

# BIG CLEM

## Bulk Abrasive Blast Machines



- ◆ **Safety**
- ◆ **Reliable Performance**
- ◆ **High Productivity**

Clemco Big Clem multi-outlet, bulk abrasive blast machines are rugged, reliable, and efficient. Designed for large jobs, where multiple blast operators are needed, the Big Clem offers the convenience of a large supply of abrasive, loaded at one time, ensuring more blast on-time, and saving the time and labor of refilling smaller machines.

Big Clems are available in three standard sizes: 60, 120, and 160 cubic feet abrasive capacity, and depending upon the model, have an option for up to four blast operators. Units are rated 150-psi working pressure. Each model is available as stationary, yard towable, or highway towable to suit the application.

Each operator station is fitted with Auto-Quantum (pneumatic or optional electric) pressure-hold remote controls, which allow each operator to start and stop independent of the others. The Quantum is an all-media valve, making it possible to switch between expendable mineral or slag abrasives to steel grit as necessary. Pneumatic remote controls are suitable when the blast hose is 100 feet or shorter; beyond 100 feet electric remotes are recommended to minimize the response time at the nozzle for beginning or stopping blasting.



120 cuft highway towable model shown with optional electric remotes and optional 4 outlets

### Standard Features:

- ◆ Automatic pop-up filling valve, with debris screen, and swing-open rain cap—the safest option on the market—eliminates the potential for injury possible on units with camlock closures.
- ◆ 150 psi working pressure; 1-1/4" piping.
- ◆ 2 outlets, pneumatic pressure-hold remote controls.
- ◆ Abrasive cut-off feature on the remote controls allows work surface blow-off.
- ◆ Fail-to-safe, normally-closed, all-media Auto-Quantum abrasive metering valve that is easy to operate and requires little maintenance.
- ◆ Flexible pusher lines and ball valves simplify air valve and metering valve maintenance.
- ◆ Union-type media shut-off valves allow servicing individual metering valves leaving others operational. Generous clearance below vessel provides accessibility for valve maintenance.
- ◆ Large 12-inch x 16-inch man-way permits access to pressure vessel chamber for maintenance service.
- ◆ Ladder allows easy access to pop-up valve for machine filling.
- ◆ Vertically-adjustable bolt-on hitch.

- ◆ Hose support bracket allows convenient blast hose storage.

- ◆ Lifting eyes mounted on the vessel ease transport.

- ◆ Large, built-in 1600 CFM moisture separator/manifold helps to reduce moisture, a naturally-occurring by-product of compressed air. Supports up to four No. 8 nozzles.

- ◆ Three standard configurations:

  - Stationary models for fixed installation are ideal for industrial applications.

  - Yard-towable models offer increased flexibility for moving the unit on site; and

  - Highway-towable models are the most versatile offering the convenience of towing the machine to the job site.

### Options:

- ◆ 1-1/2" piping: suggested for No. 8 nozzles and required for No. 10 and No. 12 nozzles.

- ◆ Electric remotes: includes weather-proof control panel and anti-freeze injector capability.

- ◆ Operator stations: two are standard; options for up to four on 120 and 160 cuft models.

- ◆ Full-load lifting eyes for 160 cuft model.

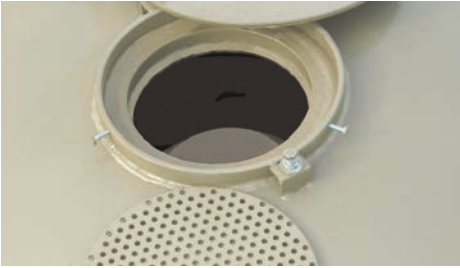
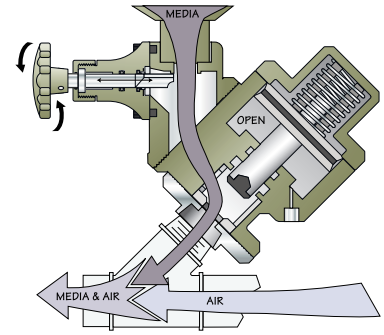
- ◆ Super-sack abrasive rack.

Two outlets are standard on all Big Clems.  
Photos show unit with *optional* 4 outlets.



### Auto-Quantum Metering Valve

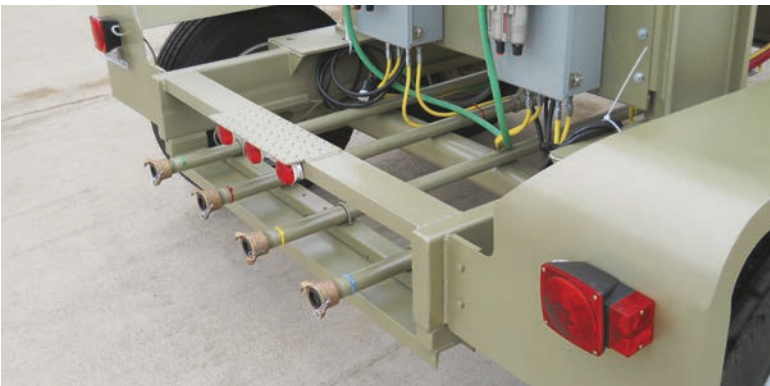
- ◆ Unrestricted abrasive flow through metering valve.
- ◆ Metering takes place upstream—not at the plunger—eliminating direct exposure to media. Does not require urethane or tungsten inserts.



- ◆ Normally-closed design requires compressed air to open.
- ◆ 45-degree abrasive feed assures constant, uniform abrasive flow.

### Big Clems are Safe, Reliable and Efficient

- ◆ Automatic pop-up valve eases refill and cannot be opened while machine is under pressure.
- ◆ 2:1 semi-elliptical head provides more abrasive storage for maximum abrasive capacity.
- ◆ Integral moisture separator and air manifold designed to eliminate restrictions that cause air-flow loss, while providing equal, moisture-free air to each operator.



### Durable Transport System

- ◆ Big Clem torsion spring suspension provides strength beyond load capacity.
- ◆ Towable models feature rugged trailer assembly for negotiating rough terrain. Wheels and tires rated for easily handling load at highway speed.
- ◆ Highway models equipped with four-wheel electric brakes, emergency breakaway switch, and high-visibility tail lights, brake lights, and turn signals.

Description (2 outlets standard)	Stationary Stock No.	Yard Portable Stock No.	Highway Towable Stock No.
<b>60 cuft</b> (3 ton cap., 48" dia.)			
w/pneu. remotes	25813	25814	25815
w/12V elec. remotes	27398	27399	27400
<b>Weight</b>	2,200 lbs.	3,400 lbs.	3,800 lbs.
<b>120 cuft</b> (6 ton cap., 60" dia.)			
w/pneu. remotes	25746	25745	25744
w/12V elec. remotes	24626	24627	24625
<b>Weight</b>	3,200 lbs.	4,400 lbs.	4,900 lbs.
<b>160 cuft</b> (8 ton cap., 72" dia.)			
w/pneu. remotes	25743	25742	25741
w/12V elec. remotes	24623	24624	25802
<b>Weight</b>	4,200 lbs.	5,700 lbs.	6,200 lbs.

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