

# Hodge Clemco Ltd

incorporating *Mac'Ants*

Supplier & manufacturer of abrasive blasting equipment, abrasives, servicing & training

## Blast Rooms





## The Hodge Clemco Way

Leading the way in surface preparation since 1959, Hodge Clemco has consistently been the leader in the manufacture and supply of abrasive blasting equipment and surface treatment equipment.

Our product portfolio ranges from portable abrasive blast cleaning equipment, hand blast cabinets, soda blast equipment, blast rooms, a full range of Jblast and recyclable abrasives, abrasive recovery, and dust extraction & collection equipment. We also offer a comprehensive range of coating application equipment and enclosures, and spares for all our products.

Our skilled engineered products team can turn your concept into a final design. We have an extensive portfolio of equipment but our advantage is our ability to tailor a solution to the exact needs of your application. This is all backed up 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 application.



## Low Noise Blastrooms

Where noise reduction is paramount Hodge Clemco 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 panel 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 blast-room proposed by Hodge Clemco.



## Steel Panel Blastrooms

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 location 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 and the blast room doors are of double skin construction mounted on to robust container hinges which 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 Blastrooms

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

Containerised booths can be based upon standard freight containers which 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, and 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 indoors or outside your factory.

# Media Cleaning & Recovery Units

## IND200P

**Simple, low cost and efficient...**

An economic and compact unit, the IND200P consists of a hopper sunk into the blast-room 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 and fines, dust and oversize contamination are separated from the reusable media.

This low cost system is the ideal way to convert from an expendable blast media system to a full recyclable system. No additional power or services are required because the system runs in between breaks in production.



## BELT & BUCKET ELEVATOR SYSTEM

Hodge Clemco's Belt and Bucket Elevator System is a heavy duty grit recycling unit 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 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.



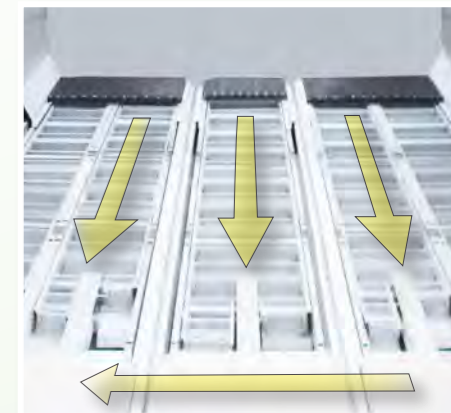
# Media Recovery

## 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 consists 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 utilize 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, and 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 and designed to substantially reduce abrasive retrieval and site cleaning costs.

The units are 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 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.





## 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 blastroom prevents settlement of airborne particles in the work area.
- Air Flow - The direction in which the air flows through the blastroom is critical to the process. Correctly sized and positioned air inlets and extraction duct work 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 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.

## Engineered Solutions

Our capability to provide bespoke solutions to customers needs means that every Hodge Clemco 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.

# The Finishing Touches

## 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 having to meet more complex and rigorously laid down specifications, critical inspection and compliance with Health & Safety regulations.

Hodge Clemco offers you the chance to meet these demands with confidence, providing you with the knowledge to achieve the very best from your equipment and financial constraints. Standard courses offered include:

- Abrasive Blasting – Site operations, Blast-room installations, and Cabinet operations
- Airless Spray Painting
- Combined Abrasive Blasting & Airless Spray Painting
- Plastic Media Dry Stripping
- Equipment-specific specialist modules – e.g. blasting helmets

Courses can be conducted at the customer's premises or at Hodge Clemco and are suitable for novice and experienced people alike.

- All courses have a practical base which means benefits are immediate
- A flexible syllabus is also offered to meet the needs of the individual, their company and its equipment
- The Hodge Clemco training certificate is widely acknowledged as a certificate of competence throughout the U.K.

## ABRASIVES

Hodge Clemco has abrasive manufacturing and warehouse facilities located in Dinnington, South Yorkshire and Hull, Humberside. 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



## SERVICING

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

With over 50 years of experience in the manufacture of abrasive blasting equipment behind us, we not only have the technical expertise to carry out maintenance and repairs to the highest standards, but we will advise on the appropriate maintenance and servicing programmes suitable for each customer.

Hodge Clemco's service packages are designed to match factors affecting different customers such as the throughput involved and quality required. These packages are available to companies with equipment from other manufacturers besides Hodge Clemco. Work is carried out nationwide by our team of experienced, well-equipped service engineers.

Hodge Clemco'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



## SUPPORT

Technical support is a keystone in Hodge Clemco 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.



**Manufacturers of:**

**Blast Rooms**  
**Blast Cabinets**  
**Blast Machines**  
**Spares**  
**PPE**  
**Bespoke Equipment**  
**Recyclable Abrasives**  
**Expendable Abrasives**  
**Paint Spray Equipment**  
**Servicing**  
**Training**

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