

CLEMCO

Contractor Series
Abrasive Blasting Systems



The Performance System

*Abrasive Blast
Machines
and Accessories
That
Deliver Productivity,
Safety, Performance
and Versatility*



**Exclusively
from Clemco**

Contractor
Blast Machines



Millennium
Remote Control
Valve



Quantum
Abrasive
Metering Valve



Apollo Helmets



Blast Suits



CPF Breathing
Air Filters



Cool Air Tubes
& Climate
Control Valves



Nozzles &
Nozzle Holders



Hoses &
Couplings



Spare Parts &
Consumables



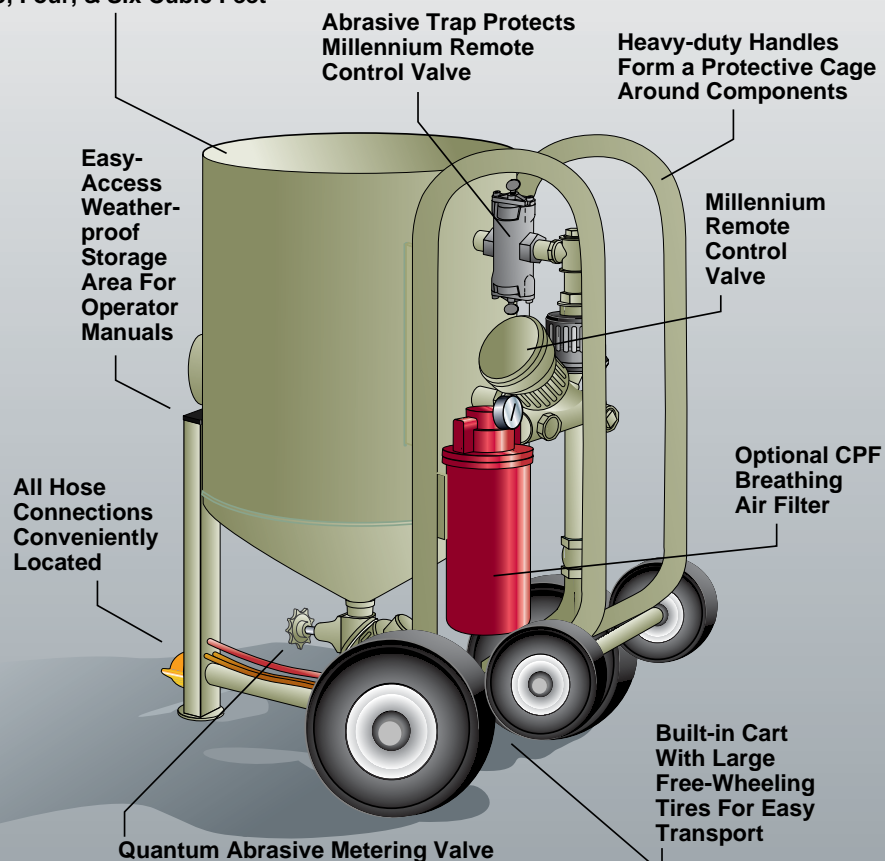
Literature &
Safety Books



CONTRACTOR SERIES

The Contractor Series concept represents Clemco's commitment to keeping you, the contractor, operating at peak efficiency. To that end, the Contractor Series product line includes nozzles, holders, couplings, and hoses selected specifically to complement the performance and durability of your Contractor Blast Machine — built to the highest quality standards.

**Contractor Series Blast Machine
Available in Capacities of
Two, Four, & Six Cubic Feet**



Ergonomically designed blast machine system

**Durability —
Designed
to Last,
Built to Last**

We manufacture your Contractor Blast Machine to stand up to years of field use.

The ASME-certified welders at Clemco's plant in Washington, MO. have an average of 10 years experience. Using computer-controlled equipment, these craftsmen lay down smooth, continuous welds along every seam, so the pressure vessel is durable and leak-proof.

Contractor Blast Machine Systems

Exclusively from Clemco Industries Corp.

Your Contractor Blast Machine comes mounted on an ergonomic cart made from heavy-duty steel tubing. This built-in cart makes it easy to move your blast machine — both at the blast site and onto and off your pickup or trailer.

The cart's handles form a cage that protects the components most likely to be damaged — remote control valves, piping and CPF breathing air filter.

On four-cubic-foot and six-cubic foot models, large rear tires and smaller front tires make moving your Contractor Blast Machine a breeze. The free wheeling tires roll easily over minor surface irregularities and the cart safely supports the weight to eliminate the strain on your back.

On the lighter two-cubic-foot model, two wheels are provided.

All are rated for 150 psi working pressure — that's 20-percent higher than most standard machines.

Use that extra pressure to safely increase your production rate. Your Contractor Blast Machine is ASME-certified, which is your assurance that the pressure vessel will stand up to years of high-production blasting.



The plate steel walls and the spun steel cone and head meet ASME standards.



Contractor Blast Machine Systems



The steel handles double as skids to allow you to pull the blast machine into the truck bed and leave it horizontal, resting on the handles, to reduce your truck's center of gravity.



The large hand hole is reinforced with a ring of 3/8 inch steel, cut to conform to the wall of the blast machine and welded inside and out, leaving fewer nooks and crannies where abrasive can collect.

Each and every Contractor Blast Machine is hydrostatically tested. After testing, each Contractor Blast Machine is stamped with a unique National Board Number.

An overhead monorail carries the Contractor Blast Machines into the blastroom, where the rust, mill scale, weld spatter and burrs are removed, then into the paint booth for a coat of oil-resistant and scratch-resistant paint.



Contractor Blast Machine Systems

During final assembly, our employees test each component — then double check the entire blast machine for leaks, remote control operation, and overall fit and function.



Clemco has been building blast machines for more than 50 years. The Contractor Blast Machines are the best yet.



Six-cubic-foot model Contractor Blast Machine.



Four-cubic-foot model Contractor Blast Machine.

Not just different ... better

Aside from the pressure vessel, everything else about your Contractor Blast Machine looks different from conventional machines. Our engineers started with a blank screen and a mandate to design a versatile system that is as productive as current technology allows.

Details make the difference. The diameter of the formed steel tubing was selected, not just for its structural properties, but for the way it fits comfortably in the average adult hand. This makes moving the cart easier and safer.

Hookup points for blast hose and remote controls are all mounted on the front leg, and a space is provided for your breathing air line, so you spend less time fumbling with connections and more time blasting.

Contractor Blast Machine Systems



Convenient hookup points for hoses.



Weather-tight storage bin in front leg to keep manuals.

Also in the front leg — a weather-tight storage bin for your owner's manuals, so your operating instructions, maintenance schedule, and replacement parts lists are always at your fingertips.

When your Contractor Blast Machine does need service, you will appreciate our engineers' other mandate — keep it simple. The unique, Millennium inlet/outlet remote control valve has just two moving parts and can be field serviced with standard tools. The companion Quantum metering valve, handles all conventional abrasive and is just as simple as the remote control valve.



Two-cubic-foot model Contractor Blast Machine.



Optional screen and cover keep out debris.



**Reliability —
Integrated
Remote
Controls and
Metering
Valves**

The Millennium and Quantum valves were designed, tested and refined simultaneously, so they operate at the same pressures and share common air fittings. There's nothing to adapt, no bushings to reduce, no orifice fittings to mismatch.

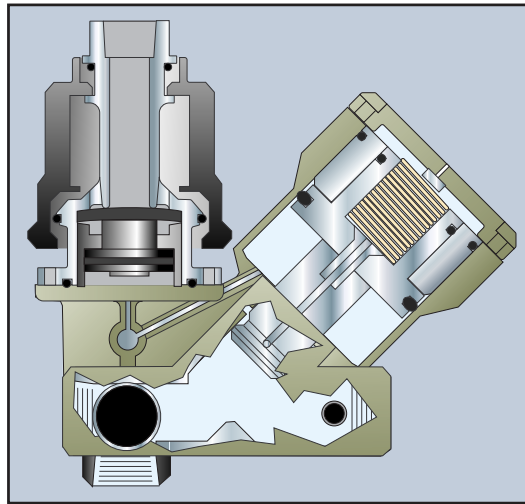
The Millennium and Quantum valves share a design philosophy. We design them to last and build them with precision. We incorporated die-cast housings and tough steel actuators.



Millennium Remote Control System

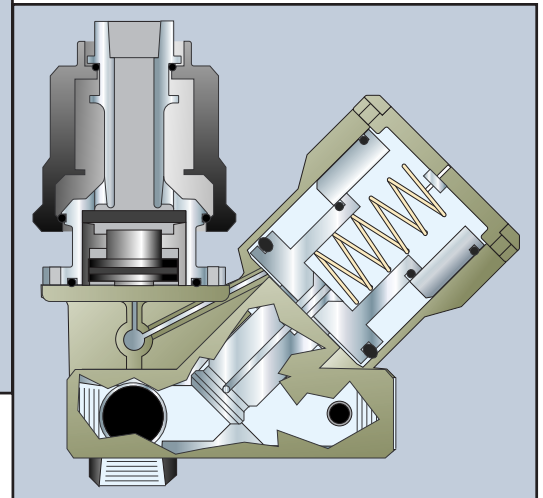
Reliable, integrated remote control valve and exhaust muffler

Shown here as a simple pressure-release system. Inlet and outlet functions are combined with the Millennium Remote Control Valve.



Millennium Remote Control Valve in closed position.

Millennium Remote Control Valve in open position.



All Contractor Blast Machines come with Clemco's exclusive Millennium pneumatic remote control valve, which combines inlet and outlet functions. It starts and stops faster, so you spend less time waiting, and more time blasting.

Pressing the remote control handle simultaneously actuates both the inlet and outlet portions of the valve. Some systems activate one valve then the other, which can slow response times.

For repetitive short-cycle blasting, order the Contractor Blast Machine configured for pressure-hold operation. It eliminates the delay between the time you actuate the remote control and blasting begins. Also, this system includes an abrasive cutoff switch for remote control actuation of the abrasive flow, which allows air-only blasting to dry surfaces after wetblasting.



The Millennium pneumatic remote control valve combines inlet and outlet functions.

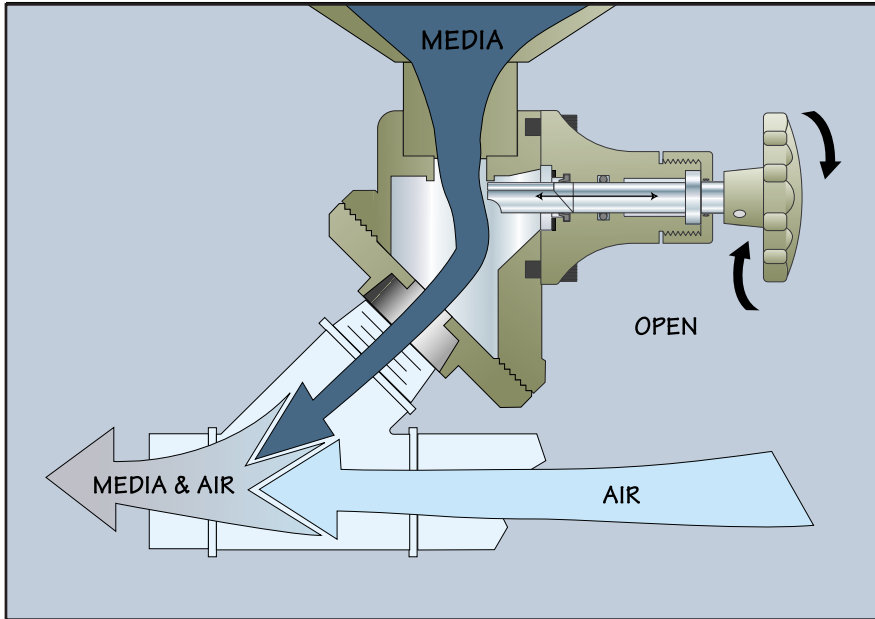


Optional electric remote controls

Quantum Metering Valve

**Quantum –
Engineered For
Lasting
Economy**

All parts normally
exposed to abrasive
flow are made
from durable,
wear-resistant
material. Even
the metering
adjustment
knob is
designed and
built to stand up
to real world use
and abuse.



Metering and valve actuation are separate functions in the Quantum. Precision screw control accurately meters all common blast media.

For Complete Control

The Quantum accurately meters all common blast media — from coarse steel grit to slag to fine glass bead. Just empty the blast machine, pour in the new media, and start blasting.

For contractors, the Quantum's flexibility reduces downtime between jobs that require different blast media. For rental outlets, owning Contractor Series systems makes every blast machine ready to roll out the door regardless of the application. Any common blasting media the customer chooses will be compatible.

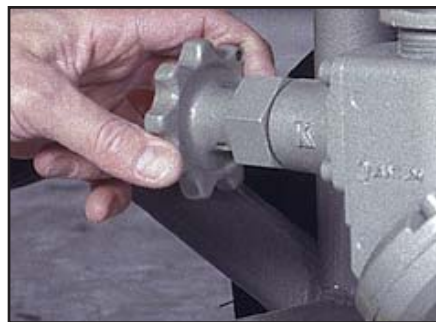
Metering and valve actuation are separate functions on the Quantum. In fact, the simple metering portion alone is all that's needed for most contractors with pressure-release applications.

Inside the Quantum, a hardened steel metering plate precisely controls the flow of abrasive. The contractor adjusts abrasive flow by turning the knob.

The metering plate, which receives most of the wear, can be replaced in the field in minutes using standard tools.

The remote control actuator section of the Quantum, which is included only on systems equipped for pressure-hold or remote abrasive cutoff, stops the flow of abrasive positively and instantly.

As with all the remote control valves on your Contractor Blast Machine, the Quantum's actuator has a built-in fail to safe feature that stops the flow of abrasive if the signal from the remote control handle is interrupted for any reason.



The Quantum Metering Valve features precision adjustment.



Operator Friendly

Clemco's safety equipment represents the culmination of more than 50 years of experience making abrasive blast equipment. The function, design, and construction of our safety equipment are direct results of input from professional blast operators and managers throughout the world.

Clemco equipment is NIOSH approved, assuring you and your blast operators of complete compliance with current OSHA regulations.

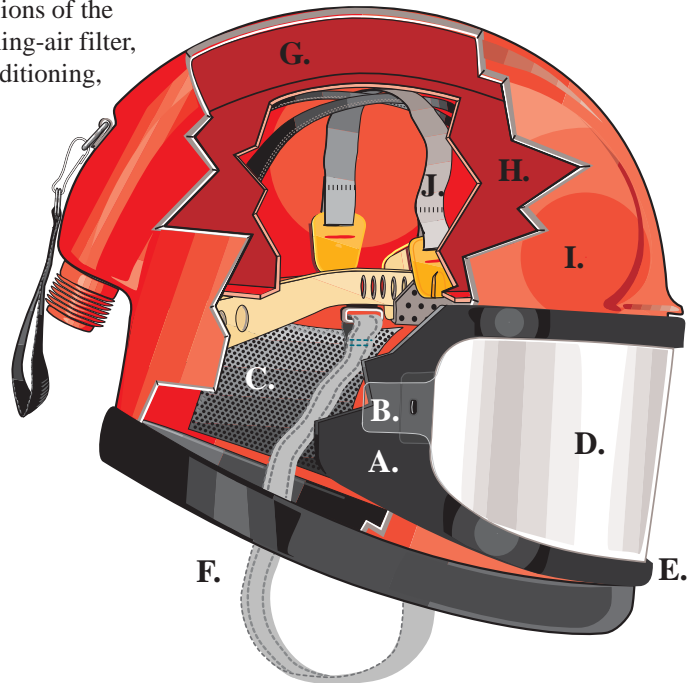


Contractor Series safety and comfort systems include two versions of the Apollo helmet, the CPF breathing-air filter, a variety of options for air conditioning, blast suit and leather gloves.

The Apollo 60 features double-shell construction that provides air circulation around the operator's head. Noise levels inside the helmet are kept low, thanks to Clemco's exclusive air distribution systems.

Budget-minded blast operators will prefer the new box front Apollo 20, which satisfies type CE requirements affordably.

The Apollo helmet is a positive pressure system where 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 operator's neck. The neck band on the Apollo 60 can be easily zippered from the full length cape for cleaning.



A. Hinge-mounted locking window frame facilitates easy loading of tear-off lenses

B. Tabbed outer tear-off acetate lenses ensure clear vision

C. Acoustical foam layers attached to helmet wall for additional sound reduction

D. Inner acetate lens precision fitted into an air-tight seal to prevent entry of dust and abrasive

E. Extra large sight window gives a full view of the blasting area

F. Built-in chin strap for stability

G. Unique air distribution chamber ensures an even flow of air throughout the helmet

H. Double-shell construction protects against common impacts

I. Bright color stands out in blast environment

J. Fully adjustable suspended head harness with sweatband for increased comfort



APOLLO 60



APOLLO 20



Climate Control and Cool Air Tube options for breathing air control

The Apollo 60 and Apollo 20 helmets are the industry standards for Type CE air-fed respirators.

Featuring Clemco's APF 1000-Rated Apollo Helmets

Contractor Blast Machine systems can be ordered with a built-in CPF breathing air filter so you never have to worry about leaving this important piece of safety equipment behind. The CPF traps moisture, oil, and dirt, so the air that reaches your respirator is clean and odor-free.

Every component of your filter cartridge is made from virgin material purchased from reputable suppliers. Your lungs are too important to trust to filters made from recycled filter elements.

No breathing air filter can provide complete protection. Carbon monoxide (CO), a deadly gas, can be produced by some air compressors.

The CMS-2 Carbon Monoxide Alarm detects CO and triggers an alarm at 10 ppm.

Clemco's Heavy Duty blast suit provides the best and most comfortable operator protection.

Clemco's Seasonal blast suit costs less and weighs less, yet offers ample protection for many applications. Perfect for rental and for non-blast personnel.



For added convenience, the CPF mounts on the Contractor Blast Machine.

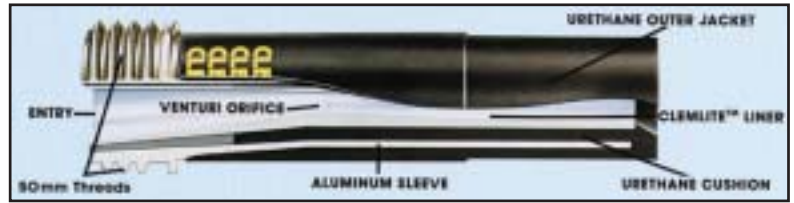


CMS-2 carbon monoxide alarm detects CO in compressed air supplies.

Nozzles, Hoses, Couplings & Holders

Contractor Series nozzles include Clemco's most popular silicon carbide and tungsten carbide models, with contractor threads or flange mount.

The large-entry nozzles and large-diameter blast hose deliver restriction-free flow of air and abrasive from the blast machine to the nozzle.



Since introducing the venturi nozzle over forty years ago, Clemco has continued to refine its basic design. The Contractor Nozzle features wide, deep-pitched threads to prevent galling by trapped dust, dirt and abrasive particles and provide more “meat” to firmly hold the nozzle.



These nozzles offer a choice of metal, or urethane, or rubber jackets.

Supa blast hose out-sells all other blast hose. Its popularity is due to its ultra-light weight and unsurpassed flexibility. Supa blast hose is manufactured to Clemco's exacting specifications.



There are scores of nozzles to choose from in the Contractor Series product line.



Order Supa Hose or 2-braid Blast Hose in 25- or 50-foot lengths with inside diameters of 1 or 1-1/4 inches. 4-ply is available in same lengths with the additional option of 1-1/2-inch inside diameter.

Nozzles, Hoses, Couplings & Holders

We've also made our most popular couplings and holders available as part of the Contractor Series product line. They include the nylon couplings for hose-to-hose connections, and the nylon threaded quick couplings to fit the blast machine outlet.

All our nylon couplings include Clemco's unique spring lock pins for built-in safety. Our fiber-reinforced nylon will not crack or shatter. A coupling made from it can pop back to its original shape after being crushed by a car or light truck tire.

Clemco nozzle holders, made from the same high-impact nylon, accept all Contractor-threaded nozzles. The large thread pattern eliminates binding, so you can remove and replace nozzles quickly and resume blasting.



The Contractor Series selection includes the nylon couplings for hose-to-hose connections, and the nylon threaded quick couplings to fit the blast machine outlet.



Nylon couplings include Clemco's unique spring lock pins for built-in safety.



The large thread pattern on the Contractor nozzles eliminates binding and makes changing nozzles quick and easy.



Quality Spares & Consumables

We manufacture Clemco spare parts to meet the tolerances and material compositions specified by the engineers who designed the equipment.

Our engineers select materials to deliver maximum performance, productivity, and safety. Imitation spare parts can approximate the look of genuine Clemco spares, but their makers can only guess at the exact specifications.

When they guess wrong, you pay — in lost production, in down time, and in increased risk of accidents and injuries.

Using imitation parts for critical blast machine components or for any respirator component risks product failure, voids the manufacturer's warranty, violates OSHA rules, and increases your liability in the event of accident or injury.



Use Genuine Clemco Replacement Parts

By their very nature, blast machines require a steady supply of high-quality spare parts. High pressures, high-speed abrasives, and rough handling in the field all conspire to wear out your blast machine.

We know you can buy low-cost counterfeit parts, but we know too the value, high performance, and durability you expect. We manufacture the highest quality parts and accessories and back them with a worldwide network of Distributors. We are committed to your satisfaction.

Profitable contractors know the value of this reliable source of parts, service, and advice. They also know the risks — to safety, production loss, equipment damage, and voided warranties posed by knock-off parts. Using Clemco parts for your Contractor Series equipment actually costs less because they last longer, protect your safety and health, and deliver the maximum performance you demand.



Literature, Manuals and Technical Support

Clemco offers free factory training for every Distributor.

For the contractor, Clemco offers detailed operating and maintenance instructions with each product we sell. To help you get the most from your new equipment, every Contractor Blast Machine comes with a copy of "Blast Off 2". This informative booklet helps you learn the basics of blast cleaning — applications, equipment set-up, safety precautions, and general maintenance procedures. Clemco's worldwide network includes numerous distributors and dealers, rental outlets, and six District Representatives.

If you have a question not covered by your owner's manual that your Distributor can't answer — your Distributor can call Clemco or the Sales Representative for answers. They can handle most troubleshooting procedures over the telephone in just a few minutes.

WARNING

Safety equipment for abrasive blasting must conform to rigid standards and be certified for NIOSH approval. Using any replacement parts, other than those specified by the manufacturer, voids any NIOSH approval and exposes the blast operator to increased risk of injury and death.



Supporting the Blasting Industry

Clemco is committed to safe, high-production blast cleaning as the most cost-effective method for removing contaminants and preparing all types of surfaces for coatings.

For more than 40 years, Clemco has produced books and materials used by contractors to train themselves and their employees. And, Clemco developed an Abrasive Blast Cleaning course for SSPC, the Society for Protective Coatings.

Clemco Sales Representatives support local Distributors and offer technical and application related consulting.

For the name of the authorized Clemco Distributor near you, call (636) 239-0300.

To receive your copy of the Clemco UPDATE newsletter, send us your name, company name, email and mailing addresses.

By FAX: (800) 726-7559

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Washington MO 63090

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www.clemcoindustries.com

**Contractor Series:
Productivity,
Safety, and
Versatility**

The Clemco Advantage

Clemco has manufactured high-quality abrasive blast cleaning equipment for more than 50 years. The Contractor Series represents the future of portable abrasive blast cleaning — products designed and built to withstand the rigors of field use, yet packed with the features that make them safe, easy to operate, and easy to maintain.

Clemco is proud of its reputation for innovative products and services. Your use of Clemco's products makes that innovation possible. Thank you.

All of our products are available exclusively through any of our distributors and dealers in the U.S. and Canada. Clemco International supports a worldwide network of subsidiaries, licensees, and distributors producing abrasive blast equipment to meet the needs of contractors around the world.



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CLEMCO®
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Clemco is committed to continuous improvement. Product availability and specifications are subject to change without notice. Consult equipment owner's manual for specifications.

ISO 9001-2000 Certified