

CLEMCO®
INTERNATIONAL

***Global engineering –
Trusted solutions***



***Engineered
by Clemco***

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[click here](#)

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Global engineering – Trusted solutions

Clemco was founded in the USA in 1949 with the joint goals of providing revolutionary high-production abrasive blasting technology and of setting a new standard for product quality, maximum efficiency and operator safety and comfort.



Global –

Everywhere and always there

Over the past 65 years, Clemco has developed a global network of manufacturing sites, offices, stocking distributors and dealers to provide our customers with reliable products, service and support. Today, Clemco is proud to be the largest air-powered abrasive blast equipment supplier in the world, with a commitment to our customers that remains unchanged year after year.

Loyal –

Integrity and Respect

Clemco bases its business on long-time relationships with distributors and customers, and we maintain these relationships through trust, commitment and dependability.

Enduring –

Capable and Consistent

Clemco employs the finest in engineering expertise and safety compliance to provide effective, durable and high-performance abrasive blast, containment and safety products. With decades of experience and dedication to innovation, Clemco continues to set the standard in blast equipment worldwide.

***Global engineering –
Trusted solutions***



+ Custom configuration

+ High efficiency

+ Innovative design

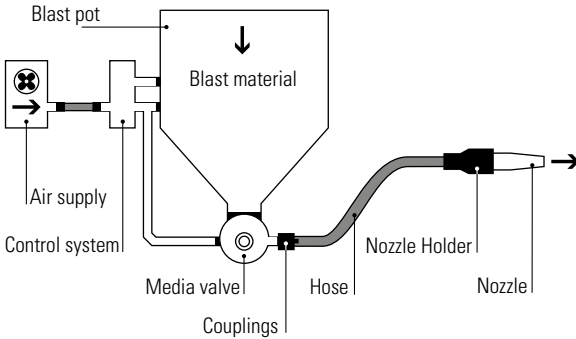
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Pressure Systems –

We have everything you need for optimal results

The blast machine is the heart of the pressure blasting system. Attention to the proper configuration and compatibility of the machine's components is crucial and ensures maximum blasting efficiency. Thanks to Clemco's wealth of experience and commitment to innovation, Clemco products deliver high levels of reliability, longevity, and safety in abrasive blasting.

System components



A wide selection combined with technical knowledge produces excellent results. The proper selection of all system components in a blast machine is crucial to achieving the highest level of efficiency. Blast machine construction, capacity, media valve type, hose and nozzle, properly selected, will provide the ideal solution for any job requirement.

Our staff and distribution network can develop the optimal blast machine configuration for any application.

Decades of experience and development form the basis for the design and construction of Clemco blast pots. Top-quality materials and state of the art production methods deliver a product with one of the longest lifetimes in the industry.

Abrasive wear, an unavoidable reality, is minimized by the careful positioning of exposed components, which can be adjusted and replaced quickly. Clemco's inventory of spare parts can keep a blast pot running for decades.

Blast Pots



BIG CLEM - Mobile

Mobile Blast Unit

- Wear-resistant materials
- Produced and certified after CE-standards
- Guaranteed spare parts supply
- Different pot sizes with 20, 40, 50, 60, 100, 140, 200, 300 liters
- Individual equipment for every application
- Mobile and fixed installed solutions
- Customized blast pots between 20 and 4500 l
- Double chamber pot 300 l, especially for several operators and automatic processes

Pressure System Accessories

Clemco offers a complete product range in the pressure blast sector to its customers and sets the standard in the market. Therefore we only use selected raw materials for high quality products. All our customers profit from our extensive experience and the opportunity to get everything from a single source. Take advantage of harmonized systems and increase your economic efficiency and the efficiency of your work.



Clemco complete blasting systems

Pneumatic and Electric Remote Control Systems



Pneumatic and Electric Dead Man Handles



- Optimized to minimize pressure loss
- Optional interlock and double function
- Electric version for faster reaction and greater ranges

Metering Valves



- Only made from high quality and wear-resistant components with long lifetime
- Suitable for every media
- Optimal media flow
- Highly economic

Nozzles



Sizes and Inner Contour

- Inner diameters 3 - 19 mm
- Lengths 40 - 230 mm
- Venturi liner

Liner Materials

- Tungsten carbide
- Silicon carbide
- Boron carbide

Jacket Materials

- Aluminum
- Polyurethanes
- Rubber

Special Nozzles

- Ankle nozzles
- Stick-up nozzles
- Curved nozzles

Ø	3,5 bar	4,2 bar	4,9 bar	5,6 bar	6,3 bar	7,0 bar	8,6 bar	10,3 bar
5,0 mm 3/16"	0,73	0,84	0,92	1,06	1,15	1,26	1,54	1,82
6,5 mm 1/4"	1,31	1,51	1,71	1,90	2,08	2,27	2,75	3,22
8,0 mm 5/16"	2,16	2,50	2,83	3,16	3,53	3,84	4,71	5,57
9,5 mm 3/8"	3,02	3,53	4,00	4,50	4,85	5,50	6,64	7,79
11,0 mm 7/16"	4,12	4,76	5,44	6,09	6,73	7,11	8,80	10,48
12,5 mm 1/2"	5,46	6,28	7,06	7,85	8,65	9,46	11,46	13,45

Air consumption in m³/min



Couplings

Materials:

- Bronze
- Nylon
- Cast iron
- All with safety lock



Materials:

- Nylon
- Aluminium

For nozzles with:

- Fine thread 3/4" - 1 1/4"
- Coarse thread 25 / 50 mm
- Different hose diameters



Blast Hoses

- Extremely abrasion-resistant inner core with long lifetime
- Abrasion of inner core according to DIN ISO 4649:2006: 36 mm³ (SM-1) and 50 mm³ (SM-2)
- Multi-layer design
- Different diameters and lengths

Global engineering – Trusted solutions



+ CE approved

+ Unparalleled safety

+ Complete comfort

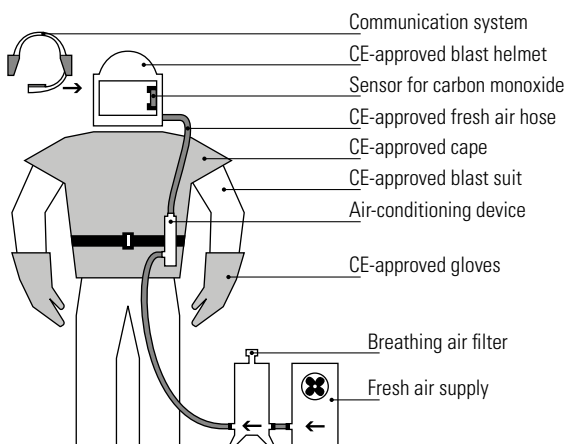
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by Clemco**

Operator Protection – Complete protection, complete comfort

The first priority is operator safety. Clemco CE-approved accessories protect the blast operator from excessive heat, cold, dust and noise; all irritants and safety risks are addressed. Protection in tandem with comfort is the focus of Clemco safety products to ensure the highest level of productivity.

Abrasive blasting carries with it a risk of injury. Reliable safety equipment is therefore indispensable. Clemco has developed one of the highest-quality protective systems available to provide comfortable conditions in the blast environment and total safety for the operator.

➕ **System components**



Protective Equipment



Safety leather gloves

- Blaster suits in different sizes and types
- Safety leather gloves
- CE-certified components
- Air filter for clean breathing air
- Blaster helmets with air supply

Apollo 600 & 100 Blast Helmets



Apollo 600



Apollo 100

- Optimal fresh air circulation
- Impact protection
- Adjustable fit
- Complies with international safety standards
- Tear-off lenses
- Noise reduction
- CE-certified

CPF-Air Filter



- Removes oil mist and water
- For particles up to 0.5 micrometers
- CPF-20 for one operator
- CPF-80 for four operators

Carbon Monoxide Warning Device



CMS-3 for blast helmets



CMS-2 for multiple operators

Blast Light



Beacon LED



Standard blast light

- Increases visibility under bad lighting conditions
- Beacon LED with 9 - 48 V
- Standard light 12 V or 24 V - 20 W

Cooling and Warming Systems



Clemcool



Cool Air Tube AC



Climate Control Tube CC



Comfort Vest

- Cools incoming breathing air
- Combined cooling and heating device (CC)
- Comfort Vest for cooling and heating in extreme conditions

**Global engineering –
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+ Effective spot-blasting

+ Flexible mobility

+ Simple operation

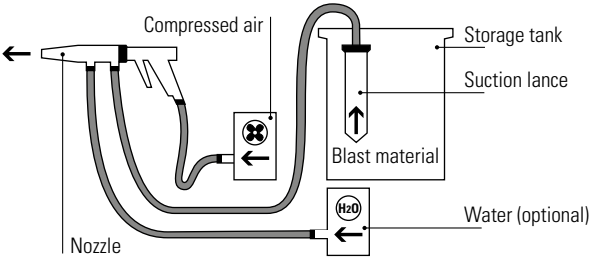
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Injector blasting –

Effective portable blasting systems

Clemco injector technology provides robust blast pressure despite low air consumption through finely-tuned components assembled with skillful technical knowledge. The injector blast equipment offers considerable surface coverage and long-lasting power, while keeping the operation highly mobile and as simple as possible.

➕ **System components**



Injector Blasters



Power Injector Gun

SG-300 complete

SG-300

- Portable suction system
- Low air consumption
- For slight and medium impurities
- Perfect for repair work, sensible and thin surfaces

Power Injektor Gun

- High blasting performance
- Blast media can be sucked directly out of the media bag
- Power Injektor Gun Universal with water connection for dust free blasting

SG-300

- Low air consumption with 0.2 - 3.0 m³/min at 6 bar

Global engineering – Trusted solutions



+ Compact design

+ Minimal energy usage

+ Easy and comfortable operation

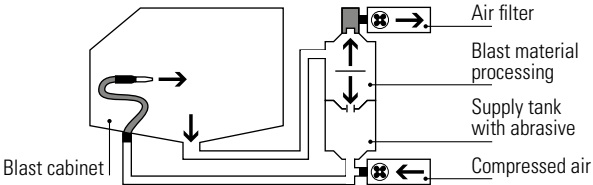
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Blast cabinets –

Precise, enclosed technology for compact spaces

Clemco blast cabinets are ideal for the processing of small to medium sized workpieces. The sturdy yet compact design of Clemco's cabinets ensures that a minimum amount of space and resources are required for simple, convenient blasting. The features built into each cabinet enable blasting with high efficiency and safe work conditions.

System components



Blast cabinets are offered with a massive range of options and can be tailored to any customer's needs. Clemco staff and distribution work closely with each and every customer to ensure the perfect solution is provided, with a guarantee of years of reliably high performance.

Clemco sets the standard for durable blast cabinets with high quality, consistence and performance. All cabinet sizes, from tabletop to mini blast rooms, are built using proven, high-quality components and longtime technological expertise.

All operators of Clemco blast cabinets are kept completely safe from the blast environment, interacting externally with the product inside the workchamber via sealed, durable work gloves. No dust particulate or airborne contaminant exits the blast cabinet, hence the cabinet presents no risk to any work environment or personnel. The cabinet can be used anywhere in a shop; forklift pockets and lifting eyes are provided to give the customer the flexibility to place the cabinet anywhere, anytime.

Pulsar



- Compact cabinet with integrated cyclone cleaner and cartridge filter
- Different cabinet sizes
(max. blast room size 1270 x 1030 x 1270 mm)
- Available as suction or pressure system

BNP



- Flexible and modularly configurable
- Separate cyclone and filter unit
- Different cabinet sizes
(max. blast room size 1780 x 1660 x 1780 mm)
- Available as suction or pressure system

Pulsar II



- Provides almost all advantages of the Pulsar series
- Optimal for smaller blasting processes
- Available as suction or pressure system
- Adjustable height

Kit-Cab



- Suction blast cabinet
- Also available as do-it-yourself set (transported on one EURO-pallet)

Cabinet Options for Pulsar and BNP



Pipe carriage with truck



Gate for cabinet



Turntable with or without truck



Tumble drum

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+ Meticulous planning

+ Thorough and complete sample testing

+ Designed for maximum efficiency

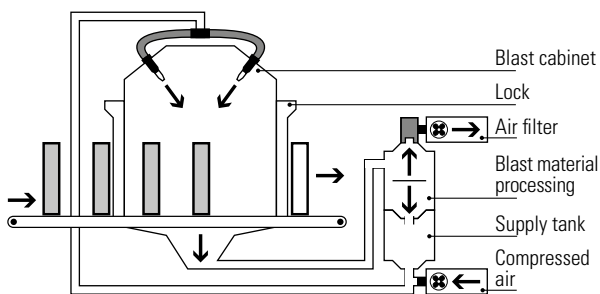
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Automation –

Seamless integration into the work process

Automated cabinet blasting offers distinct advantages for the processing of large-volume production runs and ensures accurate and consistently repeatable results. In Clemco's test lab, careful sample evaluation, planning and testing form the basis for the design of a specific automated system. Clemco automated cabinets are designed to perform at peak efficiency while fitting seamlessly into a customer's production line.

➤ **System components**



The specifics of a product and its desired finish are the deciding factors when designing a blast system. Clemco works closely with its customers, designing customized solutions that coordinate blast requirements, production specifics and process parameters in perfect harmony.

Automated systems are built to completely conform with all necessary parameters set forth by the customer, and can range from modified standard systems to completely original designs, regardless of the application.

All automated systems are produced using state-of-the-art technology and design to enable totally contained blasting, media recycling and dust containment.

A-200 Satellite Unit



- Automatic blast and blow off cabinet in one unit
- Available with 6 or 12 satellites
- Highly efficient automated processes

Tumble Drum Cabinet



- Different sizes for different volumes
- With timer
- Extendable catch tray

Customized Solutions



Titanium-cylinder blast unit



Decontamination unit

Clemco has a solution for every problem. Due to many years of experience and continuous development of our products, we are able to fulfill nearly every customer request. Performance, productivity and efficiency are essential for our work. The Clemco engineers take on every challenge, no matter if automated cabinets or single processes: Clemco has the suitable machine to your request.

***Global engineering -
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+ Efficiency

+ Workplace safety

+ Environmental protection

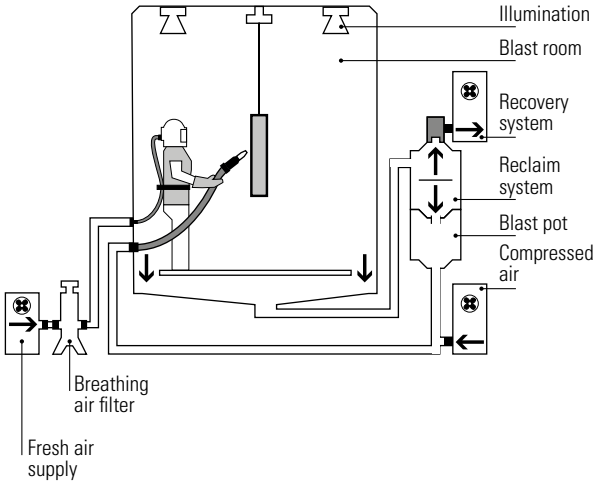
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Industrial systems -

Controlled environments for premium blasting

Custom - designed blast facilities are the optimum solution for large workpieces. Clemco staff methodically works with each and every customer to determine their exact requirements. Using this data, Clemco engineers design a system tailored to every specific of the job, taking into account each consideration of safety, efficiency and performance. Clemco quality blast facilities set the industry standard worldwide, and every detail reflects this commitment.

➤ **System components**



For decades, Clemco has been designing and planning both mobile and stationary blast facilities for nearly every blast application worldwide. Our staff analyzes a customer's work process, local safety and environmental requirements and productivity needs, and incorporates all of the above into the perfect solution for the best price. Be it upgrading and improving an existing stationary or mobile system or designing one from scratch, Clemco will deliver a state of the art system tailored to any need.

We size and design our blast facility components to correspond directly with the parameters of workpiece size, floor space, blast application, abrasive media, process integration and safety. Customized parts handling, automated blast options, ergonomic work stations and specialized media recycling are all available and can be built to suit any specific of the blast process. Dust collection for combined paint and blasting, metallization, dehumidification, filtration and all other air process options are also available and can be incorporated however necessary to provide the cleanest blast facility in the market.

Blast Chambers



Efficiency through completely coordinated systems:

- Blast media recovery
- Blast media recycling
- Filter unit
- Blast unit
- Dehumidification



Stationary Components



Cartridge Filter

- Filter class M
- Filter area between 13 - 858 m²
- Blower performance 1500 - 50.000 m³/h



M-Section

- Waffle floor with complete recovery of the blast media
- Perfectly suitable for light media
- Easy and effective design



Full Floor System

- Full automatic media recovery
- Highly efficient
- Designed without sensitive ball bearings



Bucket Elevator

- Vertical transport of blast media into the cleaning cycle

Suction Units

- Different sizes
- Media recovery up to 35 tons /h
- Integrated cartridge filter



MB 220 with complete
system



MB 1600 suction unit



MB 5000 suction unit

Mobile Equipment



Suction Units

All suction units are equipped with forklift pockets and crane eyes



Filter Units

- Performance
10.000 - 20.000 m³/h
- Filter area 120 - 150 m²



Tower System

- Abrasive cleaning
- Suction silo
- Blast unit (Big Clem)
- Suction unit

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+ *Precise and dependable*

+ *Easy to operate*

+ *Time efficient*

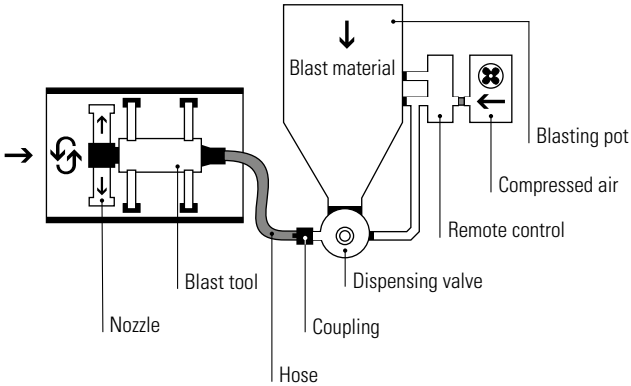
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Inner pipe blasting –

Optimal blasting in difficult-to-access areas

Pipe interiors are awkward to access, while demanding a high degree of surface cleanliness prior to coating. Clemco's pipe-blast tools combine total coverage of pipe interiors with precise and efficient performance. Clemco has devoted years to refining the technology of blasting and coating pipe interiors, and draws on this experience to deliver the highest- performing pipe tools available.

➕ **System components**



High standards in pipe blasting and coating call for high quality tools to do the job.

Pipes connect our world. Their applications are manifold: as transport piping in the energy sector, in the industrial sector, or as construction elements. Modern coatings protect pipes sustainably against corrosion, but exert high demands on the preparation of the substrate.

Clemco internal pipe blasting equipment quickly, effectively and reliably removes corrosion, dust and other residue from inaccessible areas inside piping. The operation is simple: a blast hose is fitted with a pipe tool, and the tool is withdrawn from one end of the pipe to the other. Clemco's proprietary blast technology applies an even, 360° blasting stream to the inner wall, leaving a consistent blast pattern ready for any coating.



Orbiter

- Internal coating of pipes with diameters from 90 to 950 mm
- Tungsten carbide paint tip
- Centering carriage



Control Gun

- Avoids paint dust inside the pipe
- Controls speed of the air motor
- Suitable for most airless spray pumps



Hollo Blast, Hollo Blast Junior

- Different units for diameters between 19 and 300 mm
- Centering carriage
- Suitable for every common media
- Compatible with standard blast pots



Spin Blast, Spin XL



Spin-Blast 200 - 915 mm

- Different versions for diameters between 200 and 1500 mm with corresponding centering
- Suitable for every common media



Spin XL 400 - 1500 mm



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+ Minimal dust emission

+ Portable and easy to use

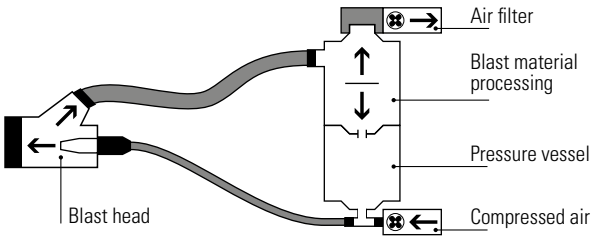
+ Minimal operator protection required

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***Dust control and wetblasting –
Containment and control for specialized
projects***

Clemco closed-circuit systems can be used to blast virtually anywhere. No elaborate containment or housing is needed. A closed-circuit blast system emits no abrasive particulate or dust and consumes a minimal amount of energy while maintaining the blast stream in a contained, safe pattern.

➤ **System components**



Clemco offers multiple solutions for open blasting with a minimum of dust production and environmental impact.

The closed-circuit and dust-control equipment from Clemco enables flexible blasting in many different outdoor and indoor locations, with minimal dust escape. Closed circuit equipment offers a closed-loop system that delivers abrasive to the surface while simultaneously recovering and reclaiming it and preventing dust egress. Different blast heads can be used to conform to different shapes and surface patterns, all while keeping the surrounding environment free of dust pollution.

- Environmentally protective closed loop system
- Cost savings through media reclamation
- No dust problems
- Simple operation
- Robust, reliable, durable systems
- Available as pressure and injector blast models

HSP-20 / HSP-200 P



- 18l blast pot and 18l silo / 40l blast pot and 40l Silo
- Integrated media recycling
- Vacuum cleaner/cartridge filter
- Mobile frame
- Working pressure up to 8 bar

Educt-O-Matic



- Handheld suction blast unit
- Integrated media recovery
- With dust bag or dust bucket

Wet Blast Flex



- 500l water tank and 140l blast pot
- Wet and dry blasting
- Mobile frame

Wetblast Heads and Nozzles



- Screens the abrasive dust with water



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