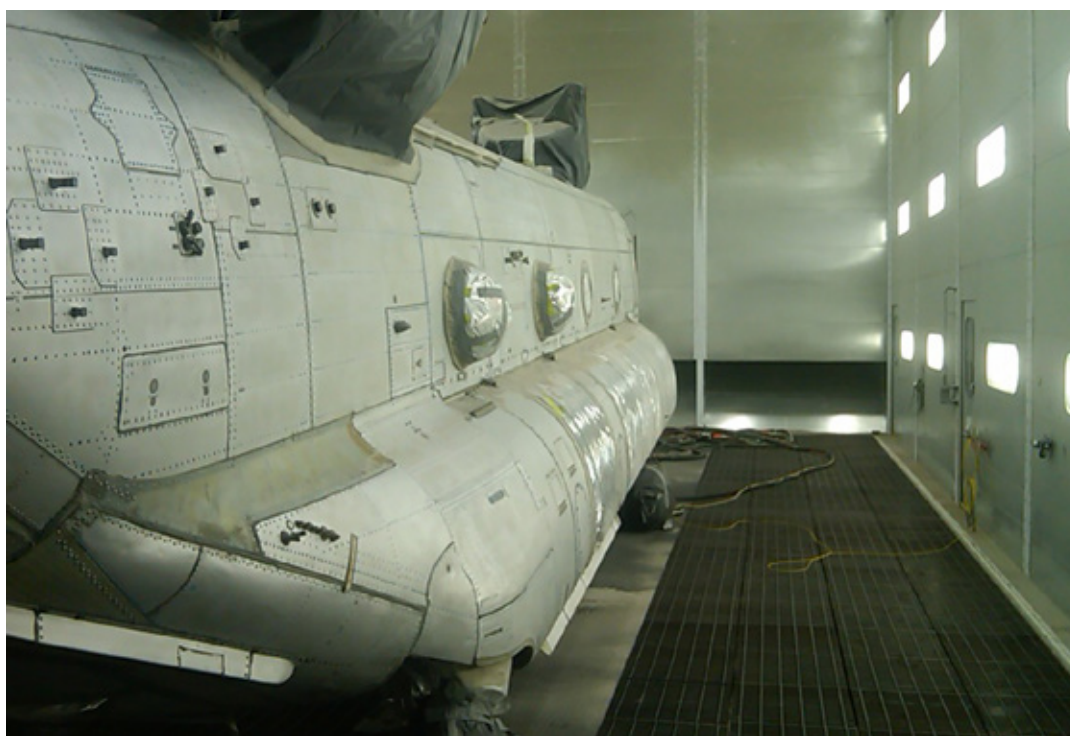
SPECIALISED BOOTHS

PLASTIC MEDIA STRIPPING

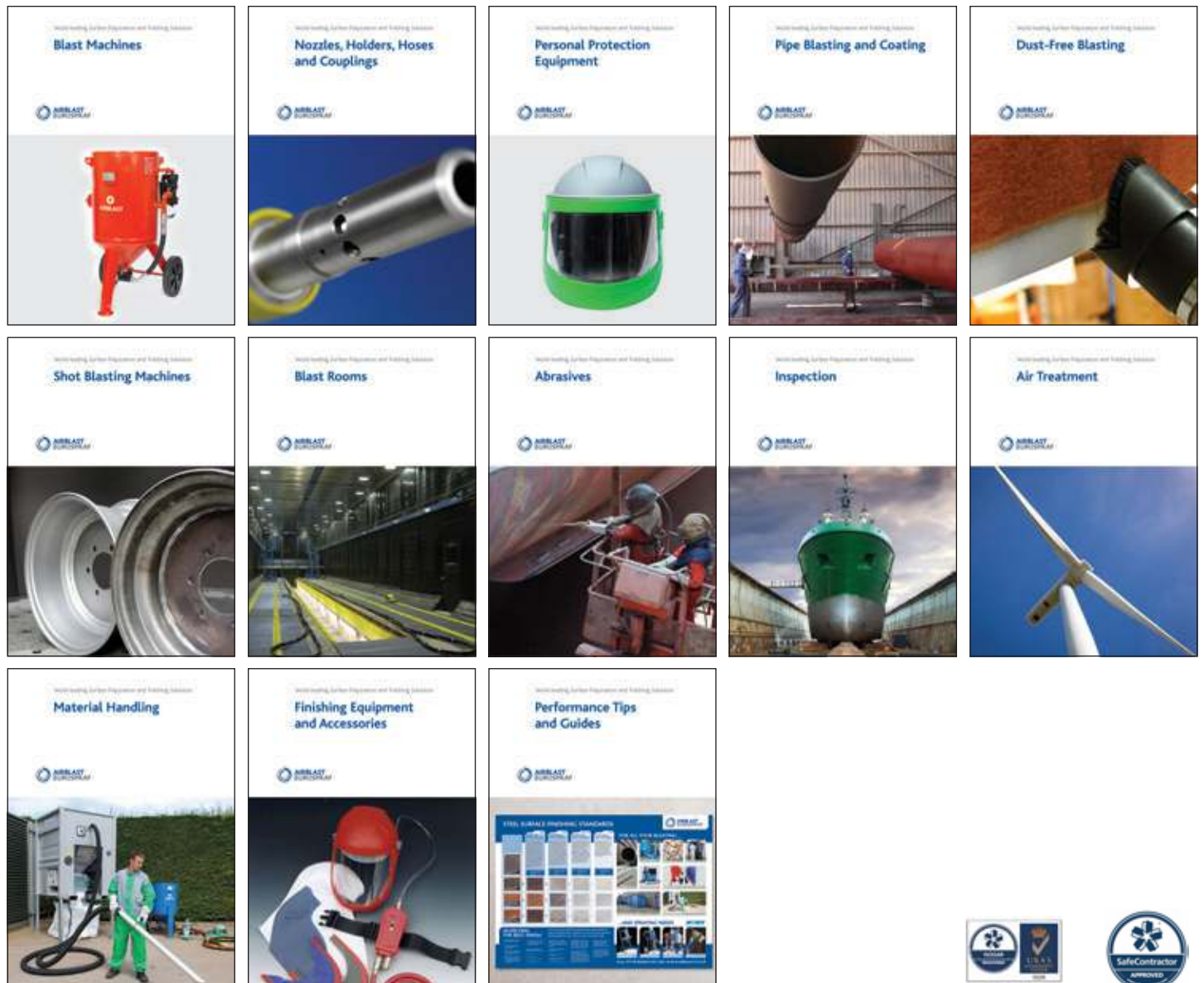
The Airblast Eurospray Plastic Media Blast Room is manufactured from twin-skinned and insulated panels. These have internal and external faces manufactured from smooth polyester. The panels stand vertically to the full height of the booth and are joined via pre-formed tongue and groove edges. The reflective white walls enhance lighting levels while the insulated construction provides sound attenuation. Additionally, the lightweight materials allow for quick assembly.

Airblast Eurospray can install a Megadoor on larger plastic media blast booths. All Megadoors are specifically engineered for the application at hand and are installed by local firms who specialise in servicing the aerospace industry. Each door is constructed to ISO9000 certified quality assurance criteria to provide reliable service at a very low lifecycle maintenance cost.

Our plastic media booths typically recover media pneumatically from either a floor hopper or, where higher production is demanded, a floor hopper fed by our Airflex Recovery Floor system. Depending on the application, Airblast Eurospray also offers dense particle separation, vibratory sieve classification, magnetic separation, and de-ionisation technology for static reduction.



WORLD LEADING SURFACE PREPARATION & FINISHING SOLUTIONS



Airblast Eurospray account

To open an account, simply get in touch with us today.

All products sold are subject to our standard Terms and Conditions, which are available on request. E&OE. Price does not include delivery.

Products and services

- Blast rooms
- Abrasive blast cabinets
- Portable blast systems
- Blast accessories
- Lighting systems
- Compressors
- Dust recovery equipment
- Paint spray booths
- Coating systems
- Coating accessories
- Personal Protective Equipment
- Media
- Testing equipment
- Design and build
- Servicing
- Reconditioning
- Pressure testing
- Training
- Sample processing
- Equipment hire

Contact us

For further information on how our products and services could benefit your company, please contact us by any of the means below.

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