

# CLEMCO®



## **Educt-o-Matic**

Hand  
Portable  
Suction  
Blast  
Tool

## **Comet**

Portable  
Suction  
Blast  
Tool

## **Super Comet**

Portable  
Pressure  
Blast  
Tool

# Small Closed-Circuit Abrasive Blast Equipment



**CLEMCO®**  
INDUSTRIES CORP.  
The Performance System

# Sturdy, Flexible Blast and Recovery Systems

## *Perfect for*

- *Welding operations*
- *On-site glass & stone etching*
- *Small paint stripping jobs*
- *Touch-up work after big jobs*
- *Ships and offshore platforms*
- *Farms and machine shops*
- *Rental outlets*



*Educt-O-Matic with flat-lip attachment for smooth surfaces.*



*Optional Educt-O-Matic attachments.*

**C**losed-circuit blasting improves the strength and appearance of any weld by removing corrosion and impurities from surfaces before welding and cleaning spatter after welding.

These tools use compressed air and recyclable abrasive to quickly clean and etch metal, masonry, glass, and other durable surfaces.

Because these specialized systems automatically recover and recycle the abrasive, they do not expose the operator, or others in the area, to significant levels of dust and abrasive and do not contaminate surrounding areas.

You select the abrasive size, abrasive flow rate, and blast pressure to create intricate works of art or just make fast work of a rusted fender.

Consult your Clemco distributor for appropriate selection. Do not use silica sand or any abrasive that contains more than one percent free silica for abrasive blasting.

By automatically recycling the abrasive, a closed-circuit blast system lets you blast for extended periods without stopping to refill.

These continuous automatic recycling systems reduce the amount of abrasive to buy, eliminate sweeping and shoveling, and minimize abrasive disposal costs.

Closed-circuit blasting does not interfere with painting or other work in progress. It contains the abrasive and dust to keep them from contaminating other areas of the work site.



*Specialized brushes allow the Comet to clean inside angles, outside angles, smooth, and uneven surfaces.*



*Super Comet with inside angle brush cleans a path 1-inch wide up to 72 inches per minute.*



# Simple, Reliable Blast and Recovery Systems

## Educt-O-Matic



Educt-O-Matic with angle attachment for inside corners.

Clemco's smallest closed-circuit tool, the hand-portable Educt-O-Matic goes anywhere and operates on just 90 cfm of air at 90 psi.

The operator controls blasting and recovery with a trigger handle. Pulling the trigger just slightly starts the vacuum recovery. Pulling the trigger all the way starts the suction blast system.

The compact conical hopper contains the abrasive and meters it into the

blast system. Air rushing through the Educt-O-Matic's mixing chamber draws the abrasive into the airstream and propels it out the nozzle.

The blast head swivels to allow blasting at any angle and the rubber boot traps the dust and abrasive. The vacuum captures the reusable abrasive particles and sends the dust and broken abrasive to the dust bag.

The Educt-O-Matic cleans an area about one

inch wide. After blasting, the operator releases the trigger about halfway to stop blasting, but continues vacuuming for two or three seconds to recover any remaining dust and abrasive. Fully releasing the trigger stops the vacuum system.

The Educt-O-Matic is designed for use with steel and iron grit. The simple cotton bag traps dust.

## Comet



The Comet packs the power of an industrial suction blast, recovery, and reclaim system into a package not much larger than a shop vac.

The wheel-mounted Comet includes its own pressure regulator, pressure gauge, and moisture separator. The 100-cfm media reclaimer operates on household current – 115v, 1 Ph, 60 Hz. The dust collector houses 14 cotton sateen tubular filters.

With 20 feet of recovery hose, the Comet lets the operator move

unencumbered about the work site. The operator turns on the electric power to begin vacuum recovery, then starts and stops blasting with an in-line switch at the blast head.

A flexible non-marring brush on the blast head contains the dust and abrasive, and glides smoothly across most surfaces. Specialized brushes allow the Comet to clean inside angles, outside angles, and uneven surfaces. A compartment atop the Comet stores extra brushes and other accessories.

The Comet uses 47 cfm of air at 80 psi, and cleans a path about 1-inch wide, at up to 36 inches per minute. It works best with fine mesh glass bead or aluminum oxide.

Aggressive media such as aluminum oxide, silicon carbide, and garnet subject the components to rapid wear; order optional boron nozzles and tube inserts when using these media. The Comet is not designed to handle sand, slag, or metallic media such as steel grit.

## Super Comet



The dust collector houses 12 cotton sateen filter tubes.

The Super Comet pressure-blast system delivers an enclosed high-velocity stream of abrasive to the surface being cleaned. The closed-circuit blast head features a 3/16-inch nozzle and multiple brushes for cleaning inside and outside angles, and uneven surfaces. It cleans a path about 1-inch wide up to 72 inches per minute, consuming 45 cfm when the nozzle is new and up to 70 cfm when worn, at 80 psi.

The system's portable cart moves easily on

smooth, level surfaces. A 20-ft recovery hose lets the operator reach most surfaces with ease. The standard unit features a tungsten carbide nozzle and 1/2-cubic foot, ASME-code blast machine with adjustable metering valve. The system handles most common, non-metallic, recyclable, 60- to 280-mesh blast media. Aggressive media, such as aluminum oxide, silicon carbide, and garnet, subject the system to rapid wear; order optional boron nozzles and tube inserts when using these

media. The Super Comet is not designed to handle sand, slag, or metallic media such as steel grit.

The built-in storage hopper holds recovered media to automatically refill the machine when the operator pauses and releases the control handle. And the system includes an air filter/moisture separator, pressure regulator, and gauge. The integral dust collector houses cotton sateen tubes to trap dust and fines, and drop them into a convenient slide-out tray for easy disposal.

# Specifications

	<b>Educt-O-Matic</b> Hand Portable Closed-Circuit Suction Blast Tool Stock No. 00751	<b>Comet</b> Portable Closed-Circuit Suction Blast Tool Stock No. 12542	<b>Super Comet</b> Portable Closed-Circuit Pressure Blast Tool Stock No. 12546
<b>Blast System</b>	Suction Blast 1-1/2 cups capacity	Suction Blast 5 lb full charge capacity	Pressure Blast ASME-code Vessel 1/2 cu ft capacity
<b>Suggested Blast Media</b>	Steel and iron grit 40 to 100 mesh	Recyclable, non-metallic media: glass bead 6-13 mesh or alox 60-280 mesh. With aggressive media, use a boron carbide nozzle (11936) & tube insert (12409). Not for use with steel, sand, or slag media.	Recyclable, non-metallic media: glass bead 6-13 mesh or alox 60-280 mesh. With aggressive media, use a boron carbide nozzle (21091) & tube insert (12409). Not for use with steel, sand, or slag media.
<b>Closed-circuit Blast Head</b>	Rubber containment with 3/8-inch suction blast nozzle and 3/16-inch suction jet	Rubber and Brush contain- ment with 3/8-inch suction blast nozzle and 3/16-inch air jet	Rubber and Brush containment with 3/16-inch pressure blast nozzle
<b>Media Reclaimer</b>	Internal, via eduction	100 cfm cyclone	100 cfm cyclone
<b>Dust Collection</b>	1 Dust bag	14 ea 11506 dust bag	12 ea 11506 dust bag
<b>Construction</b>	Steel and aluminum body	16-gauge steel, mounted on frame with two 6-inch wheels and two legs	12-gauge steel, mounted on frame with four 4-inch casters
<b>Power Requirements Electrical Air Consumption</b>	No electric required 90 cfm @ 90 psi	115/1/60 47 cfm @ 80 psi	115/1/60 38 cfm @ 80 psi w/#3 nozzle
<b>Dimensions</b>	26" h x 12" w x 11" d	36" h x 22" w x 32" d	68" h x 24" w x 51" d
<b>Shipping Weight</b>	12 lbs (1 cardboard carton)	235 lbs (Shrink-wrapped on pallet)	850 lbs (Shrink-wrapped on pallet)

Note: For safe, efficient blasting, read and follow the owner's manual and seek training for everyone who will use this equipment.

*Authorized Distributor:*

ISO 9001:2008 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.

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