

# Hodge Clemco Ltd

incorporating *Mac'Ants*

Supplier & Manufacturer of Blast Machines, Abrasives, Blast Rooms, Cabinets & Paint Spray Equipment

## Product Catalogue





**F**ounded in 1959, Hodge Clemco has set the benchmark for the UK blast cleaning equipment industry.

With three manufacturing sites, Hodge Clemco has consistently been the leader in the supply and manufacture of abrasive blast cleaning and surface treatment equipment.

Our product portfolio ranges from portable abrasive blast cleaning equipment, wet blast units, hand blast cabinets, soda blast equipment, sponge blast, blast rooms, a full range of abrasives, paint spray equipment and safety equipment.

We manufacture a range of expendable slag, plastic, mineral, sponge, glass and metallic abrasives to compliment our equipment range.



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# Standard Blast Machines



Hodge Clemco blast machines are the most technically advanced blast machines available, offering unrivalled performance, low running costs and extended life cycles. Our Contractor range has become the industry standard in performance, mobility, safety and quality of construction. In particular these high performance machines include many unique features:

- Roll bar handles protecting operator and valve work
- Low centre of gravity for easy movement
- Large bore pipework for efficient airflow
- Large access plate for easy maintenance
- Unique pop up valve allows operation at very low pressures when used in conjunction with a factory fitted pressure regulator.

Expendable Abrasive Capacity of Machines			
Model	Overall Dimensions H x W x D (mm)	Abrasive Capacity	
		Kgs	m <sup>3</sup>
1028NC	780 x 400 x 800	25	0.015
1440NC	1070 x 670 x 800	75	0.041
2040NC	1100 x 810 x 960	150	0.089
2452NC	1320 x 850 x 960	300	0.163

1 cu.ft. = 0.028 m <sup>3</sup>	1 cu.ft. = 28.32 ltrs
1 ltr = 0.035 cu.ft.	1 m <sup>3</sup> = 35.31 cu.ft.

Bulk Density of Abrasive (approx)			
Media	Kg/ltr	lbs/cu.ft	Tonnes/m <sup>3</sup>
Metallic	3.78	240	3.78
JBlast	1.80	114	1.80
Stone Grit	1.45	91	1.45
SC	1.35	86	1.35
Alublast	2.00	106	2.00
Glass Bead	1.44	90	1.44

Our Contractor range is available in four capacity sizes with a choice of metering valve. Standard and high pressure versions are available.



The **1028NC blast machine** is the smallest model in our range. It has an expendable abrasive capacity of 25kg with overall dimensions of 780mm high x 400mm x 800mm; approximate weight 40kg. This machine is suited for small projects and jobs where portability is the key factor.



The **1440NC blast machine** is one of our most popular models. It has an expendable abrasive capacity of 75kg with overall dimensions of 1070mm high x 670mm x 800mm; approximate weight 100kg. This machine offers three times the capacity of the 1028NC machine, allowing it to be used on medium sized projects. The design of this unit allows the machine to be moved through standard doorways and is a very popular choice on stone renovation projects and boat yards.



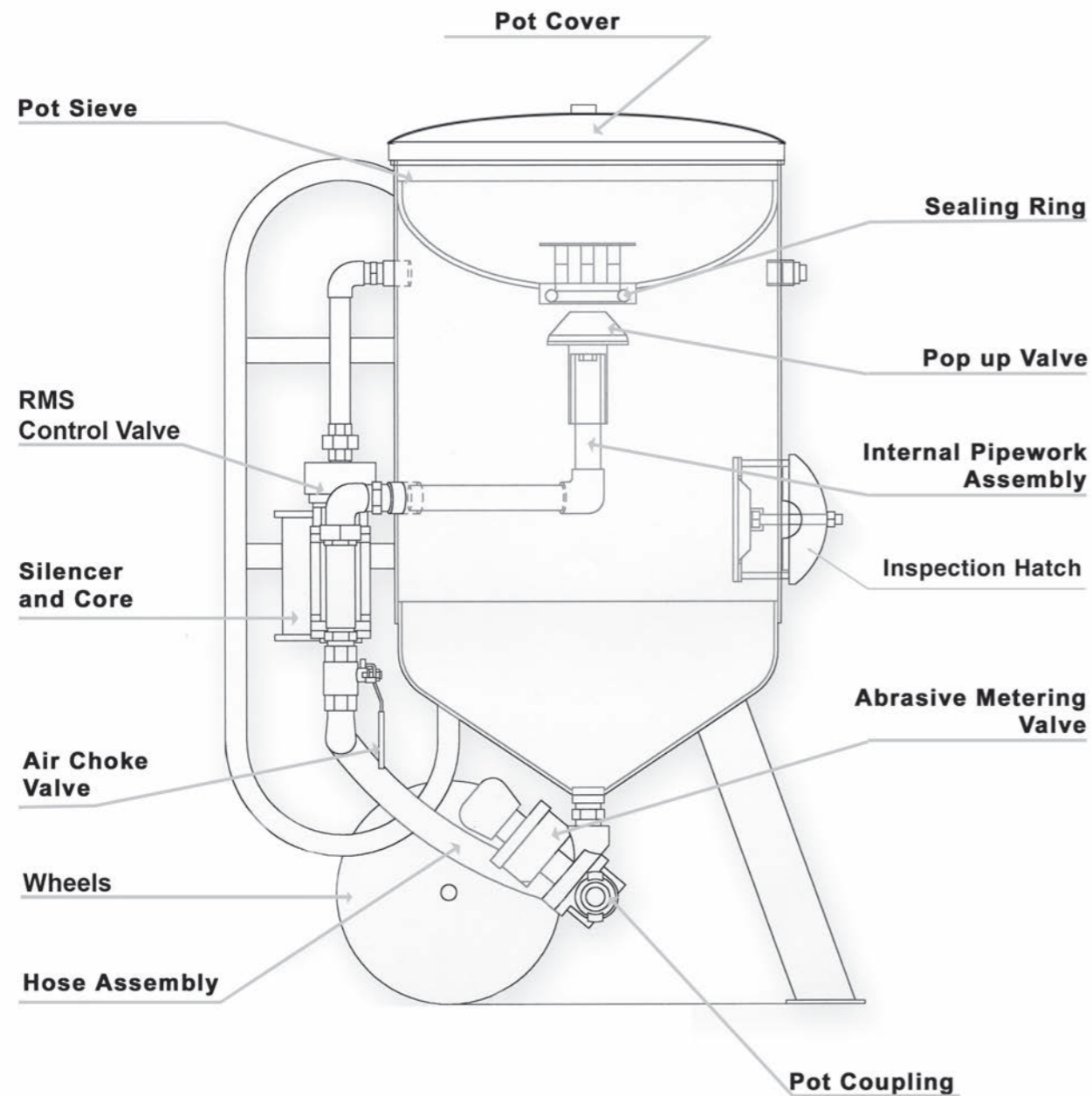
The **2040NC blast machine** is an ideal machine on heavy duty industrial applications where portability is still an important consideration. It has an expendable abrasive capacity of 150kg with overall dimensions of 1100mm high x 810mm x 960mm; approximate weight 140kg. This machine offers twice the capacity of the 1440NC machine, allowing its use on medium to larger projects. This type of unit is commonly used on bridge refurbishment work, general fabrication cleaning and larger shipyards.



The **2452NC blast machine** is the largest model in our standard range. It has an expendable abrasive capacity of 300kg with overall dimensions of 1320mm high x 850mm x 960mm; approximate weight 180kg. This machine offers twice the capacity of the 2040NC machine, making its use ideal on larger projects. Whilst this unit is readily portable it is commonly used on fixed blast room installations and other jobs where mobility is less important.



## Standard Blast Machines - Schematic



## Slurry/Wet Blasting

### Aquagrit (Wet & Dry Blast)

The robust Aquagrit dry and slurry blast units are ideal for heavy industrial cleaning applications and typical uses include but are not limited to: cleaning of ship hulls, tank internals, offshore maintenance and general steel fabrication. All Hodge Clemco Aquagrit machines combine the best of both wet and dry blast machines in one convenient solution.

When loaded with dry abrasive they operate as any standard Hodge Clemco blast machine. When operated as a slurry blast machine the media is totally saturated in water within the system, fully dampening any airborne fines and dust during the blasting process. The ratio of abrasive to water is approximately 1:1. Recommended abrasives range from 0.2mm particulate size upwards. All Aquagrit units are manufactured to the Hodge Clemco Contractor machine standards and accept Clemco spares. The range includes three vessel sizes: 1040, 1448 and 2050. Grit capacity is the only difference between the machines.



### Wet Blast Accessories



**Win Nozzle**

Water injection nozzles to be used in conjunction with the Husky Pump. A selection of nozzles are available.



**Husky Pump**

Air driven pump converts any dry blast machine to wet blast when used in conjunction with a Win Nozzle.



**WB1 Wet Blast Head**

The adapter is simply attached to the nozzle to allow water to surround the blast stream. Requires mains water pressure feed.

## IBIX Ultra-Portable Blast Machines

The IBIX range of ultra portable blast machines are designed with portability in mind. The unique IBIMAR range has low maintenance and can easily be taken into confined areas making it ideal for shipping and offshore industries.

The high grade aluminium construction makes the unit very light and at the same time robust. Wheels are fitted to allow the unit to be towed in a trolley form but the smaller IBIX machines can also be operated like a back-pack. Three versions of this machine are available to suit most budgets and application requirements.

Unlike conventional blast pots the IBIX units utilise a unique pistol style gun and nozzle arrangement which doubles as a deadman system for safety reasons.



## Closed Circuit Blasting Equipment

Closed circuit blasting units collect the spent material, remove any contamination and feed clean recycled grit back to the blast nozzle. They are used for applications where containing the airborne abrasive and dust is essential, especially in areas where other personnel are working. These machines provide a low cost and efficient cleaning solution.

### Eductomatic

The Eductomatic is a portable closed circuit suction unit. It provides effective containment of dust and abrasive. A range of heads are available to provide a seal against most surfaces. A 360° swivel blast head enables cleaning at all angles and with a total weight of 3 kg it is light and manoeuvrable. Air volumes of 33-60 cfm at 90 psi, are required to power the unit. A recyclable abrasive is normally used which is cleaned by the unit, with all dust contained in an attached dust bag or, for production use, in a separate dust collector. With easy filling and a blast pattern of approximately 32mm diameter the Eductomatic is a clean and simple unit to operate, ideal for those difficult areas.



### Eductoblast

Combining Hodge Clemco's standard portable blast cleaning equipment and abrasive recovery system creates an efficient closed circuit blast system - The Eductoblast is an air powered unit and is ideally suited for use with metallic abrasives. For other commonly used abrasives the addition of a spent material collection hopper is recommended. This collection hopper is particularly useful for safe disposal of lead based coatings. There are two models in the range, the EDB 60 and the EDB 75.

## Portable Suction Blasting Equipment

### SG300 Suction Gun

Essential for light duty blast cleaning when available air volumes are low. With a range of air jet and nozzle combinations to meet constraints of available compressed air, the SG300 will provide an easy answer to the infrequent blaster. Ideal for the smaller job where the abrasive hopper can be placed within 10ft (3m) of the surface to be cleaned. Nozzles used are tungsten carbide lined for a long life.

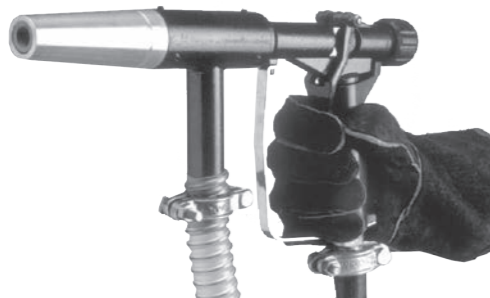


### SG400 Power Injection Gun

Designed for use without a pressure vessel, the unit lifts abrasive directly from the bag. With cleaning rates close to that of the 1028NC contractor machine this is a welcome addition to the operators equipment.

Also available as a wet blast model SG400W keeping dust down to a minimum by injecting water into the blast stream.

NB. A greater volume of air is required than normally used with the 1028NC for this unit to work at its optimum capacity.



## Other Specialist Machines

### EnviraSponge System

EnviraSponge has been specially developed to provide a low-dust environment, with clear visibility and reducing the need for dust suppression and on-site dust extraction. EnviraSponge media captures the dust at the source of generation. It is recyclable and minimises waste generated during surface cleaning. The main benefits are:

- A low-dust environment
- Containment of waste at the source
- Reduced need for dust suppression & extraction
- Greater dwell time for measured abrasive efficiency
- Enhanced surface cleaning and chloride removal from steel
- Confined spaces can be cleaned without affecting sensitive equipment

See our website: [www.envirasponge.com](http://www.envirasponge.com)



### 1448NC Soft Clean Multimedia Machine

Specifically developed to meet the needs of the stone cleaning industry where delicate control is required. The system is designed to use the complete range of micro abrasives including: Stonegrit Extrafine, other fine Aluminium Silicates, Calcium carbonate, glass bead and grit and speciality medias such as Bi-carbonate of Soda. Built to the same high spec as the Contractor machines the unit has many features to facilitate the needs of the stone cleaning industry.

- Operating pressures of under 0.5 bar can be achieved
- The system is able to utilise all commonly available nozzles from 2mm to 12.5mm diameter.
- The unit operates wet or dry (when the wash down facility is incorporated).
- Water consumption is approximately 4 ltr/min. Mains water supply is not required.



### Can Crusher

The unit compacts containers such as paint tins to a fraction of their original height in a few seconds thereby helping to reduce skip and handling costs. A 380mm can is typically compacted by approximately 80% to 75mm. The machine accepts cans up to 25ltr capacity (max 500mm high).



## Abrasive Metering Valves

A comprehensive range of abrasive metering valves to suit a wide variety of medias and can be fitted to any standard portable blast machine.



### IND11096 'MAJOR' VALVE

A robust abrasive metering valve with tungsten carbide sleeve to give long life. Accurate abrasive flow can be achieved with the fine thread control. Ideal for all abrasives. Suitable for use with the 1440NC, 2040NC and 2452NC portable blast machines.



### P17C STEEL GRIT VALVE

Recommended for aggressive metallic abrasives i.e. chilled iron, steel and aluminium oxide. Wide range of flow rates available. Replaceable liner for long valve life. (SGV3 & SGV3R)



### P7 EXPENDABLE ABRASIVE VALVE

Manufactured from high quality non-corrosive alloy, recommended for use with non-metallic abrasives. Precise abrasive flow can be easily maintained by use of the handle and quadrant arrangement.



### RCAMV (C/W Pilot Valve)

A remote version of our popular P17C with replaceable wear-resistant liners.



### MPC240 'MINOR VALVE'

A smaller version of the 'Major' valve, with urethane liner. Suitable for use with the 1028NC portable blast machines.



### RCAMV2 TEE PIECE & FLANGE

Required for connection of P17C



### SGV3 & SGV3R

High wear resistant rubber liner supplied with P17C and RCAMV remote control abrasive metering valves (above).

## Remote Control Valves

### RMS120 Silencer Core

Replacement filter material for the RMS110 Silencer, which reduces exhaust noise on de-pressurisation.



### RMS100D Remote Control Valve

The popular Hodge Clemco RMS100 with 1¼" port is fitted to all blast machines as standard. This valve allows the machine to be depressurised from a remote Deadman handle fitted at the blasting nozzle position.



### RMS2000E Remote Control Valve

This remote control valve is fitted with 1½" ports. The action of this valve allows the machine to be depressurised from a remote deadman handle fitted at the blasting nozzle. This eliminates accidents and reduces wastage.



### RCAMV6 Deadman Handle

Specifically for use with pneumatic abrasive metering valves. The RM88 Slide valve kit enables the operator to switch abrasive on and off at the nozzle purposes.



### RM21A Deadman Handle

The 'blasters favourite', widely used throughout the industry this safety trigger is recognised as the best for site blasting conditions (supplied as RCAMV6 for remote control abrasive valve)



### RM2000 Deadman Handle

For use with remote control abrasive metering valve. This handle does not bleed air when in standby.



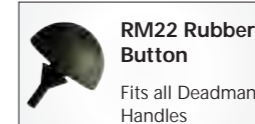
### RM28RK Repair Kit

Repair kit for RMS100 remote control valve. Kit contains all seals required to maintain remote control valve efficiency.



### RM2000RK Repair Kit

Repair kit for RMS2000 remote control valve. Kit contains all seals required to maintain remote control valve efficiency.



RM22 Rubber Button  
Fits all Deadman Handles

### Airlines

Colour coded 1/4" (6mm) air lines are essential components for the operation of safe blasting systems and provide easy identification of lines carrying air for deadman operation, abrasive control, breathing air etc.

HOSE7C	10m BLUE	HOSE7D	20m BLUE
HOSE7CR	10m RED	HOSE7DR	20m RED
HOSE7CY	10m YELLOW	HOSE7DY	20m YELLOW
HOSE7S10	10m Breathing hose	HOSE7S20	20m Breathing hose

## Ancillary Items



**P2 & P2A Pop Up Valve**

Automatic Pressure sealing pop-up valve with internal sleeve for all pre Contractor style blast machines.



**PNC22 Pop Up Valve**

Automatic pressure sealing pop up valve with external sleeve. Common size for all contractor machines.



**Comparators (Grit and Shot)**

Visual/tactile guide to surface roughness (ISO 7079) - Four segments having differing degrees of etch.



**P23X Water Separator**

Suitable for machines with 1½" pipe work



**Pot Cover and/or Sieve**

Prevents ingress of oversized particles into the machine. The loose pot cover prevents ingress in adverse weather conditions (When ordering please state model number of machine e.g. 1028NC, 1440NC, 2040NC, 2452NC)



**MP148X Water Separator**

Suitable for machines with ½" pipe work.



**R119G12C Pressure Regulator**

Diaphragm type pressure regulator, suitable for machines with 1½" pipe work.



**KB11 Gauge**

## Nozzles

Hodge Clemco manufactures a comprehensive range of blast nozzles. These include parallel bore, venturi, double venturi, side outlet and water injection nozzles. We have a nozzle to suit every application.

Our nozzle designs come in a range of material types. As a general rule the harder the abrasive, the harder the material type used in the blast nozzle.

Our lowest cost boron alloy nozzles are designed with budget and performance in mind and require the use of an LR1 nozzle retainer which clamps the nozzles in position. Our tungsten carbide nozzles are ideally suited for chilled iron abrasive applications with boron carbide being offered on hard abrasive applications such as aluminium oxide. A hard material nozzle offers extended life and cost savings on most applications.



Available in a range of bore sizes, our **Clemlite nozzles** are manufactured in a venturi profile, offering increased production rates. The Silicon carbide liner is securely protected in an alloy and polyurethane jacket. Silicon carbide nozzles are suitable for use with Chilled Iron & Aluminium oxide abrasives.



Available in a range of bore sizes, our **tungsten nozzles** are manufactured in a venturi profile, offering increased production rates. The tungsten carbide liner is securely protected in an alloy jacket. Tungsten nozzles are suitable for use with chilled iron abrasives.



Available in a range of bore sizes, our **Syclone nozzles** are manufactured in a venturi profile, offering increased production rates. The xylon liner is securely protected in a polyurethane jacket. Syclone nozzles are suitable for budget users and are aimed for use with aluminium oxide.



Available in a range of bore sizes, our **boron alloy nozzles** are low cost and require an LR1 nozzle adapter to clamp the nozzle into the nozzle holder. Suitable for our range of expendable abrasives such as Jblast and Stonegrit.



LR1



**Side-outlet nozzles.** Available in a range of bore sizes and outlet configurations. The nozzles are manufactured in 1, 2 or 3 outlet configurations. The tungsten carbide liner is securely protected in an alloy jacket. Tungsten nozzles are suitable for use with chilled iron abrasives.



Available in a range of bore sizes. Our **boron carbide nozzles** are manufactured in a venturi profile, offering increased production rates. The boron carbide liner is securely protected in an alloy jacket. Boron nozzles are suitable for use with chilled iron & aluminium oxide abrasives. This nozzle offers optimum life cycle.

# Nozzle Selection Guide

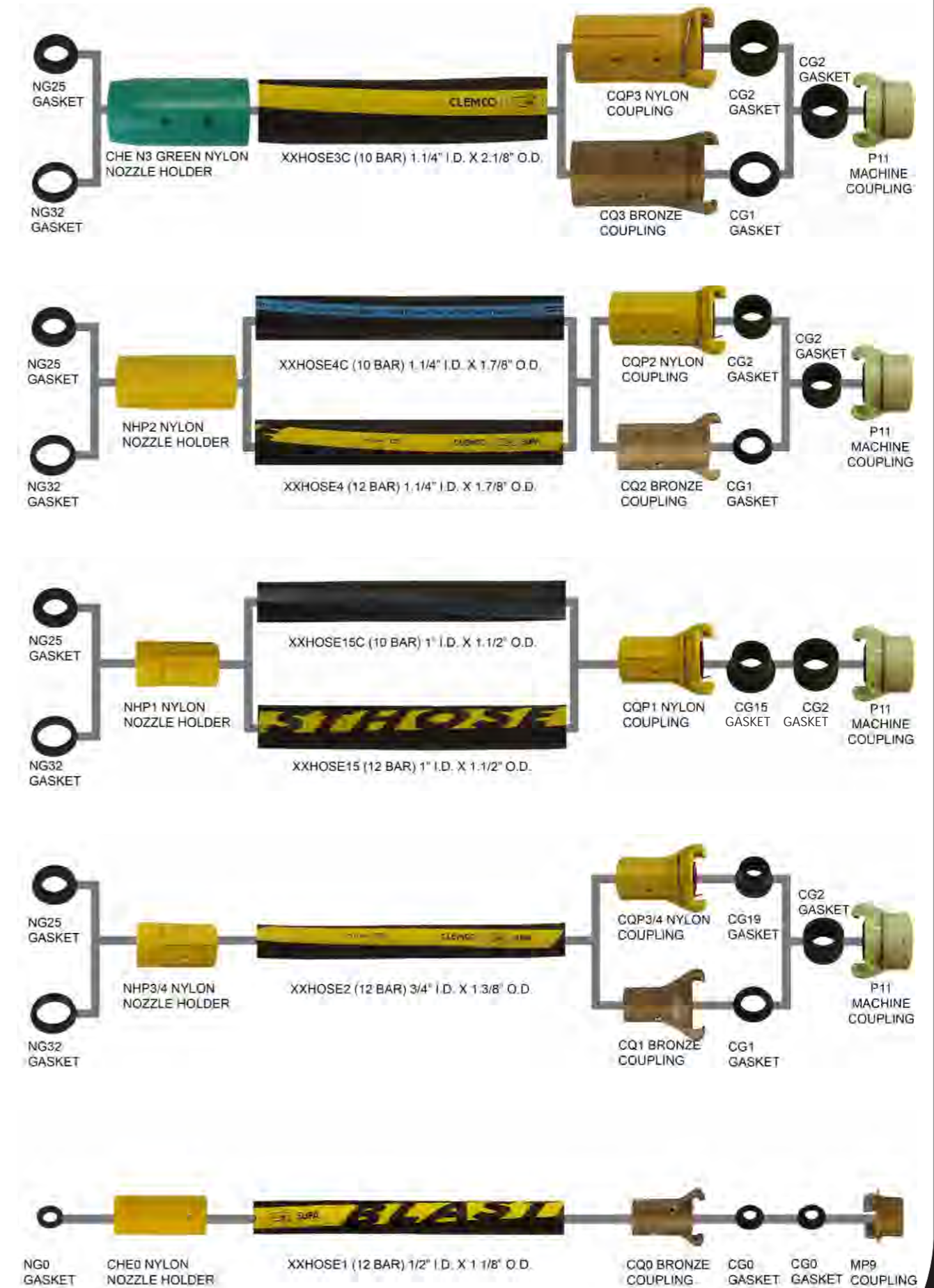
Nozzle Selection Chart								
Venturi Nozzles in ascending order of hardness								
Bore Size	1/8" (3mm)	3/16" (5mm)	1/4" (6.5mm)	5/16" (8mm)	3/8" (9.5mm)	7/16" (11mm)	1/2" (12.5mm)	Thread Type
Length	(45mm)	102mm	(130mm)	(140mm)	(165mm)	(197mm)	(222mm)	
Boron Alloy				CBSD5	CBSD6	CBSD7	CBSD8	Flanged
Boron Alloy (Side outlet)				CBSD51				Flanged
Tungsten Carbide		CTSD 350	CTSD 450	CTSDX 550	CTSDX 650	CTSDX 750	CTSDX 850	50mm
Silicon Carbide		SMR3	SMS4	SMS5	SXS6	SXS7	SXS8	50mm
Syclone (SY)			SY32450	SY32550	SY32650	SY32750	SY32850	50mm
Boron Carbide		CSD3B	CSD4B	CSD5B	CSDX6B	CSDX7B	CSDX8B	50mm
Straight Bore Nozzles in ascending order of hardness								
Length		(76mm)	(76mm)	(76mm)	(76mm)	(76mm)	(76mm)	
Tungsten Carbide		CTJD350	CTJD450	CTJD550	CTJD650	CTJD750	CTJD850	50mm
Tungsten Carbide (Side Outlet)		CAM *3350	CAM *4250	CAM *5150 /5250	CAM *6150 /6250			50mm
Length		(43mm)	(43mm)	(43mm)	(43mm)		(43mm)	
Tungsten Carbide	CT2L	CT3L	CT4L	CT5L	CT6L		CT8L	25mm
Boron Carbide	CB2L	CB3L	CB4L	CB5L	CB6L		CB8L	25mm

\*Second digit refers to number of outlets e.g. 4250 is 2 no. x 1/4" (6.5mm)

Air Consumption Table (cfm) Nozzle Pressure																	
bar	0.3	0.7	1.0	1.4	1.7	2.0	2.4	2.8	3.0	3.4	3.8	4.0	4.8	5.5	6.2	7.0	
psi	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	
1/8" (3mm)						8		10		11		13	15	17	18	20	A
									0.31		0.37	0.43	0.48	0.51	0.57		B
3/16" (5mm)						18		22		26		30	33	38	41	45	A
									0.73		0.84	0.92	1.06	1.15	1.26		B
1/4" (6.5mm)	18	21	25	28	31	34	38	41	44	47	51	54	61	68	74	81	A
									1.31		1.51	1.71	1.90	2.08	2.27		B
5/16" (8mm)	23	29	35	41	47	53	59	65	71	77	83	89	101	113	126	137	A
									2.16		2.50	2.83	3.16	3.53	3.84		B
3/8" (9.5mm)	32	40	49	57	66	74	83	91	100	108	117	126	143	161	173	196	A
									3.02		3.53	4.00	4.50	4.85	5.50		B
7/16" (11mm)	50	61	72	83	94	105	116	124	138	147	159	170	194	217	240	254	A
									4.12		4.76	5.44	6.09	6.73	7.11		B
1/2" (12.5mm)	68	82	96	110	124	137	152	165	181	195	210	224	252	280	309	338	A
									5.46		6.28	7.06	7.85	8.65	9.46		B

A = Discharge of air carrying abrasive in cfm  
B = m<sup>3</sup> per min

# Blast Hose & Couplings





# Personal Protective Equipment

Personal protective equipment (PPE) is the most important piece of equipment in any blast system. This equipment will keep you safe, secure and comfortable during any hazardous process. Everyone's requirements differ and for this reason we have a comprehensive stock of PPE to meet every application. Our website covers our most popular items; however, our warehouse stocks over 2500 product lines. If you require any help in identifying your spare parts please call 0114 254 8811 for assistance.



## Apollo 600 CE

This helmet provides unrivalled protection and comfort during blast cleaning and improves upon the already successful Apollo 60 design by adding an improved breathing air supply connection, visual indicator for low air flow and more user friendly head strap adjustment mechanism. The heavy duty latch system and peaked rim ensure that the lenses are held firmly in place for protection. The cape is securely attached to the helmet using a ratchet and clamp mechanism allowing the cape to be removed, laundered and refitted. An animation of the helmet features can be viewed on our web-site. All new air fed blasting helmets are required by law to be CE marked as complex items under BS EN 14594:2005 as the 600CE is marked.

### Apollo 600 CE Spares

- APH60002 Outer Lens
- APH60001 Intermediate Lens
- APH60000 Inner Safety Lens
- APH23815D Cape
- APH24012D Window Frame
- APH23819D Window Gasket
- APH238061I Helmet Suspension
- APH23801D Cape Attachment Band

For further spares please see the owners manual.



### The DLX Kit (APH25189)

The DLX comfort-fit suspension (2 sizes) surrounds the operators head with comfortable padding. The adjustable web suspension fits head sizes 6.5 to 8. An adjustable chin strap holds the helmet in position on the operator's head.



The **Apollo 60 CE** air fed blasting helmet is the ultimate in safety and comfort. It features a double shell construction that provides air circulation around the operators head. Noise levels inside the helmet are kept low, thanks to the unique air distribution. Air is brought into the top of the helmet, passes over the entire head and is filtered out through a knitted neck band that gently seals against the operators neck. All air fed blasting helmets are required by law to be CE marked. The Apollo 60 is marked as a complex item under BS EN 271.



The **Apollo 100** air fed blasting helmet is a budget choice helmet offering competitively priced safety and reliability. The viewing window is fitted with replaceable outer lenses and the inner support cap is designed for comfort, essential when wearing the helmet for long periods of time. The helmet is approved by the HSE. All new air fed blasting helmets are required by law to be CE marked as complex items under BS EN 14594.



### CPF03547 Filter Cartridge

This cartridge can be fitted to our BAF10, CPF20 and CPF40 range of breathing air filters. It is recommended that the filter cartridge is replaced at regular intervals to ensure the health and safety of the operator.



### CPF20 Breathing Air Filter

Designed to reduce pollutants in breathing air supplied to air fed helmets. The filter will remove mists (including oil mist), water vapour and particle down to 0.5 micron in size from a suitable supply of compressed air that is **free from carbon monoxide** in accordance with BS EN ISO 12021.



### PDH1 Disposable Hood

For additional protection when blasting or spray painting. The paper hood is hygienically essential when a helmet is being used.



### ED1 Ear Defenders

Our low profile defenders can fit below the Apollo range of blast helmets. Should additional protection be required they can be worn in conjunction with bud type ear protection inserts.



### Communication Sets

Our communication sets are available wired or wireless with push to talk or voice activated microphones. The headsets can link multiple operators to a single supervisor station which creates a safer working environment for your operatives.



The **climate control tube** connects to the breathing air supply of the Apollo helmet. The unit supplies the operator with warm or cool air. Temperature range is 10°C to 30°C providing more efficient working conditions, especially when used with a CBS2 blaster tunic (right) which provides temperature control to the entire upper body, arms and head.



### Air Quality Test Kit (D5185710)

The kit detects potentially hazardous gases and vapours which may be present in the supplied breathable air. Detector tubes are available for identifying carbon monoxide, carbon dioxide, nitrous oxide, hydrocarbons and water. Supplied in a carry case for convenience.

## Blast Suits



### Flame Retardant Wet Blast Suit

Offering unrivalled performance and protection across a wide range of applications.

Hodge Clemco has launched a fully tested and approved flame retardant blast suit, designed in conjunction with Shell and some of the UK's largest fabric maintenance contractors. The result is a suit capable of being used on both wet and dry blast processes in addition to being flame retardant. This allows the suit to be used at petrochemical sites, on and off-shore and applications where the operator works in a zoned environment.

Comfort is achieved by using high technology fabrics which allow full mobility and a breathable inner lining to help regulate body temperature. The heavy duty wear resistant fabric is manufactured to military standards and provides optimum wear resistance.



### APH BS1

Leather and cotton blaster suit offers comfort and durability. The leather is used to reinforce the high-wear areas of the arm, leg and body front sections where abrasive ricochet is foremost whilst cotton provides a more flexible material for low impact areas. Please state size when ordering.



### GLC2 Leather & Cotton Gloves

Heavy duty leather gauntlets with cotton lining give maximum protection from abrasive ricochet.

Chest Measurements	Flame Retardant Wet Blast Suit	APH BS1 Blast Suit
S	92-96 cm (36" - 38")	84-92 cm (33"- 36")
M	100-104 cm (39" - 41")	92-100 cm (36"- 38")
L	108-112 cm (43" - 44")	100-108 cm (38" - 42")
XL	116-124 cm (46" - 49")	108-116 cm (42"- 45")
XXL	128-132 cm (50" - 52")	116-124 cm (45"- 49")
Larger Sizes...	136 - 172 cm (53" - 68")	



### Inspection Suit

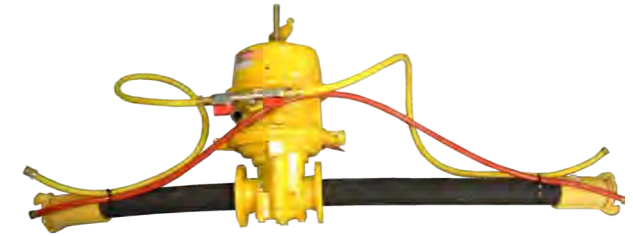
Where a high level of impact resistance is not required, the inspection suit provides protection from paint mist, dust and dirt. State size when ordering.

## Safety Equipment



### AG1N Agmec LED Lamp

Attached to the blast hose behind the nozzle this lamp produces a beam of light wherever the nozzle is pointed. 12V. (Not intrinsically safe for explosive environments).



### Emergency Stop Valve

Our range of emergency stop devices are tailored for aggressive working environments. Our "PVR Dead Stop System" allows for an almost instant abrasive cut off when linked to an RM21A deadman handle. This system is particularly useful for very long hose lengths where signal lag creates a delay from releasing the deadman handle to shutting off the flow of grit to the nozzle. Please contact your sales manager for further information on our range of emergency stop devices.



### HSE Bonded Hoses

Bad working practices can result in accidents. Our range of tamper proof hoses have been developed to ensure the correct and proper use of a deadman control system. By bonding the deadman handle and control lines to the blast hose ensures the deadman handle is operated to provide the safest working environment. The use of tamper proof screws on all couplings ensures that the system operates as designed by Hodge Clemco, which means in the safest way possible.












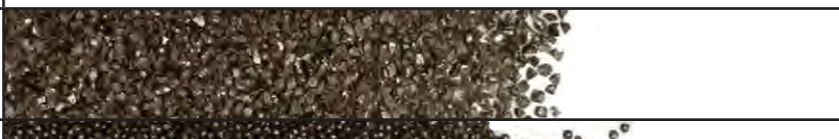






### Tripod Emergency Stop

Our emergency stop device consists of a pneumatic EM button, tripod mounted, and fitted at any location along the deadman handle line. This unit is supplied with all the fittings to allow the unit to be retrofitted to any deadman enabled handle system. Our unit allows for the intervention of other users to switch off the blast machine in the event of an accident.



### Blast Off 2

An excellent guide to all basic principles of blasting procedures in an easy to read form. Many useful charts and essential tips; regarded as the industry's 'bible'.

Expendable		Grade	Application
JBlast Standard		A synthetic mineral abrasive available in both Iron Silicate or Aluminium Silicate forms. Grain size 1.4 - 2.5mm	Provides a coarse etch or anchor pattern. Ideal for cleaning off heavily corroded steel, marine growth, heavy coatings, cement buildup and prior to metal spray.
JBlast Supa		A synthetic mineral abrasive available in both Iron Silicate or Aluminium Silicate forms. Grain size 0.2 - 1.5mm	Gives a high cleaning rate and etch acceptable for most industrial coatings e.g. ship's hulls, tank internals, pipe joints and general steel fabrications.
JBlast Supafine		A synthetic mineral abrasive available in both Iron Silicate or Aluminium Silicate forms. Grain Size 0.2-0.7mm	Provides a fine finish with a low profile for modern low build paints, selective coating removal, high performance wet blasting, motor body repairs etc.
Jblast Special		A synthetic mineral abrasive available in Iron Silicate form. Grain Size 0.15 - 0.2mm	For cleaning surfaces where an etch or anchor pattern is not required. Ideal for decarbonising, fan blade cleaning, furniture restoration etc.
SC		A light coloured calcium silicate synthetic mineral abrasive	Typical application include wood, brick and masonry renovation etc. The only abrasive we recommend for green oak.
Stonegrit Coarse		A Calcium Silicate synthetic mineral abrasive. Grain size 1.4 - 2.5mm	Typical applications include brick and masonry renovation etc.
Stonegrit Fine		A Calcium silicate synthetic mineral abrasive Grain size 0.2 - 1.5mm	Ideal for the removal of old coatings and heavy grime on natural stone and brick facing, decorative effects on masonry cleaning and restoration work.
Stonegrit Extrafine		A Calcium Silicate synthetic mineral abrasive. Grain Size 0.2 - 0.7mm	Suitable for natural stone and brick face cleaning. Also the cleaning of special finished surfaces such as stainless steel, aluminium and others.
GreenBlast		Produced from recycled bottle bank glass available in two sizes. Grain size: 0.2 - 2.5mm	Developed for use on ornate or soft stonework and removal of graffiti from decorative panels.
AquaGrit		A controlled mixture of inert recycled products.	Can be used on most substrates in our slurry and wet blast machines and is a cost effective substitute to garnet.
<b>Recyclable</b>			
Chilled Iron		Metallic iron abrasive available in 12 sizes from G2-G80	Generally used in blast rooms, cabinets and closed circuit blasting systems.
Steel Shot		Tempered steel in a spheroid form available in a range of sizes	Mainly used in airless blasting and for shot peening applications.
Aluminium Oxide		Virgin Brown & White fused aluminium oxide supplied in sizes 14 to 220 mesh	Used for cleaning nonferrous components, glass etching and providing a profile on stainless steel and aluminium
Glass Bead		Soda-lime silicate glass beads available in a range of 10 material size and a hardness of 6 moh.	Bead blasting a range of substrates to provide a cosmetic finish.
EnviraSponge		Sponge coated abrasive.	Sponge coated abrasive reduces dust generated during blast cleaning. Available in aluminium oxide and chilled iron types.
<b>Specialist</b>			
Garnet		A hard natural mineral	For high performance blasting and sites requiring low dust levels. The coarser grades may be recycled a number of times. The smaller sizes are ideal for water jet cutting applications.
Calcium Carbonate		Fine carboniferous limestone	Ideal for paint stripping wooden frames and doors, stone cleaning and engine part cleaning.

## Cabinets

Hodge Clemco offer a comprehensive range of both standard and bespoke pressure and suction hand blast cabinets. Cabinets include a light unit, and a blow-off gun in addition to the blast nozzle, Vestibules can be fitted to the doors for larger components.



### 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 five 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.



### Suction Cabinets

Suction Blast Cabinets provide the ideal cleaning and finishing solution to many coating and corrosion problems. 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. Vestibules can be fitted to the doors for larger components.



### Bespoke Cabinets

Although Hodge Clemco offers an extensive range of standard equipment, bespoke equipment and cabinets often have to be engineered according to a strict specification. The entire design and manufacture process takes place at Hodge Clemco to ensure a smooth and successful implementation of a new design.

*Twin cabinet with track*



### Smart Cabinets

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.

## Blast Rooms

Over 50 years experience in blast cleaning ensures the production of a blast room which will operate to the levels required by the most demanding customer. The Ministry of Defence have placed their confidence in Hodge Clemco to produce many of their blast rooms world wide. A comprehensive consultation, design and after sales package is offered. In-house manufacturing enables the optimum blast room facility for the individual customer to be provided every time.

### Containerised Design

When factory space is at a premium or a temporary site is to be utilised the containerised blast room provides an instant and economical solution. Containerised booths are based upon standard freight container sizes which reduces the design and fabrication costs that are normally associated with blast room manufacture. The flexibility of this design means that the client can specify the type of recovery system, dust collection system and size of the unit to suit their needs. Our containerised booths are fully weather proofed and can be positioned indoors or outside your factory.



Hodge Clemco also manufactures a range of larger telescopic containerised booths which are designed specifically for the freight and vehicle refinishing industry.

### Panelled Booths

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.



### Acoustic Booths

Where noise reduction is paramount Hodge Clemco offers a purpose designed range of equipment to meet these needs. Our acoustic booths are manufactured from composite panels filled with Rock wool with steel inner and outer skins which provide excellent noise and thermal insulation properties. Our engineers fully assess site conditions to optimise the noise reduction properties of any acoustic blast room we supply.



### Blast Room Equipment

Hodge Clemco's portfolio includes an extensive range of grit recovery, grit recycling and dust collection equipment. Our engineering and manufacturing expertise enables Hodge Clemco to offer tailored solutions to fit any preexisting site conditions. Often making use of clients' existing buildings can offer significant cost savings. In addition Hodge Clemco provides an upgrade service to existing plants which can help reduce down time, increase productivity and lower running costs. As part of our service we offer lighting, rubber lining and installation with our equipment to complete our overall package.

## Internal Pipe Cleaning

Hodge Clemco pipe cleaning tools are designed to blast clean the interior of pipes, tubes, flues etc., removing stubborn millscale, rust, carbon, coke, paint etc. The cleaning action leaves the surface free from dust, abrasive and contaminants ready for the application of long-life coating systems. Hodge Clemco's cleaning tools are suitable for both new and existing installations with complete 360° coverage without the need to rotate pipes. Tools simply couple via blast hose to suitable blast cleaning machines, for one man operation. These tools are complemented by the Rormaster pipe coating tools



### Holloblast Junior - JHB 1

Cleans 19mm-51mm i.d. pipes. The smallest tool in the range. Tungsten carbide deflector tip fitted for long life. Mounts on 9.5mm IPS pipe lance.

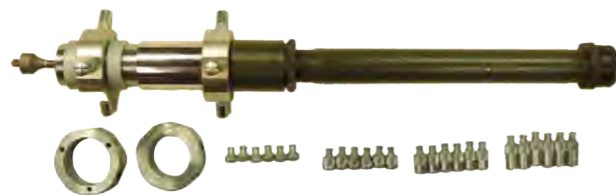
Air consumption:  
80 cfm @ 100 psi (2.3m<sup>3</sup>/min @ 7 bar)



### Holloblast - HB 1A

Cleans 51mm-76mm i.d. pipes. In its basic form cleans pipes up to 40ft (12.20 metres) lengths. Fast simple and highly effective for the toughest assignments. Tungsten Carbide deflector tip fitted for long life.

Air consumption:  
13mm Nozzle 200 cfm @ 100 psi (5.6m<sup>3</sup>/min @ 7 bar)  
16mm Nozzle 350 cfm @ 100 psi (10m<sup>3</sup>/min @ 7 bar)



### Holloblast HB 1A with HBC 1 centering device

Cleans 76mm-127mm i.d. pipes. Basic HB 1 tool fitted with adjustable steel collars.

Air consumption:  
200 cfm @ 100 psi (5.6m<sup>3</sup>/min @ 7 bar)



### Holloblast HB 1A with HBC 2 adjustable carriage

Cleans 127mm - 305mm i.d. pipes. Basic HB 1 tool fitted with adjustable centering carriage constructed from aluminium. Lightweight, rugged and efficient in operation.

Air consumption:  
350 cfm @ 100 psi (10m<sup>3</sup>/min @ 7 bar)



### Spinblast - SB636

Cleans 165mm-914mm i.d. pipes.

Spinblast Air consumption:  
200 cfm @ 100 psi (5.6m<sup>3</sup>/min @ 7 bar) to  
400 cfm @ 100 psi (11.2m<sup>3</sup>/min @ 7 bar).  
(Please state nozzle size when ordering)

SB.636 Nozzle & Air Requirement			
SB.636 Nozzle & Air Requirement	TC Nozzle No. (Two required)	Nozzle Size in inches (mm)	Compressor Requirements
6.1/2" - 10" (165 - 254)	SB-636-13 SB-636-14	1 3/4" x 1/4" orifice (44 x 6) 1 3/4" x 5/16" orifice (44 x 8)	250cfm (7m <sup>3</sup> /min) 250cfm (10m <sup>3</sup> /min)
10 - 24" (254 - 609)	SB-636-15 SB-636-16	3" x 5/16" orifice (76 x 8) 1 3/4" x 3/8" orifice (44 x 9.5)	350cfm (10m <sup>3</sup> /min) 600cfm (17m <sup>3</sup> /min)
24" - 36" (610 - 914)	SB-636-17	4" x 3/8" orifice (100 x 9.5)	600cfm (17m <sup>3</sup> /min)

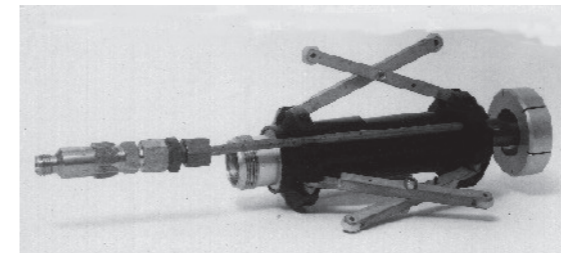
## Internal Pipe Coating

Hodge Clemco pipe coating tools are designed to coat the insides of pipes, tubes, flues etc., quickly and evenly without the need to rotate the workpieces. The units are supplied complete with a control gun, adjustable legs 3, 5, or 10 metres of air control hose and fluid hose.

The coating to be applied is pumped from an airless paint spray machine (see 'Paint Spray Equipment' section) through the control gun and fluid hose to a rotating head. The coating material is atomised by the speed of the rotating head and thrown by centrifugal force onto the internal wall of the pipe. A tungsten carbide spray tip located behind the head acts as a flow check to give a controlled flow of material.

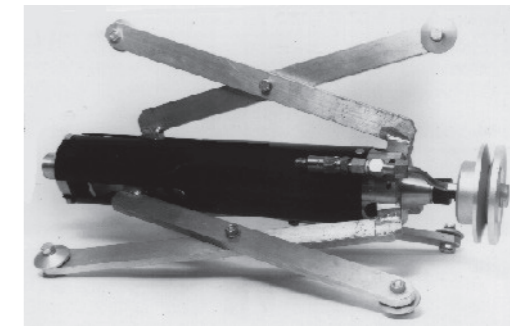
Compressed air is supplied from the control gun, through the control hose to the unit. One hose supplies the air motor and a second feeds air to the support legs. The two hoses are located inside a rigid nylon outer hose through which exhaust air passes

The minimum pump pressure ratio required is 30:1 with an output of 6.06 litres/minute. However for best results we recommend a Graco King 56:1 airless spray unit with an output of 12.87 litres/minute.



### Mini Rormaster R9003

For pipes 90mm to 180mm



### Rormaster II R9001

With set of extension legs for pipes 180mm to 950mm.



### Control Gun R9400

Complete with facilities for adjustment of the extension legs, on/off control of the rotating head and coating material.



### Control Hose R9101

Available in lengths of 3, 5 and 10 metres. Hose lengths can be coupled together.

## Paint Spray Equipment



HD63

Pump ratio	63:1
Delivery at 60 cycles	9.50 litre
Max. Free flow DIN 24374	39.00 litre
Air inlet pressure range	35 to 75 psi (2.5 to 5 bar)
Max. Outlet fluid pressure	5020 psi (346 bar)
Recommended max tip size	0.059"

A high pressure unit designed for the application of the most demanding heavy duty industrial, marine and offshore coatings such as Coal Tar Epoxy, Glass Flake etc. Also available as a 45:1 ratio unit.



TEL30

Pump ratio	30:1
Delivery at 60 cycles	3.66 litre
Max free flow DIN 24374 1	13.50 litre
Air inlet pressure range	35 to 100 psi (2.5 to 7 bar)
Max outlet fluid pressure	3900 psi (270 bar)
Recommended max tip size	0.041"

A medium/high pressure unit designed for the application of medium duty coatings such as chlorinated rubber, silicates etc. Ideal for applications where the heaviest duty coatings are not required.



BUD23

Pump ratio	23:1
Delivery at 60 cycles	1.62 litre
Max free flow DIN 24374	8.50 litre
Air inlet pressure range	35 to 100psi (2.5 to 7 bar)
Max outlet fluid pressure	3335 psi (230 bar)
Recommended max tip size	0.025"

A medium/low pressure unit designed for the application of conventional coatings such as acetates etc. Ideal for applications where lighter duty coatings are to be applied.

## Accessories For Airless Spray Equipment



Pneumatic paint stirrer



High pressure paint valves



Airless spray gun with reversible tip and holder



Airless pole gun

Graco Accessories

**GRACO**



High pressure paint hose assemblies



MPV601N Air Fed Visor Kit

CE Approved air-fed visor and breathing air filter.

## Training



On-site practical (portable)



Informal theory session



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
- Abrasive Blasting - Blastroom installations
- Abrasive Blasting - Cabinet operations
- Airless Spray Painting
- Combined Abrasive Blasting & Airless Spray Painting
- Plastic Media Dry Stripping
- Equipment specific specialist modules - i.e. blasting helmet and breathing air monitoring

Our training courses are available in-house or at our customer premises and are suitable for novice and experienced people alike. For details on the above please call 0114 254 8811 or contact us by email at [sales@hodgeclemco.co.uk](mailto:sales@hodgeclemco.co.uk).

## Servicing

Our after-market team consists of a dedicated Service Manager, a service administrator and a team of full time service engineers. The service team has many years of experience within the surface finishing industry and are able to carry out planned and reactive preventive maintenance in line with our TOTAL Care service packages. The team can also assist you with future plant refurbishments and upgrades on our own and other manufacturers' equipment, and offers an unrivalled level of support.

For further assistance please contact one of our service team on 0114 254 1520 or email us at [totalcare@hodgeclemco.co.uk](mailto:totalcare@hodgeclemco.co.uk)

Hodge Clemco offers a range of maintenance packages designed around our customers' needs. Your choice will depend on the level of cover required to ensure your equipment meets your production targets, and the effect that any machine downtime may have within your business. Whether it is just a one off inspection visit or a tailored Gold service package, TOTAL Care has the maintenance solution for you.

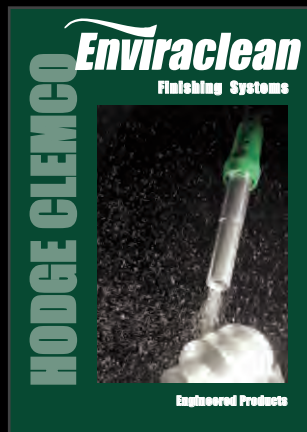


# Hodge Clemco Ltd

incorporating *Mac'Ants*

Please call or visit our website for any further information.

Other brochures available:



Finishing Systems



Marine Equipment



Coating Systems

**Call +44 (0)114 254 8811**

36 Orgreave Drive, Sheffield S13 9NR

Fax +44 (0)114 254 0250

Email [sales@hodgeclemco.co.uk](mailto:sales@hodgeclemco.co.uk)

**[www.hodgeclemco.co.uk](http://www.hodgeclemco.co.uk)**