

Hodge Clemco Ltd

incorporating *Mac'Ants*

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

Blast Cabinets



Powerful Cleaning Solutions

Hodge Clemco has been at the forefront in the surface preparation industry since 1958. We have led and innovated the development of many new products.

Selecting the correct type of blast cabinet is a critical decision. Our blast cleaning cabinets are used on a variety of applications that include:

- General blast cleaning of steel fabrications.
- General blast cleaning of non-ferrous components.
- Removal of surface rust and coatings.
- Providing a key prior to applying a coating.
- Removal of powder coating from alloy wheels.
- Plastic media stripping of aircraft components.
- Glass bead blasting.
- Aesthetic surface texturing.
- Memorial and stone cleaning applications.
- Peening and stress relieving.

The potential applications for the Hodge Clemco blast cleaning cabinets are endless.



Sample Processing

Hodge Clemco offers a full validation service so our customers can rest assured that they have chosen the correct machine, abrasive and process method before purchasing their equipment.

Our modern demonstration and sample processing facility can replicate many processes. Our facility includes a noise-attenuated blast room, pressure blast cabinet, suction cabinet and a range of blast machines, and can simulate many processes.

As part of our service, Hodge Clemco ensures that the correct type of abrasive is used in your machinery. We hold the largest stock of recyclable and expendable abrasives in the UK and all our machinery is designed to utilise a wide range of abrasives.

Industry Types

Our equipment is used throughout the world in many different industries. We are proud to serve some of the following industry types:

- General structural steel
- Aerospace & aviation
- Military
- Automotive
- Electronics
- Surface finishing contractors
- Oil & gas
- Rail
- Construction
- Building maintenance & stone cleaning

Abrasives & Media

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 and Support

Abrasive blasting takes a heavy 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 every 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

Innovation and Design Ethos

By choosing a Hodge Clemco blast cleaning machine, you are selecting a machine designed to be robust, powerful, energy efficient with low running costs. The materials used in the construction of the machine ensure a long operating life and ease of maintenance.

Energy efficiency is achieved by using LED lighting and high grade electrical motors throughout our ranges. Our venturi nozzle profiles can also reduce your air consumption by increasing the velocity of media leaving the hose, allowing you to reduce the air pressure.



Pressure Cabinets

Pressure feed hand blast cabinets are essential when removing heavy corrosion, tough coatings or when high production rates are required. Cleaning rates are up to 5 times the speed of a suction cabinet and are suitable for use with heavier, long life abrasives such as iron and steel. Pressure feed machines are commonly used in high production environments or on applications such as alloy wheel refurbishment and cleaning heavy castings.



From Right: Pressure Cabinet; Dust Collector; Regrader & Blast Machine

Pressure Cabinet Features

Hodge Clemco manufactures a full range of standard and bespoke pressure blast cabinets. The main features are:

- Large capacity pressure blast vessel.
- Vacuum recovery unit to minimise blockages in the machine.
- Abrasive regrader unit to allow for accurate media cleaning on a range of abrasive types.
- Pressure regulator for fine control of air pressure.
- Abrasive grit valve for accurate adjustment of media feed rate.
- Electric foot pedal control for instant operation.
- Safety door interlock system which interrupts blasting operation in the event of any of the doors being opened.
- High capacity reverse pulse extraction unit to aid visibility and cleanliness inside the blast cabinet.
- Heavy duty internal rubber curtains.
- Fully-sealed ergonomically designed glove ports.

		Standard Pressure Cabinet Models	
		15 litre Blast M/C	50 litres Blast M/C
Cabinet work-chamber dimensions (mm)	W 800		
	D 650	IND800COMPXL	IND800COMPXM
	H 800		
	W 1000		
	D 800	IND1000COMPXL	IND1000COMPXM
	H 950		
	W 1250		
	D 1000	IND1250COMPXL	IND1250COMPXM
	H 1000		
	W 1500		
	D 1450	IND1500COMPXL	IND1500COMPXM
	H 1000		



Suction Cabinets

Suction Blast Cabinets provide the ideal cleaning and finishing solution to many coating and corrosion problems. They are ideally suited to ensuring a decorative or aesthetically pleasing surface finish across many materials. Suction systems are generally lower in capital cost than a pressure cabinet and use less compressed air, making them an attractive proposition for smaller workshops or lower production environments.



BNP Gun (cross section)

Suction Cabinet Features

Hodge Clemco manufactures a wide range of suction blast cabinets. The main features are:

- Wide-opening doors on both sides, optionally with vestibule for wider components.
- Available with a media recycling facility.
- Pressure regulator for fine control of air pressure.
- Electric foot pedal control for instant operation.
- Safety door interlock system which interrupts blasting operation in the event of any of the doors being opened.
- High efficiency reverse pulse extraction unit to aid visibility and cleanliness inside the blast cabinet.
- We also offer an optional high capacity reverse pulse dust collector for high dust applications.

		Standard Suction Cabinet Models	
		With Media Classifier	Without Media Classifier
Cabinet work-chamber dimensions (mm)	W 800		
	D 650	IND800COMPXD	IND800COMPXE
	H 800		
	W 1000		
	D 800	IND1000COMPXD	IND1000COMPXE
	H 950		
	W 1250		
	D 1000	IND1250COMPXD	IND1250COMPXE
	H 1000		
	W 1500		
	D 1450	IND1500COMPXD	IND1500COMPXE
	H 1000		

Smart Cab

Our entry level Smart Cab is a compact and economical unit, ideal for short intermittent periods of blast cleaning. The scope of applications include cleaning, etching, removal of coatings and polishing of small components. This unique and low cost suction cabinet is suitable for the full range of abrasives including glass bead, glass grit, plastic media and aluminium oxide. The package includes a fully assembled cabinet with a cartridge type dust collector with reverse jet cleaning.



SUCTION TYPE CABINET (100663)

- Sheet metal enclosure.
- High performance approved BNP gun.
- BNP metering valve.
- Adjustable working pressure from 3 to 7 bar.
- Door safety interlocks ensuring blasting cannot take place with the doors open.
- 6mm ceramic nozzle as standard.
- Safety window with anti-etch screen for protection against wear and tear.
- Hand-holes - small work-pieces can be introduced without opening the door.

Dimensions	W x D x H (mm)
Exterior	1000 x 775 x 1710
Work Chamber	890 x 750 x 760
Door-Opening	775 x 330

Air Consumption			
Blast Pressure	45 psi	80 psi	100 psi
Air Consumption	14 cfm	21 cfm	26 cfm

Tumble Blast Cabinet

The addition of a tumble basket machine to any production scenario where batches of small products such as nuts, bolts or washers to be processed automatically can greatly increase the efficiency of the process.

The parts are loaded into the basket and the products rotate inside. The gentle tumbling action of the basket ensures all the complex faces of the products are exposed to the blast gun giving a uniform blast finish.

Tumble baskets are available as a retrofit or purpose built to suit the application. Fully automated and semi-automated tumble blast cabinets are available which can quickly be converted back to a manual system offering a flexible solution.



Indexing Table machine (A200)

The A200 is designed for high production output and can have 6, 8 or 12 satellite tables which can be fitted with fixtures to hold products from 150mm diameter x 300mm high.

The operator loads and offloads the products at the front of the turntable. Multiple blast guns are located on adjustable arms so they can be positioned to suit a wide range of product types. Reciprocators can also be fitted to manipulate the guns in front of the rotating satellite tables.

This gives better cleaning results on awkward or difficult to clean products. The heavy duty nature of this machine allows it to be operated with a wide range of abrasives and production can be further increased by utilising a pick-and-place robot for loading/offloading operations.



Engineered Solutions

Hodge Clemco manufactures a range of bespoke machines, designed for a wide variety of applications. Our extensive range of equipment includes semi and fully automated units with rotating baskets, rotary turn-tables, indexing tables, belt conveyors and roller conveyors. We also offer the facility to provide a bespoke solution for specialist applications. Some examples of typical automated machines are shown below.



Cabinet Options

- A vestibule in one door or both doors to permit the blasting of parts which are longer than the cabinet. Rubber flaps minimise abrasive escape.
- A track can be fitted to the exterior of the cabinet to ease the introduction of heavy parts.
- Turntables can rotate on one axis or two, and can incorporate rollers to ease the introduction of heavy parts. Free-standing and fixed tables are available.



Side door vestibule

External track and turntable

Nozzle manipulator

Nozzle bracket

Manufacturers of:

Blast Rooms

Blast Cabinets

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