

Product Catalog

WITH YOU TO THE FINISH!TM

KLEEN BLAST[®]

ABRASIVES • EQUIPMENT
RENTALS & SPARE PARTS

INSIDE:

***You'll Find Our In-Stock
Abrasives, Surface Preparation,
and Coating Equipment***

If You Can't Find It..

CALL US - WE CAN

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WWW.KLEENBLAST.COM



Strip Like a Pro

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About Kleen Blast



WITH YOU TO THE FINISH!

**Same Name,
Same Company
for Over
Half a Century**

**For All Your
Abrasive,
Spare Parts &
Blast Equipment
Needs**

Your All-In-One Source for Procurement & Spent Media Recycling

From Abrasives and Nozzles to Materials Delivery and Spent Abrasive recycling, Kleen Blast provides the best products & services – without compromise.

Company-owned warehouses throughout the west, plus experienced employees means you get the best abrasives, spare parts and equipment on time and on budget.

For SERVICE / PARTS / ABRASIVES and ABRASIVES RECYCLING Call

Northern CA
30028 Industrial Pkwy. S.W.
Hayward, CA 94544
800-227-1134

Southern CA / LA
9871 8th St.
Rancho Cucamonga, CA 91730
909-941-4078

Southern CA / San Diego
676-B Moss Street
Chula Vista, CA 91911
619-427-4711

Portland, OR
3747 North Suttle Rd.
Portland, OR 97217
800-634-8499

Tacoma, WA
1448 St. Paul Avenue
Tacoma, WA 98421
800-228-4786

**www.kleenblast.com
www.kleenindustrialservices.com**





Want Dust Free Removal of Paint from Weldments and Joints?

**KBV-86A
Blast & Vac
System**

**SPECIAL
\$3,995⁰⁰**
While They Last

The KBV Model 86A Blast & Vac System Is The Answer

Includes:

- One Source Hook Up
- Portable 0.9cu ft Pressure Vessel w/pipe string
- 3/4" Pressure Regulator
- 25' x 1/2" Blast Hose Assy
- Vacuum Head w/ 1/4" Nozzle
- 25' Twin Line w/ Compact Control Handle
- 25' x 2" ID Vac Hose
- Pneumatic Driven Vacuum Assy. w/30 gal drum

Options:

- Hepa Filter
- Vacuum Silencer

No air permit required in most locations.

***With equipment that is
compact, easy to assemble,
and fits on a scaffold
or manlift basket***

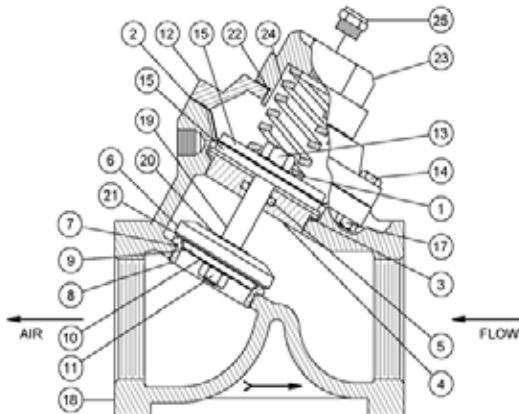


KBV-86M Blast & Vac Machines

Automatic Air Valve (Normally Closed)

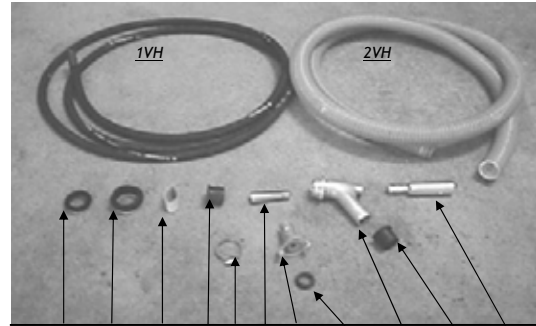
No.	Part No.	Description	No.	Part No.	Description
1.	2123-006-01	Gasket	13.*	2123-006-13	Hex Nut (w/Loctite)
2.*	2123-006-02	Diaphragm	14.	2123-006-14	Cap Screw
3.*	2123-006-03	O-ring	15.	2123-006-15	Diaphragm Plate
4.	2123-006-04	Retainer Bushing	17.	2123-006-17	Lock Nut
5.*	2123-006-05	O-ring	18.	2123-006-18	Body, 1"
6.	2123-006-06	Disk Retainer	19.	2123-006-19	Shaft
7.*	2123-006-07	O-ring	20.*	2123-006-20	Gasket
8.	2123-006-08	Seat	21.*	2123-006-21	Disc
9.	2123-006-09	Disc Plate	22.	2123-006-22	O-ring
10.	"Deleted"	Lock Washer, Internal	23.	2123-006-23	Spring Retainer
11.*	2123-006-11	Lock Nut	24.	2123-006-24	Spring
12.	2123-006-12	Cap	25.	2014-300	Vent, 1/8" (not included)

* Included in Replacement Part Kit



NOTE: With spring closed valve air flow is in opposite direction from arrow on valve body.

Blast Hose Vacuum Head Assembly



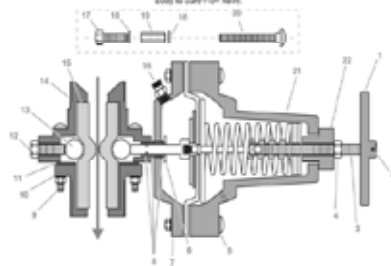
Part No.	Description	Part No.	Description
1VH	VP908001	25x 1/2" Blast Hose	
2VH	KUUV1-200	2"x 25' Vacuum Hose	
3VH	VP912000	Brush-Inner 1/2" Bristles	
4VH	VP912005	Brush-Outer 1" Bristles	
5VH	VP934500	Rubber Band Holder	
6VH	VP965602	Inner Gasket	
7VH	GR2W405	2" Hose Clamp (10PK)	
8VH	VP248000	Inner Cone	
9VH	VP219000	1/2" CO Coupling	
10VH	00850	1/2" CO Gasket (10 PK)	
11VH	VP248300	Vacuum Head	
12VH	VP965602	Outer Gasket	
13VH	VP245840	#4 Blast Nozzle	

PART #	DESCRIPTION
VP243001	Vacuum Head Complete w/ 3/16" Nozzle
VP243060	Vacuum Head Complete w/ 1/4" Nozzle
VP912002	Outer Corner Brush
VP248725	Outer Corner Brush Retainer
VP912200	Inner Corner Brush

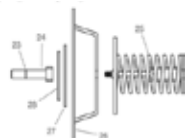
Auto Sure-Fllo Part #: 290215

Standard with Fichtler systems. Optional with other Pro-Flow® systems.

Note: These features are used two places to mount diaphragm body to Sure-Fllo valve.



Spring & Diaphragm Detail



Item	Description	PART #
1	Handle assembly, 1/2" - 13, Auto Sure-Fllo (after 5/84)	290217
2	Handle assembly, 1/2" - 14 x 4" (before 5/84)	290211
3	Set screws, 1/4" - 13 x 1/4", nylon	501750
4	Shaft handle	505802
5	Jam nut, 1/4" - 13	505817
6	Carriage bolt, 1/4" - 16 x 2 1/2"	505802
7	Lock washer, 1/4" ID	505762
8	Hex nut, 1/4" - 16	505840
9	Plunger guide	703402
10	Diaphragm cover	703112
11	O-ring kit (includes 2 for guide, 1 for plunger)	501402
12	Carriage bolt, 1/4" - 16 x 2 1/2"	505802
13	Lock washer, 1/4" ID	505762
14	Hex nut, 1/4" - 16	505840
15	Flange, 1" MPF	703200
16	Water stop flange	703002
17	Screws, 8 - 32 x 1/2" (2 per assembly)	501902
18	Ball, 1/4" - 14 x 1/4"	505702
19	Pinch roller (2 per assembly)	703402
20	Wave break, 2" MPF	703002
21	* Motor tube, 1/2" (See page 488 for choices)	505902
22	Reducer, 1" MPF x 1/2" size	501001
23	Ball, 1/4" - 16 x 1/4" (Auto Sure-Fllo)	505802
24	Lock washer, 1/4" ID	505762
25	Nut extension, 1/4" - 16 (2, Auto Sure-Fllo)	505802
26	Carriage bolt, 1/4" - 16 x 2 1/2"	505802
27	Spring extension	505802

Item	Description	PART #
28	O-ring kit (includes 2 for guide, 1 for plunger)	501402
29	Plunger with O-ring	505817
30	Spring assembly	505802
31	Diaphragm, steel (after 5/84)	505817
32	Diaphragm, flat (before 5/84)	505802
33	Diaphragm gasket	505802
34	Washer, 1/4" ID	505802

* Recommended spare part - Consumable wear item
† Essential component to prevent downtime

#	Part Number	Description
1	8020-010-01	0.09cu. Ft. Abrasive Blaster Pressure Vessel
2	3029-005-11	Nipple TBE, 3/4" x 3" Lg.
3	2100-001	Pop-Up Gasket, 1 Bag
4	8020-000-06	Pop-Up w/Eyebolt
5	7046-002	Wheel & Tire, 1 Bag
6	7019-519	Nylock Nut, 3/4" UNC
7	4040-003	Axle, 1 Bag
8	3029-104-99	Nipple TBE, 1/2" x Close
9	3010-005-04	90 Reducing Elbow, 3/4" x 1/2"
10	3029-005-99	Nipple TBE, 3/4" x Close
11	3024-005	Union, 3/4"
12	3011-005	Tee 3/4"
13	3038-005-02	Reducing Tee, 3/4" Run x 1/4"
14	2401-505	Ball Valve, 3/4" FP 4" Ubold closure
15	4028-105	Crowfoot, 3/4" MNPT 2-Lug
16	2123-105	Automatic Air Valve, 3/4" N.C.
17	3030-005-27	Nipple TOE, 3/4" x 18" Lg.
18	3057-005	90 compression Elbow, 3/4"
19	3030-005-17	Nipple TOE, 3/4" x 8" Lg.
20	3038-005-03	Reducing Tee, 3/4" Run x 3/8"
21	3026-007-05	Bushing 1 1/4" x 3/4"
22	4214-101-01	Blast Hose Coupling 1 1/4" w/ Gasket
23	3036-103-99	Nipple TBE, Sch. 80 3/8" x Clos Galv
24	290215	Auto Sure Fllo
25	3036-103-11	Nipple TBE, Sch. 80 3/8" x 3" Lg. Galv
26	3026-007-03	Bushing 1 1/4" x 3/8"
27	4203-500-00	90 Swivel, 1/2" Mx 1/8" F
28	4200-302-00	Push-On Hose Insert, 1/4" x 1/8"
29	4101-002	Push-On Hose 1/4"
30	4200-302-02	Push-On Hose 1/4" x 1/4"
31	3031-302-00	Hex Nipple 1/4" x 1/8"
32	3011-102	Tee, 1/4" x 1/8"
33	4203-502-02	90 Swivel, 1/4" Mx 1/4" F
34	3031-302-02	Hex Nipple 1/4" x 1/4" w. Ball Seat
35	4224-300-02	Quick Connect Male 1/4"
36	4224-301-02	Quick Connect Female 1/4"
37	3031-312-02	Hex Nipple, 1/4" x 1/4"
38	3026-502-00	Bushing, 1/4" x 1/8" Plated
39	4100-301	Twinline Hose Assembly, 3/16" x 25"
40	2263-000	Deadman, Pneumatic
41	3006-104	90 Street Elbow, 1/2" Galv.
42	3029-104-09	Nipple TBE, 1/2" x 2" Lg. Galv.
43	2401-504	Ball Valve, 1.2" FP
44	7031-047	Decal "Noise Hazard"
45	7031-007	Decal "Warning Depressurize"

Blast Cabinets



KB-36 Pro Stripper Cabinet

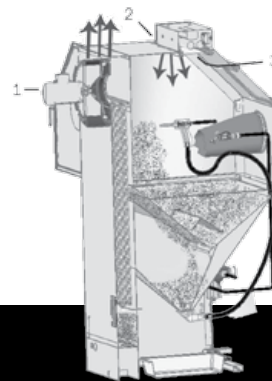
Blasting Chamber Area	Electrical Req.	Transportation Dimensions
Width: 35.5" Depth: 29.5" Height: 27.6"	115 volt 60Hertz 20 Amperes Standard grounded plug	Width: 39.4" Depth: 33.5" Height: 67" Weight: 350 lbs.

Filter Area: 34 sq. ft.

No air permit required in most locations.

ADVANTAGES OF THE NEW KB-36

- **GREAT VISIBILITY**
Exhaust fan at the end of the circuit is out of the abrasive path resulting in no wear.
Protected, bright flourescent lighting.
- **FAST SETUP**
Simple plug-in electrical and air hook ups
Vacuum hose for area clean up
- **GREAT VALUE TO OWN AND MAINTAIN**
Efficient and adjustable separation allows use of all types of abrasive.
Built-In Filter System and adjustable exhaust power for each type of mesh size.
No dust bags, no mess. Filter is cleaned inside a closed environment.
No cyclone to wear out



ALLOWS YOU TO

Strip Like a Pro

BLAST MOST SUBSTRATES

- Steel / Stainless
- Aluminum
- Brass, Glass, Stone

USES ALL TYPES OF MEDIA

- Steel shot, steel grit, aluminum oxide, walnut shell
- Crushed glass, silicon carbide, and glass beads

**Buy Your Blast Media from Us
 and You May Qualify for
 1 Year of Free
 Spent Media Recycling**



Blast Cabinets

Commonly Purchased Parts
Call Kleen Blast: 1800.227.1134

PARTS LIST

Item #	Description
CMV01910	GS CABINET GLOVES (LEFT)
CMV01911	GS CABINET GLOVES (RIGHT)
CMV02567	GS AIRJET 2.5mm
CMV07554	GS AIRJET 3.2mm
CMV02574	GS AIRJET 4.0mm
CMV02578	GS AIRJET 4.8mm
CMV03746	GS GUN
CMV04133	GS DUST COLLECTOR FILTER ASSY
CMV05698	GS AIR INLET FILTER
CMV07473	GS CABINET BLAST HOSE
CMV07905	GS BLAST NOZZLE RG 6.3 mm (Use 2.5 mm Jet)
CMV07906	GS BLAST NOZZLE RG 8.0 mm (Use 3.2 mm Jet)
CMV07907	GS BLAST NOZZLE RG 9.5 mm (Use 4.0 mm Jet)
CMV07908	GS BLAST NOZZLE RG 12.7 mm (Use 4.8 mm Jet)



Nozzle Set	CFM Needed @ 80 PSI	Minimum Compressor Horsepower
6.3 mm / 2.5 mm jet	21	5
8.0 mm / 3.2 mm jet	25	7
9.5 mm / 4.0 mm jet	40	10
12.7 mm / 4.8 mm jet	47	12



Pulsar

Pulsar III & Pulsar VI Suction Cabinets

- *Continuous reclamation and high-production blasting.*
- *Simple media metering system allows precise adjustment.*
- *Exclusive BNP Blast Gun sets the industry standard for performance and durability.*
- *Number 5 Gun and ceramic nozzle standard.*
- *Easy access to reclaimer door for adding fresh media, and to dust drum for dust removal.*
- *Efficient 1/2-inch air filter traps oil and water that can ruin blast media and contaminate cleaned parts.*
- *Pulsar VI features flanged mounting on reclaimer that can accept suction or pressure blast system.*



BNP Gun

The ZERO BNP gun sets the industry's standard for delivering the most cleaning power. The comfortable pistol-grip design reduces operator fatigue and increases productivity during prolonged blasting.

Optional tungsten carbide and boron carbide nozzles easily handle aggressive media.

Convertible

Pulsar cabinets are built with flexibility in mind. When your production needs change, your Pulsar VI can be converted from suction blast to pressure blast.



Pulsar III

Applications

- Remove rust, millscale, heat scale, and carbon build-up
- Strip paint, powder coating, plating and anodizing
- Eliminate burrs, parting lines, and flashings
- Extract residual sand from castings
- Beautify steel, stainless steel, aluminum, brass and other metals
- Etch artwork and lettering into glass, stone, plastics and metal
- Clean residue and release agents from molds



The Pulsar suction blast cabinets combine blast, recovery, reclaim and dust collection in an efficient, compact enclosure.



Blast Cabinets

PULSAR® III and VI SUCTION BLAST CABINET

9.5 Cabinet Plumbing Assembly, Figure 19

Item	Description	Stock No.
1.	Valve, 3 way	12202
2.	Fitting, 1/8" NPT x 1/8" barb	11732
3.	Tubing, 1/8" urethane, specify ft. required	12475
4.	Tubing, 1/8" urethane twinline, specify ft. required	19577
5.	Adaptor, elbow 1/4" male NPT x 3/8 tube	11685
6.	Tubing, 3/8" OD poly, 5 ft. required	12478
7.	Tee, 1/8" barb	11734
8.	Regulator w/ gauge, 1/4"	12050
9.	Nipple, 1/8" NPT hex	01962
10.	Actuator, air pilot	19123
11.	Bushing, 1/2"x 1/4" NPT	01801
12.	Tee, 1/2" NPT	01787
13.	Bushing 1/2"x 1/8" NPT	11350
14.	Nipple, 1/2" close	01733

15.	Bushing 1/4"x 1/8" NPT	02010
16.	Bracket, mounting	19231
17.	Filter, 1/2" manual drain.....	01308
18.	Fitting, 1/2" NPT x 1/2" flare	11351
19.	Hose end, 1/2" barb x 1/2" female swivel ..	15002
20.	Hose end, 1/2" barb x 3/8" male NPT	06369
21.	Blow-off nozzle	13116
22.	Air hose, 1/2" specify ft. required	12472
23.	Gun assembly, BNP no. 5	12302
24.	Hose, media, clear urethane, specify feet required	12476
25.	Regulator, 1/2" pilot operated	11345
26.	Valve, diaphragm pulse	19578
27.	Regulator, 1/8" pilot	12715
28.	Gauge, pressure	11831
29.	Fitting, 1/8" NPT elbow x 1/8" barb	11733
30.	Metering valve assembly	12417
31.	Foot pedal with tubing	20194
32.	Nipple, 1/4" brass hex	02808
33.	Cross, 1/2" NPT	10254

9.11 Dust Collector, Figure 25

Item	Description	Stock No.
(-)	Repair kit, diaphragm pulse valve	21600
1.	Valve, 1" diaphragm pulse	19578
2.	Valve, 3 way	12202
3.	Fitting, 1/8" NPT x 1/8" barb	11732
4.	Nipple, 1/8" NPT hex	01962
5.	Actuator, air pilot	19123
6.	Fitting, 1/4" NPT x 3/8 tube	11736
7.	Petcock	01993
8.	Filter cartridge for Pulsar III, 9" x 26"	19122
	for Pulsar VI, 12" x 30"	19121
9.	Hopper Assembly (avail. for Pulsar VI only) includes items 10 & 11	24029
10.	Gasket, 5/16" x 1" adhesive backed,	00187
	Pulsar III requires 5 feet	
	Pulsar VI, requires 7 feet	

11.	Latch assembly	11876
12.	Hose, I-lined, flex, 4", 1 ft. min. order	12466
13.	Clamp, 4" hose, each	11577
14.	Dust container assembly includes items 12 & 13	23411
15.	Washer, 1/2" ID x 1-1/16" OD	03515
16.	Elbow, 1/4" brass st.	02027
17.	Washer, 1/2" external lock	21699
18.	Wing nut, 1/2" NC	20108

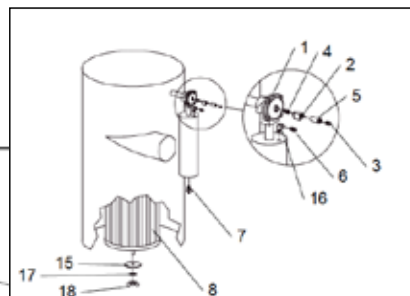
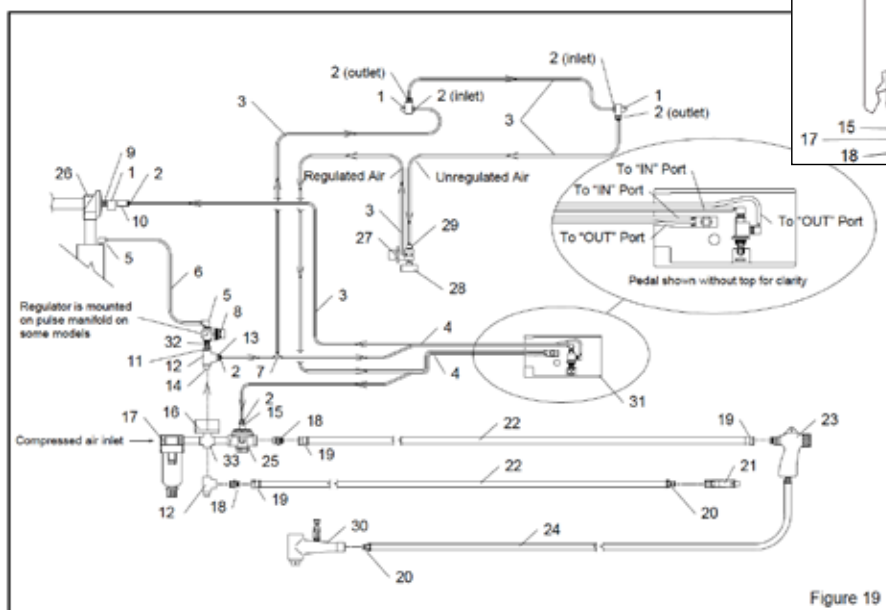


Figure 19





ProFormer™ Blast Cabinets

Empire ProFormer™ cabinets put it all together in a single assembly that's easy to move and simple to hook up. These cabinets require only two connections, air and electrical, and include features offered in our high-production Pro-Finish® line. Plus, they now come in two sizes: the 3642 with interior working dimensions of 36 inches deep by 42 inches wide by 48 inches high and its bigger brother, the 4652. Both include a tunable media reclaimer, capable of recycling a variety of abrasives, and a cartridge-type dust collector, monitored by a minihelic gauge, contained in the same enclosure as the cabinet, along with all electrical and pneumatic interconnections between components. Forklift slots are also provided, making these units easy to move between work stations. Filters can be pulse-cleaned with the press of a button. When filters have to be replaced, they can be changed quickly and cleanly with a twist of two nuts. The filters slide into the cabinet where any loose dust falls into the cabinet, not onto the work floor.

Designed for production blasting, these versatile cabinets enable you to perform multiple tasks. You can clean or peen and perform almost any finishing job in between by simply varying air pressure and blast media. These rugged cabinets can be specified with either suction- or pressure-blast systems as well as a wide range of standard factory options.





Blast Cabinets

Parts: Pro-Finish® Cabinet Assemblies

PRO-FINISH CABINET ASSEMBLY COMPONENTS			2636	3648 3696	CABINET SIZE		
			3660	3674	4848	6060 60120	
Item	Description	PART NUMBERS					
1	Decal, orange dot strip (specify length)	564301	564301	564302	564301	564301	564302
	Length in inches	24"	30"	45"	30"	30"	45"
	Paint, touch-up kit	564476	564476	564476	564476	564476	564476
2	Decal, Empire logo	564305	564305	564306	564305	564305	564306
3	Filter, Kleensweep™ inlet (2 required)	510491	510491	510491	510491	510491	510491
4	Decal, Instruction/Warnings	567391	567391	567391	567391	567391	567391
5	Grommet, blast hose, 1" x 1½"	523931	523931	523931	523931	523931	523931
6	Switch, On/Off, 20 amp	534561	534561	534561	534561	534561	534561
7	Terminal strip, 10 pole	533611	533611	533611	533611	533611	533611
8	Solenoid valve, standard and CSA	519001	519001	519001	519001	519001	519001
9	Adapter, ¼" tube x ⅛" MPT, 90°	520432	520432	520432	520432	520432	520432
10	Tubing, ¼" OD (specify length)	510541	510541	510541	510541	510541	510541
11	Light fixture	532711	532711	532711	532711	532711	532711
12 *	Gasket, light bulb, 1 per bulb	580191	580191	580191	580191	580191	580191
13 †	Floodlight bulb	532701	532701	532701	532701	532701	532701
	Light guard (not shown)	509481	509481	509481	509481	509481	509491
	Light bar (not shown)	NA	NA	NA	NA	NA	770941
14	Hinge, 3"	509531	509531	509531	509531	509531	509531
15	Z-strip (reclaimer mount not shown)	760151	760161	760161	760161	760161	760171
16	Cover, handle	509571	509571	509571	509571	509571	509571
17	Bolt, door, ⅜"-16 x 2" SHCS	552151	552151	552151	552151	552151	552151
	Nut, ⅜"-16 ESNA	553952	553952	553952	553952	553952	553952
18	Handle, door	760361	760361	760361	760361	760361	760971
	Tie bar (not shown)	NA	NA	NA	NA	NA	760401
	Keeper (not shown)	760371	760371	760371	760371	760371	760371
19 †	Bumper, urethane	525041	525041	525041	525041	525041	525041
*	Gasket, ¾" x ¾"	525671	525681	525681	525681	525691	525701
20		(7', 2")	(10', 4")	(10', 4")	(10', 4")	(12', 7")	(15', 0")
*	Gasket, ¾" x ¾" (specify length)	524441	524441	524441	524441	524441	524441
21	Hose with fittings, dust-off gun	522631	522641	522661	526641	521481	522661
22	Gun, dust-off	509821	509821	509821	509821	509821	509821
	Spring (not shown)	511251	511251	511251	511251	511251	511251
23	Floor section, 2 required (4 needed for 3696 & 60120)	760541	760551	760571	760555	760561	760571
24	Interlock hose assembly: ⅜" air hose with clamps	520003	520003	520004	520003	520003	520004
25	Adapter, ¼" x ⅛" MPT, 90°	520432	520432	520432	520432	520432	520432
26	Grommet, dust-off hose, ¼" - ⅝" x 7⁄8"	523951	523951	523951	523951	523951	523951
27	Grommet, suction air hose, ¾" x 1 1⁄16"	523921	523921	523921	523921	523921	523921
	Hole seal (pressure only)	536391	536391	536391	536391	536391	536391
28	Levelling bolt, ⅜" - 16 x 2" (4 required)	551742	551742	551742	551742	551742	551742
29	Brass bushing, treadle (2 required)	510501	510501	510501	510501	510501	510501
30	Tubing, ¼" OD (specify length)	510541	510541	510541	510541	510541	510541
31	Connector, ⅛" MPT x ¼" tube	520252	520252	520252	520252	520252	520252
32	Elbow, ⅛"	543822	543822	543822	543822	543822	543822
33	Barbed PTC, ¼" tube x #10 - 32	521101	521101	521101	521101	521101	521101
34 †	Valve, foot treadle, 3"	517221	517221	517221	517221	517221	517221
†	Barbed fitting, ¼" tube x #10 - 32 with gasket	521101	521101	521101	521101	521101	521101
35	Foot treadle base	760041	760041	760041	760041	760041	760041
36 †	Spring, treadle return (2 required)	510421	510421	510421	510421	510421	510421
37	Grip/cover, treadle	524391	524391	524391	524391	524391	524391
	Foot treadle assembly (includes items 29 through 37)	140160	140160	140160	140160	140160	140160
38	Glove hole flange, plastic	555016	555016	555016	555016	555016	555016
39	Clamp, 8", per glove	520561	520561	520561	520561	520561	520561
40	Gloves, pair*	509891	509891	509891	509891	509891	509891
	Glove, left hand	510821	510821	510821	510821	510821	510821
41 *Δ	Safety glass, 14" x 22"	510401	510401	510401	510401	510401	510401
42	Knob, ⅜" - 16 (4 required)	510461	510461	510461	510461	510461	510461
43	Frame, window	760291	760291	760291	760291	760291	760291
†	Gasket, window, 6' section	524451	524451	524451	524451	524451	524451
44	Gasket, ¼" x ¼" (specify length)	525941	525941	525941	525941	525941	525941
	Gasket, ⅛" x ¼" (specify length)	523551	523551	523551	523551	523551	523551
45	Spacer, window (4 required)	525931	525931	525931	525931	525931	525931
46	Bolt, ⅜" - 16 x 1 ¼"	551852	551852	551852	551852	551852	551852
47	Window kit (includes items 41 through 46)	140544	140544	140544	140544	140544	140544

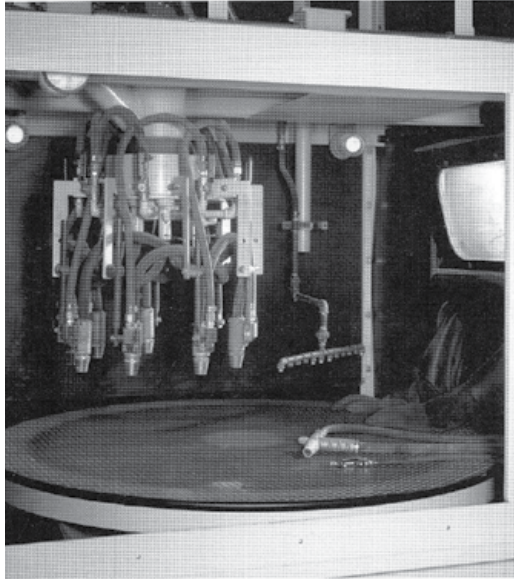
* Recommended spare part—Consumable wear item

† Essential component to prevent downtime

Δ Failure to replace glass with Empire safety glass could result in serious injury.

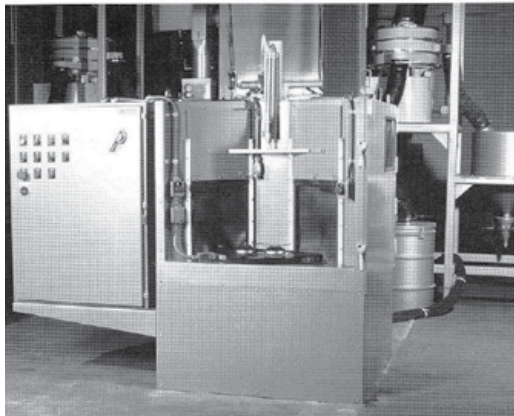


Automated Blast Cabinets



ROTARY-HEAD MACHINES FOR CONTINUOUS PROCESSING

Our continuous turntable machines come in four standard models with table diameters ranging from 48" up to 108". The operator loads and unloads parts from the front while the machine is blasting and can easily finish both sides of workpieces by simply flipping them over for a second pass. The larger units are available with two rotary blast heads which can be oriented to perform separate functions, such as blasting the interior and exterior of parts at the same time. Standard features include a rubber cabinet lining and a urethane coating on the turntable to extend service life.



BNP A200 & A205

A ZERO BNP A200 or A205 puts precise, repeatable, automated blast cleaning, surface finishing, deburring, and peening within the reach of small to mid-size manufacturers and machining centers.

The BNP A200 measures four by four feet. The BNP A205 is a slightly larger cabinet (five by five feet) to allow more options for gun placement and more room for maintenance work. The two models share many features with ZERO's custom-engineered automated systems - indexing turntable, rotating satellites, automatic blow-off, and fingertip process controls for cycle timer and parts rotation.

00 series cabinets are packed with features.

CLEMCO



Blast Cabinet Replacement Parts

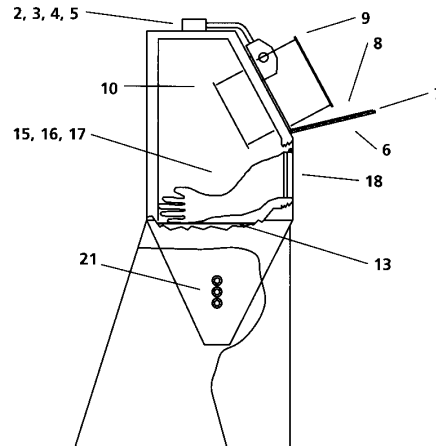
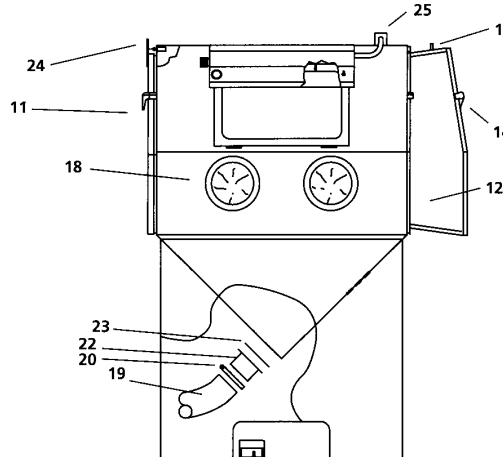
CLEMCO



ZERO
Blast Cabinets

BLAST CABINET ASSEMBLY

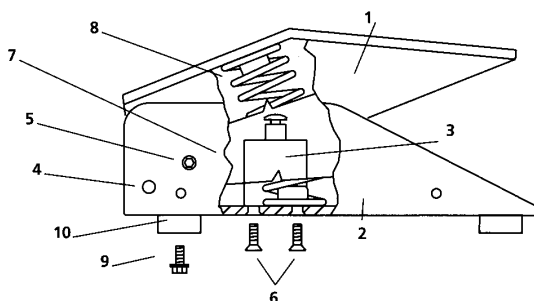
BNP 55, 65, 220 AND TWO STATION CABINET REPLACEMENT PARTS



Item numbers correspond to those shown in the *Owners' Manual* for easy reference.

ITEM	DESCRIPTION	PART #
1	Gasket, Door, Adhesive Backed, Specify Length Required In Feet	
	55: 8 ft. Per Door	00187
	65: 11 ft. Per Door	00187
	220: 13 ft. Per Door	00187
2	Complete Light Assembly With Cover	23255
3	Light Fixture	23251
4	Lens, Reflector	23253
5	Tube, Floor, 20w	23252
6	Window Glass, 12.5" x 19.5"	12212*
7	Knobs, Window Frame	23035
8	Gasket, Window Frame, 6 ft. Required	00192
9	Filler Strip, Window Seal Gasket, 6 ft. Required	00189
10	Cover Lens, Pkg. Of 5	06190*
11	Door Assembly, Left	
	For 55	20068
	For 65	20070
	For 220	20074
12	Door Assembly, Right	
	For 55	20069
	For 65	20071
	For 220	20075
13	Grating	
	For 55	11813
	For 65	11811
	For 220	11810
14	Latch Kit, Door	20064

ITEM	DESCRIPTION	PART #
15	Glove Set	11215
16	Glove, Left Hand Only	12710
17	Glove, Right Hand Only	12711
18	Clamp, Glove	11576
19	Hose, Light Lined Flex, Specify Feet Required	
	4" i.d. For 300 CFM	12466
	5" i.d. For 600 CFM	12467
	6" i.d. For 900 CFM	12468
20	Clamp, Hose	
	4-1/2" For 4" Hose	11577
	5-1/2" For 5" Hose	11578
	8-1/2" For 6" Hose	11576
21	Grommet, Media/Air Hose	11798
22	Transition, Hopper To Hose	
	4" For 55 & 65 With 300 CFM	12376
	5" For 55 & 65 With 600 CFM	12377
	5" For 220 With 600 CFM	20342
	5" 220 With 900 CFM With Steel Media	20342
23	Gasket, Hopper Transition	
	4" For 55 & 65 With 300 CFM	11776
	5" For 55 & 65 With 600 CFM	11777
	5" 220 With 600 CFM	11780
	5" 220 With 900 CFM With Steel Media	11780
24	Air Valve, 1/8" npt, 3 Way	12202
	Regulator, 1/8" npt, Pilot	12715



ITEM	DESCRIPTION	PART #
(-)	Foot Pedal Assembly, Less Hose	20483
1	Top, Foot Pedal	20017
2	Base, Foot Pedal	20148
3	Valve, 3 Way n/c	20026
4	Drive Pin, Grooved	20109
5	Screw, 1/4 nf x 3/4" Socket Head	03086
6	Screw, 10-32 x 1/2" Flat Head	19571
7	Adapter, 10-32 thrd. x 1/8 Barb	11731
8	Spring, 1-1/4" x 3-1/2"	20121
9	Screw, 8-32 x 3/8" Thread Cut	11389
10	Bumper, Rubber	21522

CLEMCO



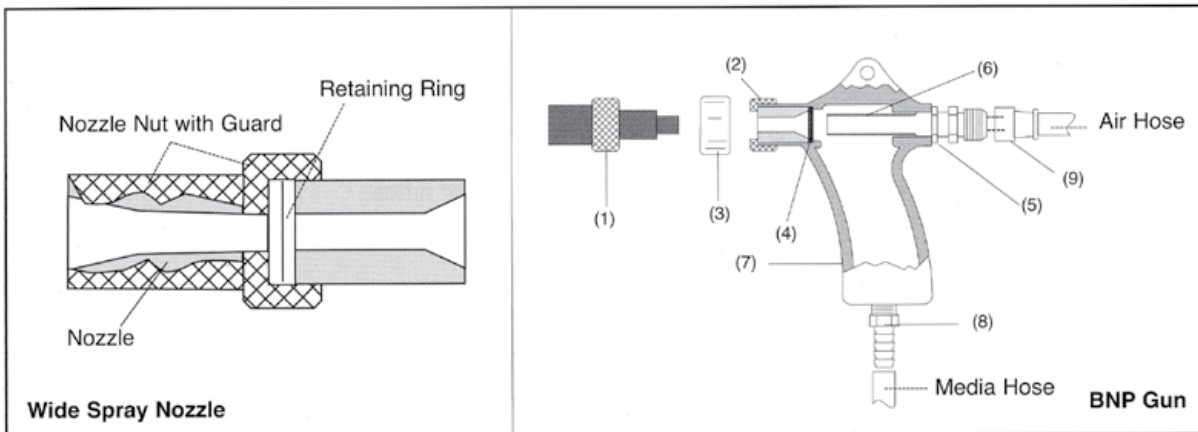
Blast Cabinet Replacement Parts

SUCTION CABINET ACCESSORIES - GUNS, ORIFICES AND NOZZLES

BNP Gun Assembly

Description	Stock No.
1. Adjusting tool, BNP gun	19041
2. Nozzle holding nut, Knurled brass (std)	11914
3. Optional nozzle holding nut, urethane cover	11574

Description	Stock No.
4. O-ring, BNP gun	08975
5. Lock nut, 5/8" orifice	11913
6. Orifice sleeve	12097
7. Gun body, BNP	11802
8. Hose end, 1/2" barb	06369
9. Hose end, 1/2" flare	15002



Description	Stock No.
BNP gun diagnostic tool	
Vacuum gauge 3-30" Hg	04041

BNP Gun Assemblies (orifice only) (Order nozzle separately)

#4 BNP	12301
#5 BNP	12302
#6 BNP	12303
#7 BNP	12304
#8 BNP	12305

Orifice Assemblies

#3	12348
#4	12342
#5	12343
#6	12344
#7	12345
#8	12346

Description	Stock No.
-------------	-----------

Ceramic Nozzles

#5 (green tip)	11930
#6 (blue tip)	11931
#7 (red tip)	11932

Tungsten Carbide Nozzles

#5	13118
#6 (wide spray)	11947
#7	12882
#8	11942

Boron Carbide Nozzles

#5	11935
#6	11936
#6 (wide spray)	11934
#7	11937
#8	12894
#8 (wide spray)	11944

NOTE: Wide spray nozzles require the following accessories:

W/S nozzle nut	11916
W/S retaining ring	12038
W/S nozzle nut w/guard	12295



Blast Cabinet Replacement Parts

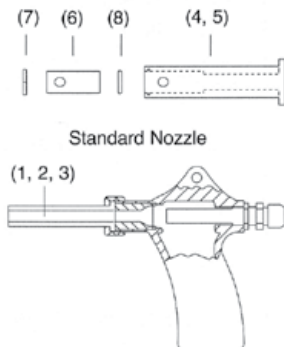
SUCTION CABINET - NOZZLES

PRESSURE CABINET - NOZZLES

BNP (Suction) Extension Nozzles

Description	Stock No.
1. 3" Straight extension nozzle, 11/16" OD	
No. 5, 5/16" orifice	11921
No. 6, 3/8" orifice	11922
No. 7, 7/16" orifice	11923
2. 6" Straight extension nozzle, 11/16" OD	
No. 5, 5/16" orifice	11927
No. 6, 3/8" orifice	11928
No. 7, 7/16" orifice	11929
3. 9" Straight extension nozzle, 11/16" OD	
No. 5, 5/16" orifice	11924
No. 6, 3/8" orifice	11925
No. 7, 7/16" orifice	11926
4. 6" Side angle extension nozzle, complete, 11/16" OD	
5/16" orifice, incl 6-8 ..	12374
5. 9" Side angle extension nozzle, complete, 11/16" OD	
5/16" orifice, incl 6-8 ..	12373
6. Side angle tip	12173
7. Side angle snap ring	12040
8. Side angle o-ring	08977

Extension Nozzles



Note:
 Extension nozzle OD is 11/16";
 Allow space for media/air escape
 when blasting blind holes.

Tungsten Carbide lined

1/2" Entry, 3/4" Threads, Straight Barrel:
 (Nozzle includes 00853 NW-1 washer)

Description	Stock No.
CT-2 nozzle 1/8" orifice	
x 1-3/4" long	01351
CT-3 nozzle 3/16" " orifice	
x 1-3/4" long	01352
CT-4 nozzle 1/4" " orifice	
x 1-3/4" long	01353
CT-5 nozzle 5/16" orifice	
x 1-3/4" long	01354
CT-6 nozzle 3/8" orifice	
x 1-3/4" long	01355

Boron Carbide lined

1/2" Entry, 3/4" Threads, Straight Barrel:
 (Nozzle includes 00853 NW-1 washer)

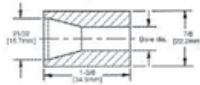
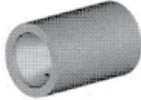
Description	Stock No.
CTB-2 nozzle 1/8" orifice	
x 1-3/4" long	21090
CTB-3 nozzle 3/16" orifice	
x 1-3/4" long	21091
CTB-4 nozzle 1/4" orifice	
x 1-3/4" long	21092
CTB-5 nozzle 5/16" orifice	
x 1-3/4" long	21093
CTB-6 nozzle 3/8" orifice	
x 1-3/4" long	21094

Nozzle Washers:

NW-1 (pk of 10) for CT
 and CTB nozzles21580

Nozzles

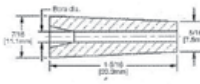
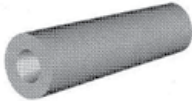
CL 166 SERIES ALUMINUM OXIDE CERAMIC INSERTS FOR CABINET NOZZLES



7/8" O.D.

Straight Bore			
Part Number	Model Number	Bore Diameter	Length
1216640	CL166-4	1/4" (6.4mm)	1-3/8" (34.9mm)
1216650	CL166-5	5/16" (7.9mm)	1-3/8" (34.9mm)
1216660	CL166-6	3/8" (9.5mm)	1-3/8" (34.9mm)
1216670	CL166-7	7/16" (12.7mm)	1-3/8" (34.9mm)

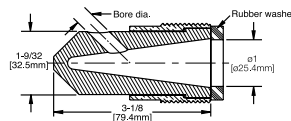
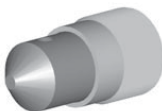
C2 SERIES ALUMINUM OXIDE CERAMIC INSERTS FOR CABINET NOZZLES



7/16" O.D. tapered to 5/16"

Straight Bore			
Part Number	Model Number	Bore Diameter	Length
1214010	C2-1	3/32" (2.4mm)	1-5/16" (33.3mm)
1214015	C2-1-1/2	7/64" (2.8mm)	1-5/16" (33.3mm)
1214020	C2-2	1/8" (3.2mm)	1-5/16" (33.3mm)
1214025	C2-2-1/2	5/32" (4mm)	1-5/16" (33.3mm)

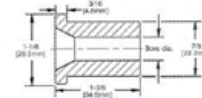
T045 TUNGSTEN CARBIDE NOZZLE WITH BRASS THREADS



Tungsten carbide nozzle with brass threads.

45° Angle Nozzles		T045 Series	
Thread Style		11/4-11-1/2 N.P.S.M.	
Part Number	Model Number	Bore Diameter	Length
1904530	T045-3	3/16" (4.8mm)	3-1/8" (79.4mm)
1904540	T045-4	1/4" (6.4mm)	3-1/8" (79.4mm)
1904550	T045-5	5/16" (7.9mm)	3-1/8" (79.4mm)
1904560	T045-6	3/8" (9.5mm)	3-1/8" (79.4mm)
1904570	T045-7	7/16" (11.1mm)	3-1/8" (79.4mm)
1904580	T045-8	1/2" (12.7mm)	3-1/8" (79.4mm)

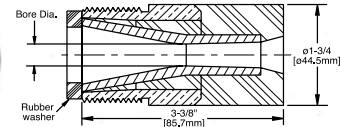
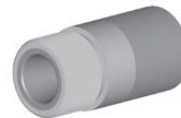
CL 198 SERIES ALUMINUM OXIDE CERAMIC INSERTS FOR CABINET NOZZLES



1-1/8" O.D. flange.

Straight Bore			
Part Number	Model Number	Bore Diameter	Length
1219830	CL198-3	3/16" (4.8mm)	1-3/8" (34.9mm)
1219840	CL198-4	1/4" (6.4mm)	1-3/8" (34.9mm)
1219850	CL198-5	5/16" (7.9mm)	1-3/8" (34.9mm)
1219860	CL198-6	3/8" (9.5mm)	1-3/8" (34.9mm)
1219870	CL198-7	7/16" (11.1mm)	1-3/8" (34.9mm)
1219880	CL198-8	1/2" (12.7mm)	1-3/8" (34.9mm)

T121-P SERIES TUNGSTEN CARBIDE SHORT VENTURI NOZZLES



Tungsten carbide liner with polyurethane jacket and brass threads.

Venturi Bore		T121-P Series	
Thread Style		1-1/4 11-1/2 N.P.S.M.	
Part Number	Model Number	Bore Diameter	Length
2082130	T121-3P	3/16" (4.8mm)	3-3/8" (85.7mm)
2082140	T121-4P	1/4" (6.4mm)	3-3/8" (85.7mm)
2082150	T121-5P	5/16" (7.9mm)	3-3/8" (85.7mm)
2082160	T121-6P	3/8" (9.5mm)	3-3/8" (85.7mm)
2082170	T121-7P	7/16" (11.1mm)	3-3/8" (85.7mm)
2082180	T121-8P	1/2" (12.7mm)	3-3/8" (85.7mm)
2082190	T121-10P	5/8" (15.9mm)	3-3/8" (85.7mm)

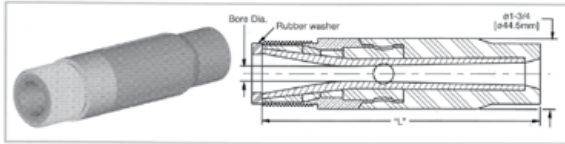


CLEMCO CT NOZZLE 3/4" THREAD BEST SELLING CABINET NOZZLE

	Model No.	Stock No.	Orifice ID	Length	Net Wt
3/4" Thread	CT-2	01351	1/8"	1-3/4"	.30 lb
	CT-3	01352	3/16"	1-3/4"	.30 lb
	CT-4	01353	1/4"	1-3/4"	.30 lb
	CT-5	01354	5/16"	1-3/4"	.30 lb
	CT-6	01355	3/8"	1-3/4"	.20 lb
	CT-7	01356	1/2"	1-3/4"	.20 lb
	CT-8	01356	1/2"	1-3/4"	.20 lb
	CT-8	01356	1/2"	1-3/4"	.20 lb

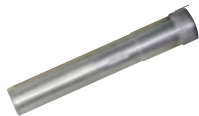
Nozzles

TLVE-P SERIES TUNGSTEN CARBIDE LONG VENTURI NOZZLES



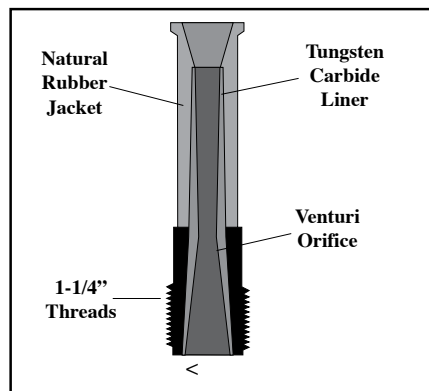
For physically demanding operations with less resistance against breakage than our top-of-the-line TLVE-Bruiser®, we recommend the TLVE-P (poly series). This tungsten carbide nozzle features brass threads and a reinforced polyurethane upper body.

Venturi Bore	TLVE-P Series	Contractor's #1 Choice	
Thread Style	1-1/4 - 11-1/2 N.P.S.M.		
Part Number	Model Number	Bore Diameter	Length
2015630	TLVE-3P	3/16" (4.8mm)	4-3/8" (111.1mm)
2015640	TLVE-4P	1/4" (6.4mm)	5-1/2" (139.7mm)
2015650	TLVE-5P	5/16" (7.9mm)	5-7/8" (149.2mm)
2015660	TLVE-6P	3/8" (9.5mm)	6-7/8" (174.6mm)
2015670	TLVE-7P	7/16" (11.1mm)	8-1/8" (206.4mm)
2015680	TLVE-8P	1/2" (12.7mm)	9-1/8" (231.8mm)

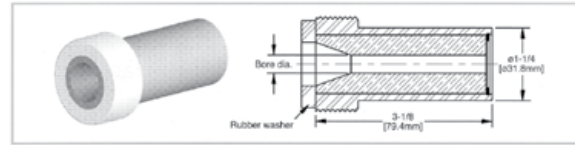


CLECO CLEMLITE TUNGSTEN CARBIDE LINED METAL JACKETED

	Model No.	Stock No.	Orifice ID	Length	Net Wt
Fine 1-1/4" Thread 1" Entry	CJD-3	01378	3/16"	3-1/8"	.70 lb
	CJD-4	01379	1/4"	3-1/8"	.70 lb
	CJD-5	01380	5/16"	3-1/8"	.70 lb
	CJD-6	01381	3/8"	3-1/8"	.80 lb
	CJD-7	01382	7/16"	3-1/8"	.80 lb
	CJD-8	01383	1/2"	3-1/8"	.90 lb
Fine 1-1/4" Thread 1" Entry	CSD-3	01384	3/16"	4-1/4"	1.1 lb
	CSD-4	01385	1/4"	5-3/8"	1.3 lb
	CSD-5	01386	5/16"	5-3/4"	1.3 lb
	CSD-6	01387	3/8"	6-3/4"	1.6 lb
	CSD-7	01388	7/16"	8"	2 lb
	CSD-8	01389	1/2"	9"	2.4 lb
Fine 1-1/4" Thread 1-1/4" Entry	CXD-6	23460	3/8"	6-3/4"	1.6 lb
	CXD-7	23461	7/16"	8"	2 lb
	CXD-8	23462	1/2"	9"	2.5 lb
Contractor Thread 1-1/4" Entry	TXD-6	99147	3/8"	6-3/4"	1.9 lb
	TXD-7	99148	7/16"	8"	2 lb
	TXD-8	99149	1/2"	9-9/16"	2 lb



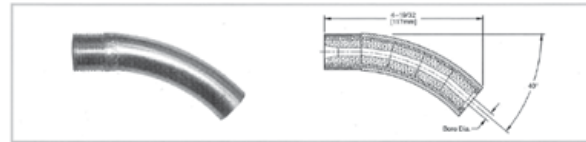
E SERIES BORON CARBIDE STRAIGHT BORE NOZZLES



Boron carbide liner with steel jacket and threads.

Straight Bore	E Series	For Longer Life In Pressure Blast Applications	
Thread Style	1-1/4 - 11-1/2 N.P.S.M.		
Part Number	Model Number	Bore Diameter	Length
1503023	B2M3-E	1/8" (3.4mm)	3-1/8" (79.4mm)
1503033	B3M3-E	3/16" (4.8mm)	3-1/8" (79.4mm)
1503043	B4M3-E	1/4" (6.4mm)	3-1/8" (79.4mm)
1503053	B5M3-E	5/16" (7.9mm)	3-1/8" (79.4mm)
1503063	B6M3-E	3/8" (9.5mm)	3-1/8" (79.4mm)
1503083	B8M3-E	1/2" (12.7mm)	3-1/8" (79.4mm)

40° BORON CARBIDE BANANA NOZZLES FOR ANGLE PRESSURE BLAST



Boron carbide nozzle with metal jacket and threads.

40° Angle Nozzles	Banana Series		
Thread Style	3/4 - 14 mm N.P.S.M.		
Part Number	Model Number	Bore Diameter	Length
1502510	6mm Banana Nozzle	.236" (6mm)	4.6" (117mm)
1502515	8mm Banana Nozzle	.315" (8mm)	4.6" (117mm)
1502520	10mm Banana Nozzle	.374" (10mm)	4.6" (117mm)

	Model No.	Stock No	Orifice ID	Length
Fine 1-1/4" Thread	TJP-3	23507	3/16"	3-3/4"
	TJP-4	23508	1/4"	3-3/4"
	TJP-5	23509	5/16"	3-3/4"
	TJP-6	23510	3/8"	3-3/4"
	TJP-7	23511	7/16"	3-11/16"
	TJP-8	23512	1/2"	3-11/16"
Contractor Thread	TYP-3	23501	3/16"	3-3/4"
	TYP-4	23502	1/4"	3-3/4"
	TYP-5	23503	5/16"	3-3/4"
	TYP-6	23504	3/8"	3-3/4"
	TYP-7	23505	7/16"	3-3/4"
	TYP-8	23506	1/2"	3-3/4"
Fine 1-1/4" Thread	TSP-3	23513	3/16"	4-3/4"
	TSP-4	23514	1/4"	5-3/4"
	TSP-5	23515	5/16"	6-1/4"
	TSP-6	23516	3/8"	7-3/4"
	TSP-7	23517	7/16"	8-1/2"
	TSP-8	23518	1/2"	9-5/8"
Contractor Thread	TMP-3	23519	3/16"	4-3/4"
	TMP-4	23520	1/4"	6"
	TMP-5	23521	5/16"	6-1/4"
	TMP-6	23522	3/8"	7-1/4"
	TMP-7	23523	7/16"	8-1/2"
	TMP-8	23524	1/2"	9-3/4"
Contr Thread	TXP-6	23525	3/8"	7-3/8"
	TXP-7	23526	7/16"	8-1/2"
	TXP-8	23527	1/2"	9-3/4"

Blast Cabinet Gloves

CABINET GLOVES



CLEMCO ZERO

Part #

11215

size 9" CUFF x 30" PAIR

12710

LEFT GLOVE ONLY

12711

RIGHT GLOVE ONLY

UNIVERSAL STYLE

Part #

FC331232

12" CUFF X 30" PAIR

FC331232L

LEFT GLOVE ONLY

FC331232R

RIGHT GLOVE ONLY

EMPIRE STYLE

Part #

509891

PAIR

TRINCO

Part #

TR200047

PAIR HEAVY NATURAL RUBBER

TR200048

PAIR NEOPREME

TR202025

BLUE GUNTLET 8"X3"

KLEEN BLAST

Part #

KCAB 6GS9075X

Cabinet SucBlst

KB35.5Wx30x28

CMV01910

LEFT GLOVE

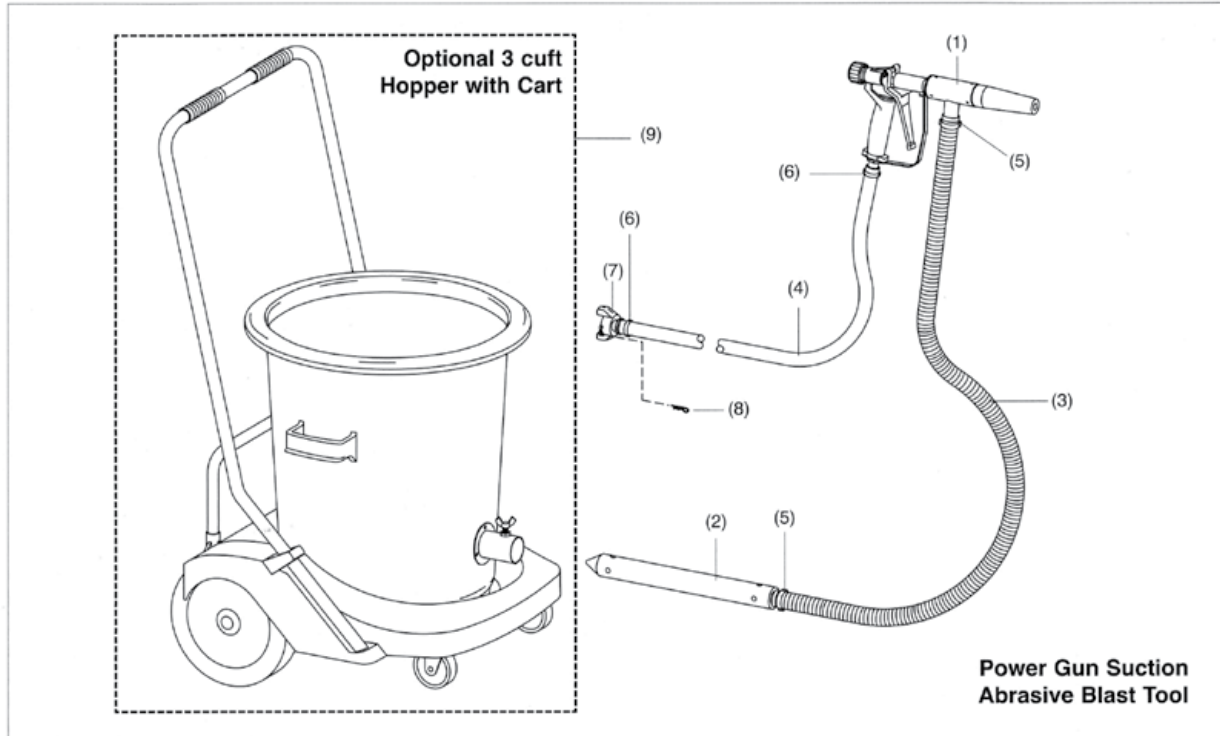
CMV01911

RIGHT GLOVE

CALL 1-800-KLEENBLAST FOR OTHER SIZES

Low Cost Suction Blasters

POWER GUN



Power Gun

Description	Stock No.
-------------	-----------

(-) Power gun assembly w/hoses, lance, 3 cuft hopper & cart	99860
---	-------

(-) Power gun assembly w/hoses, lance less hopper & cart.....	90253
---	-------

The Power Gun is a suction-type abrasive blasting tool. It is suited for light-duty, and small touch-up blasting jobs.

1. Blast gun assembly	100477
2. Lance	90214
3. Hose, material, bulk, specify feet req'd, 16 ft. max. length.....	24778

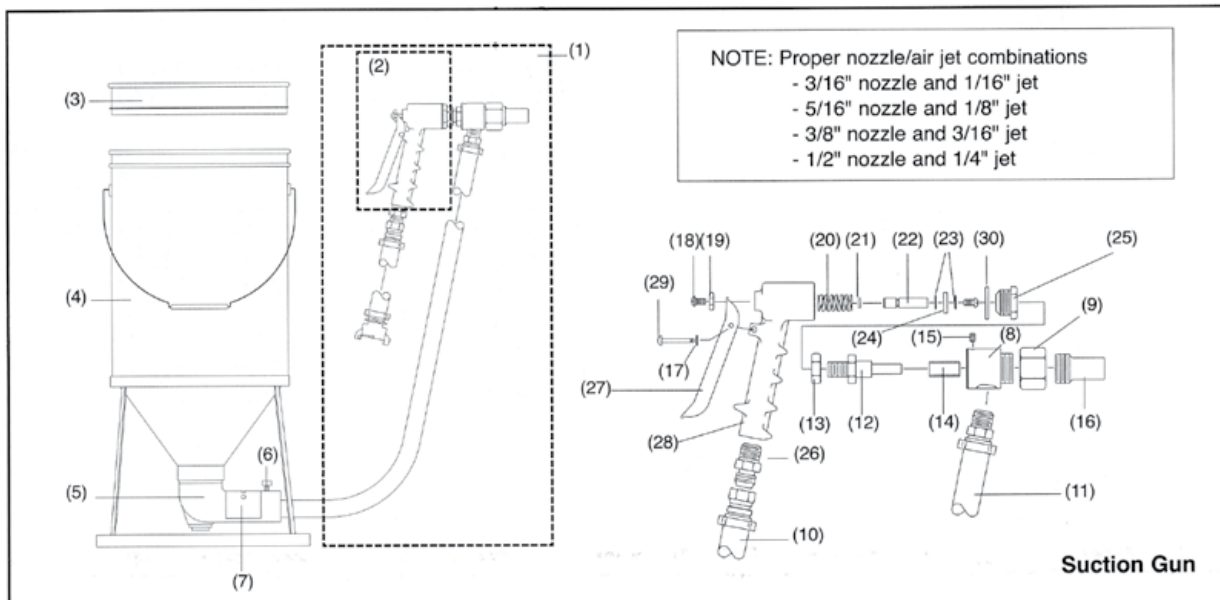
Description	Stock No.
-------------	-----------

4. Hose, air, bulk, specify feet req'd, 16 ft. max. length.....	24779
5. Clamp, material hose	24780
6. Clamp, air hose	02801
7. Coupling, air hose	00595
8. Lock pin, pk of 25	11203
9. Hopper & cart assembly	99899

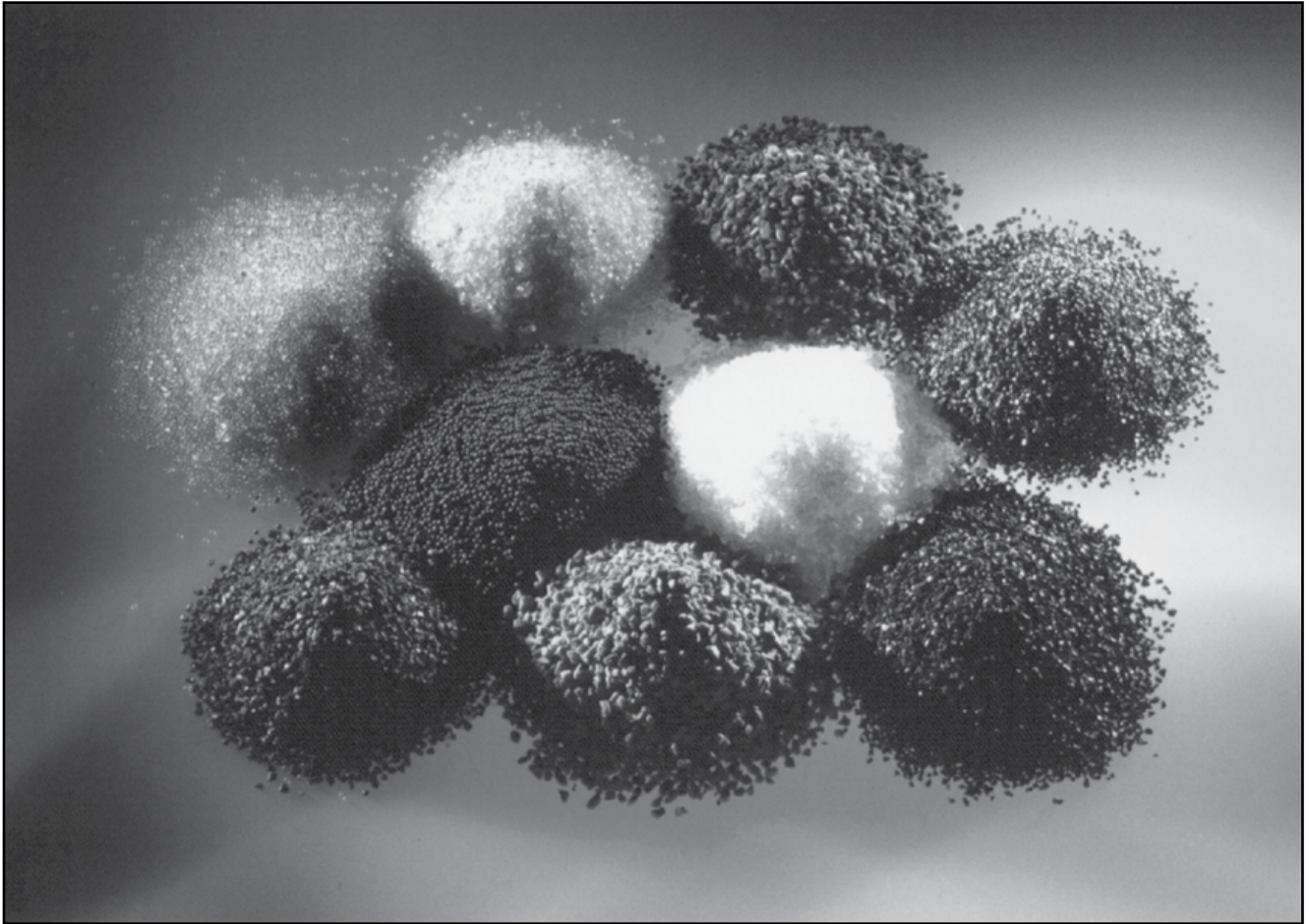
Low Cost Suction Blasters

SUCTION GUN

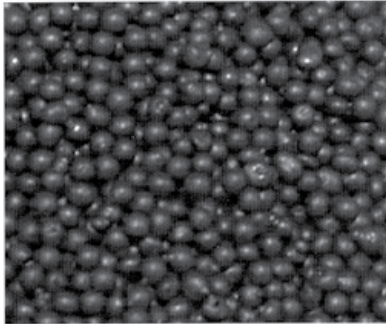
Description	Stock No.	Price	Disc.	Wt.	Description	Stock No.
(-) Suction Gun (SG-300) includes: light-duty, portable hopper, with 10 ft. air hose, 10 ft. material hose, screen, 5/16" tungsten nozzle and 1/8" jet02641						
Description	Stock No.					
1. SGLH Air Gun, Nozzle and Hose assembly	02643				15. Set screw, 1/4-NC x 1/4"	03075
2. SGT Air Gun Assembly	02642				16. Nozzle 3/16" orifice	01352
3. Hopper screen	02673				1/4" orifice	01353
4. Hopper	02675				5/16" orifice (std.)	01354
5. Abrasive feed elbow	02676				3/8" orifice	01355
6. Retaining thumb screw	03131				1/2" orifice	01356
7. Adjusting sleeve	10809				17. Retaining ring	02644
8. Suction body	02663				18. Screw, round head, 8-32 x 3/8"	02645
9. Suction body nut	02664				19. Valve lift washer	02646
10. Air hose assembly, 1/2" dia x 10 ft.	02665				20. Spring, 3/8" ID x 1-1/8" long	02647
11. Material hose assembly, 1/2" dia x 10 ft.	02666				21. O-ring, 3/16" ID x 1/16"	01992
12. Air jet 1/16" orifice	02659				22. Valve stem	02649
1/8" orifice (std.)	02660				23. Washer, No. 8 x 1/2" OD	02648
3/16" orifice	02661				24. Valve seat, neoprene, 3/4" OD x 1/8" thick	02650
1/4" orifice	02662				25. Valve seat, brass	02651
13. Lock nut	02667				26. Air hose connector	02652
14. Air Jet sleeve	02668				27. Valve trigger	02653
					28. Body	02654
					29. Trigger hinge pin	02655
					30. Valve seat gasket	02657
					(-) Coupling lock pin, pk of 25	11203



Abrasives



STEEL GRIT AND SHOT

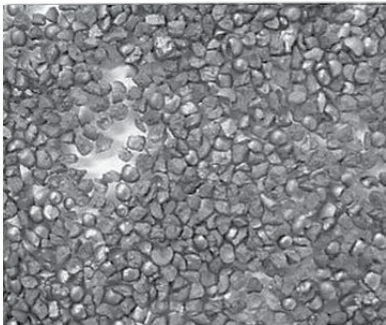


STEEL SHOT

- Used in both airblast and wheelblast equipment for blast cleaning or peening steel and other hard surfaces
- Used in the cleaning and preparation of concrete
- Application must tolerate potential ferrous residue
- Round abrasive media that is extremely durable and dense
- Will produce exceptional cleaning rates in both air and wheelblast equipment
- Available with specific hardness, roundness, and size specifications as required for certain peening applications

SPECIFICATIONS

- Round shape
- Typical 40-50 Rockwell C
- SAE sizing S-70 – S-780
- Special peening shot 55-62 Rockwell C
- 7.3-7.6 grams/cubic centimeter specific gravity



STEEL GRIT

- Solid, angular media with high density
- Produces a rough, uniform, matte finish with a sharp, coarse texture
- Used in both airblast and wheelblast equipment for blast cleaning and profiling steel and other hard surfaces
- Application must tolerate metal removal and aggressive blast energy
- Will produce exceptional cleaning rates in both air and wheel blast equipment
- Available with different hardness specifications to tailor the material to the contaminant, profile, and surface finish requirements

SPECIFICATIONS

- Soft 40-50 Rockwell C
- Medium 56-60 Rockwell C
- Hard 60-66 Rockwell C
- Angular shape
- SAE sizing G120 – G10
- 7.3-7.6 grams/cubic centimeter specific gravity



CAST STAINLESS STEEL SHOT

- A round metallic abrasive
- For air and wheelblast steel shot applications that cannot tolerate any ferrous residue, particularly when the work surface is stainless
- Smaller sizes can be used in airblast equipment
- All sizes can be used in wheelblast equipment
- Many similar qualities to conditioned stainless steel cut wire

SPECIFICATIONS

- Round shape
- Typical 42-55 Rockwell C
- Will not leave a ferrous residue
- 7.3-7.6 grams/cubic centimeter specific gravity

Abrasives



Patented

E.F. White Aluminum Oxide

C.A.R.B. Approved for Unconfined Blasting

Patented



ALWAYS IN STOCK!

Most Popular Sizes

Fast Cutting / Long Lasting

**Best Value In
C.A.R.B. Approved Al_2O_3**

Color - White
Particle Shape - Angular
Hardness - 9.5 mohs
Density - 96-110 lbs./ ft.³
Specific Gravity - 3.7
Moisture Content - < 0.5%
Free Silica - None
Chemical Reactivity - Inert

**#12, #16, #20, #24
Coarse**

Aggressive grits engineered for tough jobs. Creates a deep profile. *Coating/Scale Removal, Surface Preparation, Monument Finishing.* 4-5 mil profile on steel.

**#24/46, #36/46
Medium**

Designed for all-around surface preparation, including profiling stainless steel. A replacement for Garnet, Slag, and Silicon Carbide. 2.5-4 mil profile on steel.

**#54, #80
Fine**

A more refined abrasive for special applications, including surface preparation for powder coating and custom painting. Removes light scale and rust. Epoxy removal from floors. 1.5-3 mil profile on steel.

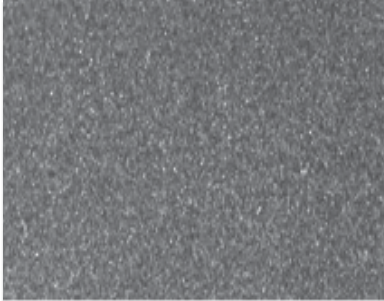
**Custom Sizes
Available**

A Product of



1 - 8 0 0 K L E E N B L A S T

SPECIALTY ABRASIVES

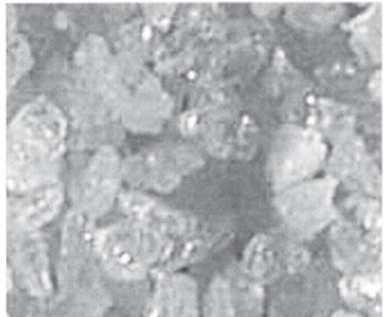


BROWN ALUMINUM OXIDE

- Extremely hard, sharp, and durable abrasive
- Angular shape and fairly high bulk density will produce a matte surface finish
- Capable of metal removal
- Abrasive is generally reusable many times because of its hardness and durability
- Anchor pattern creation prior to coating or bonding
- Rust, scale, or other tough contaminant removal
- Application must tolerate some metal removal
- Used for grinding and lapping as well as abrasive blasting

SPECIFICATIONS

- | | | |
|--|---|--|
| • Angular shape | • MOH hardness: 9.0 | • Micro grits available |
| • Approximately 120 lbs/cu. ft. bulk density | • Manufactured to ANSI Table 2 and Table 3 grit sizes | • Custom grit sizes and blends available |

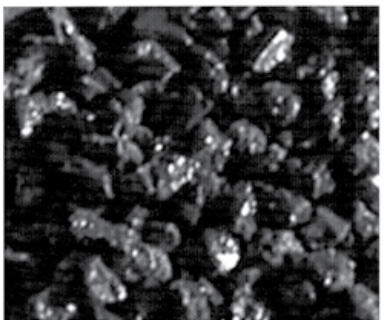


WHITE ALUMINUM OXIDE

- Tough cleaning and surface etching applications that have a very low tolerance for iron residue
- Extremely hard, sharp abrasive
- Similar to brown aluminum oxide but manufactured for an extremely low iron content
- More friable than brown aluminum oxide

SPECIFICATIONS

- | | | |
|--|--|---|
| • Angular shape | • MOH hardness: 9.0 | • Micro grits available |
| • Approximately 120 lbs/cu. ft. bulk density | • Custom grit sizes and blends are available | • Manufactured to ANSI Table 2 grit sizes |



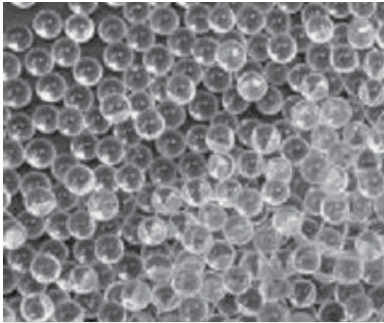
SILICON CARBIDE

- Extremely hard and sharp abrasive
- Will produce a matte surface finish
- Capable of metal removal
- Highly friable abrasive media which is reusable but less durable than brown aluminum oxide
- Cleaning or etching the hardest sub-surfaces
- May be required for some applications that require brazing or welding after blasting
- Used for grinding, lapping, and wire saw cutting as well as abrasive blasting

SPECIFICATIONS

- | | | |
|---|--|--|
| • Angular shape | • MOH hardness: 9.5 | • Highly friable abrasive |
| • Micro grit available | • Approximately 105 lbs/cu. ft. bulk density | • Custom grit sizes and blends available |
| • Manufactured to ANSI Table 2 grit sizes | | |

SPECIALTY ABRASIVES



GLASS BEADS

- Round abrasive media that is reusable and will produce a satin finish
- For cleaning, peening, and cosmetic finishing where stock removal must be minimized
- A wide range of sizes allows smooth to more textured finishes and are excellent for ferrous and non ferrous surfaces
- Glass beads are also excellent for light to medium peening of metal parts to reduce fatigue

SPECIFICATIONS

- Round shape
- Appx. specific gravity: 2.45 - 2.5
- MOH hardness: 5.5 - 6.0
- Available in both Military and non-military sizing specifications
- Micro grits available



PLASTIC BLASTING MEDIA

- Light weight, angular media that is available in different hardnesses to suit an application
- Excellent choice for the removal of paint and other organic coatings without harm to delicate substrates such as aluminum or composites
- Used for plastic and rubber deflashing
- Hardness selection can be tailored to surface substrate for proper contaminant removal without damaging underlying surface
- Light abrasive particles attain great velocity in abrasive blast equipment without great mass to allow very fast stripping rates without surface damage

SPECIFICATIONS

- Angular or blocky shape
- Type II Urea 3.5 MOH
- Type I & Type IV appx. 45-48 lbs/cu. ft. bulk density
- Military and non-military spec products available
- MOH hardness: 3.0-4.0
- Type III melamine 4.0 MOH
- Type II & Type III appx. 58-60 lbs/cu. ft. bulk density
- Type I polyester 3.0 MOH
- Type IV acrylic 3.5 MOH
- Available in mixed grits based on sieve sizing



SPECIALTY ABRASIVES

GARNET



- Angular shaped mineral abrasive
- Produces a rough, uniform matte finish with a sharp texture
- For profiling, cleaning, and the removal of paint, corrosion, rust, scale
- Grain shape and high bulk density result in a fast cutting and stripping abrasive with relatively low dust
- Used extensively in water jet cutting
- Suitable for moderate reuse although less durable than most fused electrominerals

SPECIFICATIONS

- Angular shape
- MOH hardness: 7 - 8
- Appx. 145 lbs/cu. ft. bulk density
- Available in grits sizes based upon sieve screen measurement

CRUSHED GLASS *"Bright Blast"*



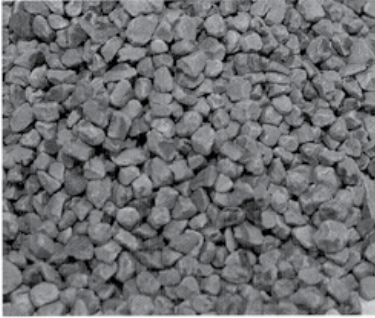
- An inexpensive angular abrasive that will produce a matte surface finish with low reuse
- Primarily for anchor pattern creation or applications requiring the removal of rust, scale, and paint where abrasive reclamation for reuse is not available or feasible
- A cost effective substitute for some slag and mineral abrasives

SPECIFICATIONS

- Angular shape
- MOH hardness: 5.5 - 6
- Specific gravity: 2.2
- Available in mixed grit sizes based upon sieve screen measurement



LIGHT DENSITY SPECIALTY ABRASIVES



WALNUT SHELLS

- Very light, angular shaped media
- Suitable for stripping, deburring or cleaning of many soft substrates including aluminum, wood, plastic and some composites
- Overlaps plastic media in some applications although is less durable than plastic

SPECIFICATIONS

- Angular or blocky shape
- MOH hardness: 2.5-3.5
- Appx. 44 lbs/cu. ft bulk density
- Available in mixed grits based upon sieve screen measurement



SODIUM BICARBONATE "Natrium"

- An extremely soft and light abrasive media with the unique characteristic of water solubility
- Excellent for cleaning of delicate substrates, removal of oil and grease from valves and moving parts, graphiti removal, fire restoration work, and for cleaning items that cannot tolerate any residual abrasive or substrate damage
- Excellent degreasing qualities
- Used in specialized airblast equipment or pressure washers
- A very specialized water soluble media that is not reusable
- Available in formulations including hard abrasives for more aggressive cleaning and food grade formulations suitable for cleaning food processing equipment

SPECIFICATIONS

- Angular to blocky shape
- MOH hardness: 2.5
- Water soluble
- Non-sparking
- 1 gram/cu. cm. specific gravity

Natrium Products

www.natrium.com

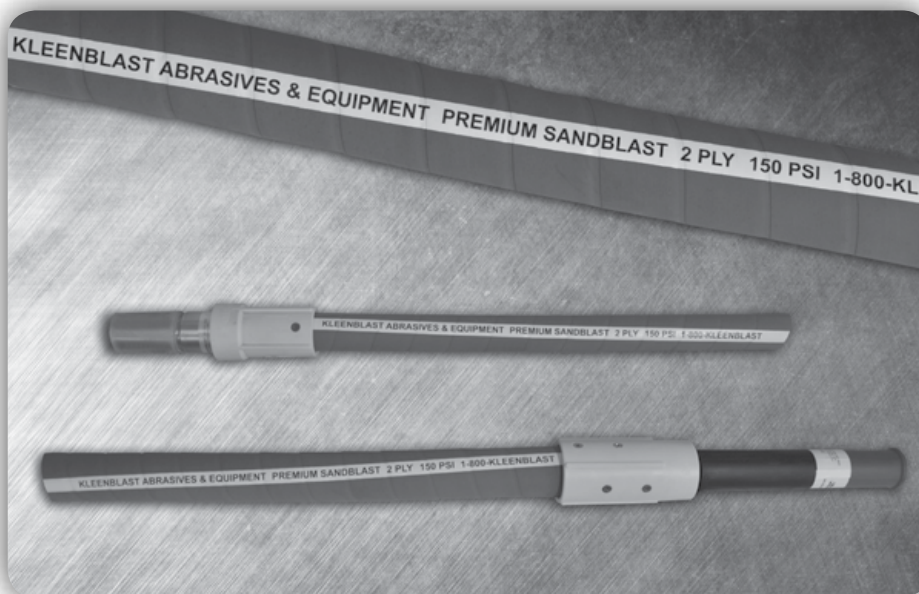
Natrium® is a specialty manufacturer of sodium bicarbonate for the North American market. They produce a high purity sodium bicarbonate, offering standard grades in addition to grades with special large crystals. This results in several grades that are virtually dust free and free flowing without additives, which also have other unique properties.

ULTRA BLUE Flex Hose

WITH YOU TO THE FINISH!



Introducing Kleen Blast ULTRA BLUE Flex Blast Hose



Durability by Design

KleenBlast ULTRABLUE Flex Hose has a uniform SBR rubber liner to provide maximum wear life. Many hose manufacturers use a thinner liner or do not control uniform thickness which may lead to premature hose failure.



 Stock Number	Hose ID	Hose OD
KBBLULTRAFL1"	1"	1-1/2"
KBLUTRFL11/4"	1 1/4"	1-7/8"

All hose available in 50' sections or special order.
Please call our nearest branch for current market pricing.

 With Sizes you need, in stock delivered to your job.
WE KEEP YOU ROLLING!

Call Kleen Blast and we will ship hoses, couplers, nozzles, and other consumables to your job with your abrasives or spent media pick up.

We also do special orders and full container drop ship orders for your Shipyard, Manufacturing Facility, Military or Commercial MRO Facility.

Blast Hoses



ULTRA BLUE

WITH YOU TO THE FINISH!

KLEEN BLAST
ABRASIVES • EQUIPMENT
RENTALS & SPARE PARTS

Introducing Kleen Blast ULTRA BLUE Blast Hose



Durability by Design

KleenBlast ULTRABLUE 4 Ply Hose has a uniform 5/16" SBR rubber to provide maximum wear life. Many hose manufacturers use a thinner liner or do not control uniform thickness which may lead to premature hose failure.

Stock Number	Hose ID	Hose OD
KBBLUEBLAST 3/4	3/4"	1-1/2"
KBBLUEBLAST 1	1"	1-7/8"
KBBLUEBLAST 1-1/4	1 1/4"	2-5/32"
KBBLUEBLAST 1 1/2	1 1/2"	2-3/8"

KBBLUEBLAST 3/4 3/4" 1-1/2"

KBBLUEBLAST 1 1" 1-7/8"

KBBLUEBLAST 1-1/4 1 1/4" 2-5/32"

KBBLUEBLAST 1 1/2 1 1/2" 2-3/8"

All hose available in 50' sections.
1 1/4" and 1 1/2" hose is also available in 100' and 200' sections.
Please call our nearest branch for current market pricing.



With Sizes you need, in stock delivered to your job .
WE KEEP YOU ROLLING!

Call Kleen Blast and we will ship hoses, couplers, nozzles , and other consumables to your job with your abrasives or spent media pick up.

We also do special orders and full container drop ship orders for your Shipyard, Manufacturing Facility, Military or Commercial MRO Facility.

Blast Machine Packages

SCHMIDT BLASTER PACKAGES AND ABRASIVE BLASTERS

Remote Package "A"

Portable blaster, 150 psi (10.3 bar) rated vessel with 90° cone bottom head, with pneumatic remote controls, ComboValve, VBS System, MV2, 55' twinline control hose, G2 Deadman control and moisture separator (blast hose and nozzle not included).

1.5 cu. ft. vessel with 1" piping
Shipping weight: 170 lbs. (38" L x 36" W x 29" H)
Part No. 6001-011-01

3.5 cu. ft. vessel with 1 1/4" piping
Shipping weight: 257 lbs. (38" L x 36" W x 51" H)
Part No. 6001-031-01
Part No. 6001-031-01L (with loadskid)

6.5 cu. ft. vessel with 1 1/2" piping
Shipping weight: 395 lbs. (38" L x 36" W x 56" H)
Part No. 6001-061-01
Part No. 6001-061-01L (with loadskid)



Remote Package "B"

Portable blaster, 150 psi (10.3 bar) rated vessel with 90° cone bottom head, with pneumatic remote controls, VBS System, ComboValve, VBS System, MV2, 55' twinline control hose, G2 Deadman control, moisture separator, 50' blast hose assembly and nozzle.

1.5 cu. ft. vessel with 1" piping, 3/4" blast hose and No. 3 nozzle
Shipping weight: 213 lbs. (38" L x 36" W x 29" H)
Part No. 6001-012-01

3.5 cu. ft. vessel with 1 1/4" piping 3/4" blast hose and No. 4 nozzle
Shipping weight: 300 lbs. (38" L x 36" W x 51" H)
Part No. 6001-032-01
Part No. 6001-032-01L (with loadskid)

6.5 cu. ft. vessel with 1 1/2" piping, 1" blast hose and No. 5 nozzle
Shipping weight: 450 lbs. (38" L x 36" W x 56" H)
Part No. 6001-062-01
Part No. 6001-062-01L (with loadskid)



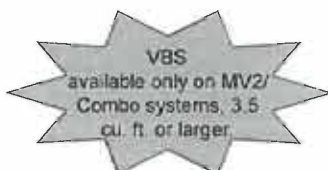
Remote Package "C"

Portable blaster, 150 psi (10.3 bar) rated vessel with 90° cone bottom head, with pneumatic remote controls, ComboValve, VBS System, MV2, 55' twinline control hose, G2 Deadman control, and moisture separator, 50' blast hose assembly, nozzle and a NOVA 2000 NIOSH approved type CE respirator with 50' air supply hose kit and an airline filter.

1.5 cu. ft. vessel with 1" piping, 3/4" blast hose and No. 3 nozzle
Shipping weight: 240 lbs. (38" L x 36" W x 29" H)
Part No. 6001-013

3.5 cu. ft. vessel with 1 1/4" piping, 3/4" blast hose and No. 4 nozzle
Shipping weight: 320 lbs. (38" L x 36" W x 51" H)
Part No. 6001-033
Part No. 6001-033L (with loadskid)

6.5 cu. ft. vessel with 1 1/2" piping, 1" blast hose and No. 5 nozzle
Shipping weight: 470 lbs. (38" L x 36" W x 56" H)
Part No. 6001-063
Part No. 6001-063L (with loadskid)



Vessels shown with optional load skid.
Compressor air supply hose not included. (See page 22).

Blast Machine Packages



MINI BRS



INNOVATIVE ENGINEERING YOU RELY ON.

THE NAME YOU TRUST.

The next generation...



- Can be operated with a 185 cfm compressor
- Cyclone design increases life of dust collector filter
- Integral media screen & blast regulator

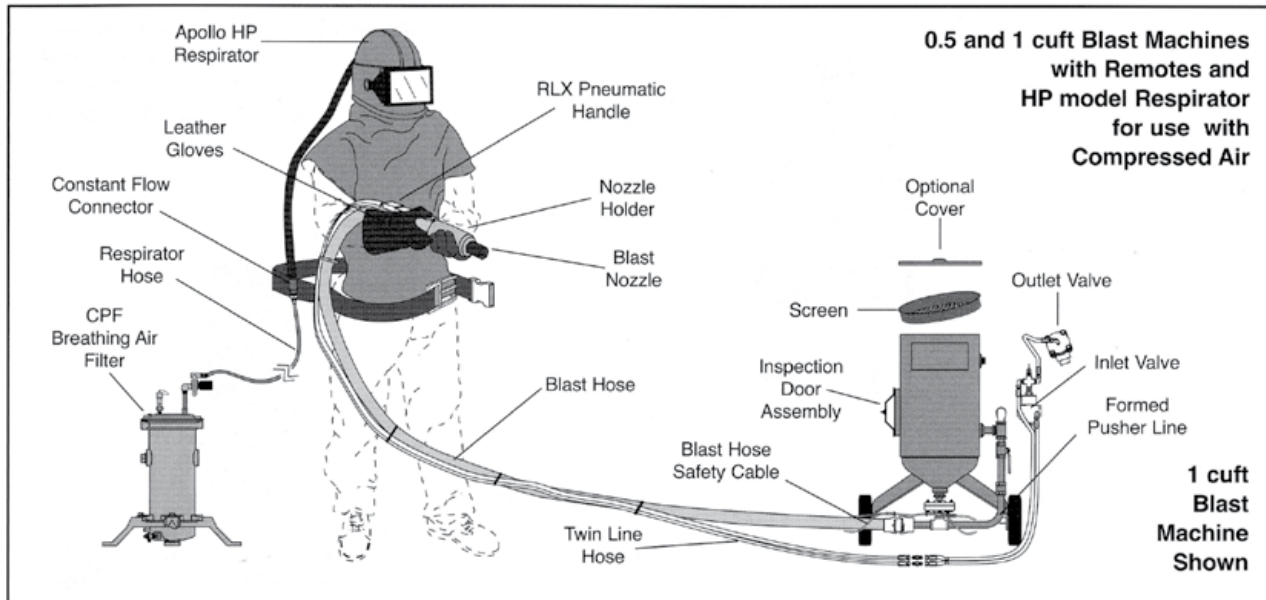
- Simplified dust removal
- Compact design allows easy maneuverability



Blast Machine Packages



0.5 CUFT & 1 CUFT CLASSIC BLAST MACHINE PACKAGES WITH APOLLO HP



The blast machine packages on this page include portable classic-style machines with TLR pneumatic pressure-release remote controls. Pressure-release remote controls depressurize the blast machine whenever the RLX handle is released. Each package includes an **Apollo 20HP helmet for use with compressed air** as the breathing-air source. **All standard classic-style 0.5 and 1.0 cuft blast machines on this page have a working pressure rating of 125 psi.** The blast machine capacity is stated in cubic feet because abrasives vary in their density (number of pounds per cubic foot). For example, slag weighs 100 pounds per cubic foot, while steel grit weighs 250 pounds per cubic foot.

Blast Machine Packages with 1/2" piping include:	Package 1	Package 2
	1028, 10" diameter 0.5 cuft blast machine	1042, 10" diameter 1 cuft blast machine
TLR-50 remote controls (includes 10565 RLX handle)	02518	02518
MSV 1/2" abrasive metering valve	01247	01247
25 ft. X 1/2" ID blast hose, coupled	01268	01268
CHE-1/2 aluminum nozzle holder (included in 01268)	00577	00577
CQA-1/2 aluminum quick coupling (included in 01268)	00599	00599
Blast hose safety cable	15012	15012
1/2" Air filter with manual drain	01308	01308
CT-4 blast nozzle	01353	01353
Blast machine screen (optional steel cover)	03362 (03107)	03362 (03107)
Nylon tie (eight included with system)	02195 (each)	02195 (each)
Apollo 20 HP helmet with Constant Flow Connector	20975	20975
25 ft respirator hose	04397	04397
CPF-20 Breathing air filter	03578	03578
One pair leather gloves	02243	02243
One 25-pack Apollo 20 outer lens	21411	21411
One 10-pack quick coupling gaskets	00850	00850
One 10-pack nozzle washers	21580	21580
Outlet valve diaphragms (three included with system)	02511 (each)	02511 (each)
Stock No. (complete system)	00908	01039

Blast Machine Packages

SCHMIDT BLASTER PACKAGES AND ABRASIVE BLASTERS

10 cu. ft. (285 liter)

Stationary blaster, 150 psi (10.3 bar) rated vessel with 90° cone bottom head, 1½" piping, pneumatic remote controls, ComboValve, MV2, 55' twinline control hose and G2 deadman control, and full load lifting eyes. 2 outlet capability. Shipping weight: approx. 352 lbs./160 kg.

Base Price.....\$4,040.00

OPTIONS

Options that are selected from the following list are combined into quotes for new equipment only. Please refer to the specific part and price when ordering separately.

- Portable (4-wheel design)
- Moisture separator, 1½" for 1 outlet
- Moisture separator, 800 cfm for 2 outlets
- Union End Ball Valve (per outlet)
- Spider, 9"
- Electric Controls (specify voltage)(MV2 only)
- 55' Dragon Cord (replaces standard cord)
- Thompson Valve II with Urethane sleeve, 1½" *pneumatic* with Manual Blowdown.
- Thompson Valve II with Urethane sleeve, 1½" *electric* with Manual Blowdown.
- Additional Thompson Valve II outlet with Urethane sleeve, 1½" *pneumatic* (each).
- Additional Thompson Valve II outlet with Urethane sleeve, 1½" *electric* (each)
- Tungsten Carbide sleeve (per outlet)
- +High Flow Auto Air Valve (1½") (per outlet)
- +Abrasive Cutoff (per outlet) *pneumatic*.
- +Abrasive Cutoff (per outlet) *electric*
- +ASAP System (does not include metering valve or deadman)
- + For Thompson Valve & TVII systems only



20 cu. ft. (570 liter)

Stationary blaster, 150 psi (10.3 bar) rated vessel with 1½" piping, pneumatic remote controls, (vessel remains pressurized), one Thompson Valve II outlet with urethane sleeve, 55' twinline control hose, G2 deadman control, full load lifting eyes, and manual blowdown. (2 outlet capability) Shipping weight: approx. 784 lbs./356 kg.

Base Price.....\$8,580.00

OPTIONS

Options that are selected from the following list are combined into quotes for new equipment only. Please refer to the specific part and price when ordering separately.

- Moisture separator, 1½" for 1 outlet
- Moisture separator, 800 cfm for 2 outlets
- Union End Ball Valve (per outlet)
- Spider, 9"
- Additional Thompson Valve II outlet with Urethane sleeve 1½" *pneumatic* (each)
- Electric Controls (specify voltage) (per outlet)
- 55' Dragon Cord (replaces standard cord)
- +Tungsten Carbide sleeve (per outlet)
- +High Flow Auto Air Valve (1½") (per outlet)
- +Abrasive Cutoff (per outlet) *pneumatic*
- +Abrasive Cutoff (per outlet) *electric*.
- +ASAP System (does not include metering valve or deadman)
- + For Thompson Valve & TVII systems only

ACCESSORIES

(see index for pricing)

- Vessel Lids
- part no.....5010-060.....10 cu. ft.
- 5010-200.....20 cu. ft.
- Vessel Screens
- 1/4" Mesh
- part no.....5011-060.....10 cu. ft.
- 5011-200.....20 cu. ft.
- 3/32" Mesh
- part no.....5011-061.....10 cu. ft.
- 5011-201.....20 cu. ft.

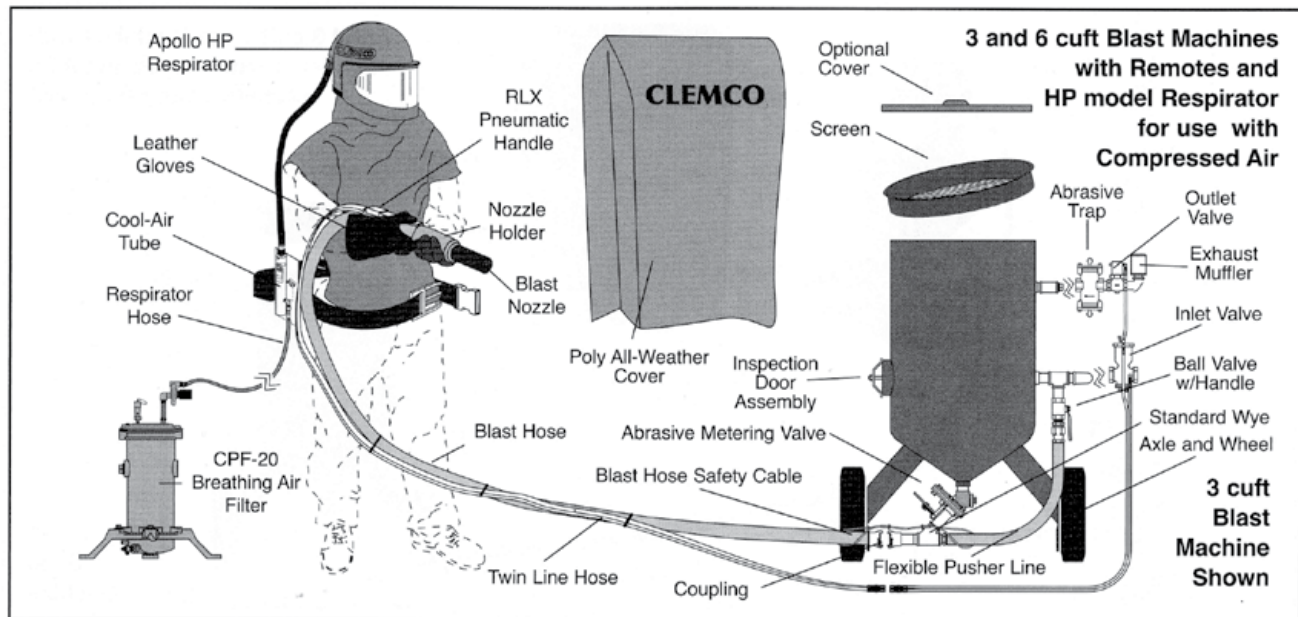


* Vessel shown with optional moisture separator

Blast Machine Packages



3 CUFT & 6 CUFT CLASSIC BLAST MACHINE PACKAGES WITH APOLLO HP



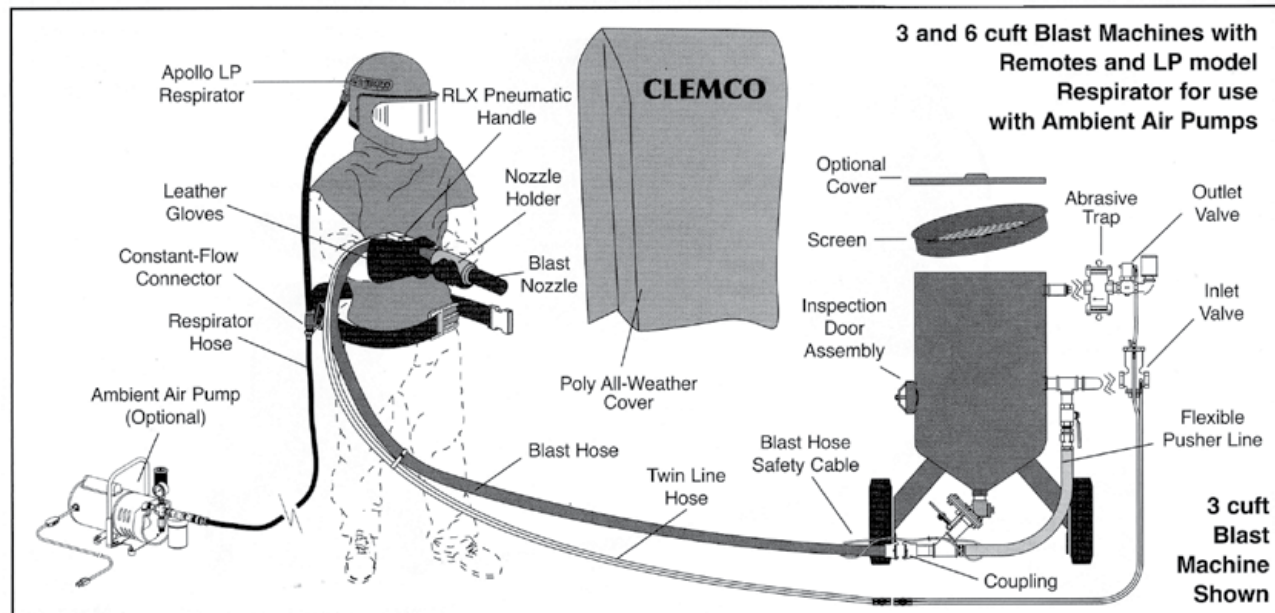
The blast machine packages on this page include portable classic-style machines with TLR pneumatic pressure-release remote controls. Pressure-release remote controls depressurize the blast machine whenever the RLX handle is released. Each package includes an **Apollo 600HP helmet for use with compressed air** as the breathing-air source. **All standard classic-style 3.0 cuft and 6.0 cuft blast machines on this page have a working pressure rating of 150 psi.** The blast machine capacity is stated in cubic feet because abrasives vary in their density (number of pounds per cubic foot). For example, slag weighs 100 pounds per cubic foot, while steel grit weighs 250 pounds per cubic foot.

Blast Machine Packages with 1-1/4" piping include:	Package 5	Package 6
	1648, 16" diameter 3 cuft blast machine	2452, 24" diameter 6 cuft blast machine
TLR-300 remote controls (includes 10565 RLX handle)	01936	01936
abrasive metering valve	02427	02427
50 ft. X 1-1/4" ID blast hose, coupled	23481	23481
NHP-2 Nylon nozzle holder (included in 23481)	04127	04127
CQPS-2 nylon quick coupling (included in 23481)	08413	08413
Blast hose safety cable	15013	15013
1-1/2" Air filter with manual drain	22363	22363
TXP-6 blast nozzle	23525	23525
Blast machine screen (optional steel cover)	03099 (02335)	03100 (02336)
Poly all-weather cover	15097	15143
Nylon tie (eight included with system)	02195 (each)	02195 (each)
Apollo 600 HP helmet with Cool Air Tube	24003	24003
50 ft respirator hose	04415	04415
CPF-20 Breathing air filter with regulator	03578	03578
One pair leather gloves	02243	02243
One 25-pack helmet outer lens	04361	04361
One 5-pack Apollo 600 intermediate lens	24943	24943
One 10-pack quick coupling gaskets	08853	08853
One 10-pack nozzle washers	91026	91026
Abrasive trap screens (six included in system)	02012 (each)	02012 (each)
Stock No. (complete system)	11260	00916

Blast Machine Packages



3 CUFT & 6 CUFT CLASSIC BLAST MACHINE PACKAGES WITH APOLLO LP



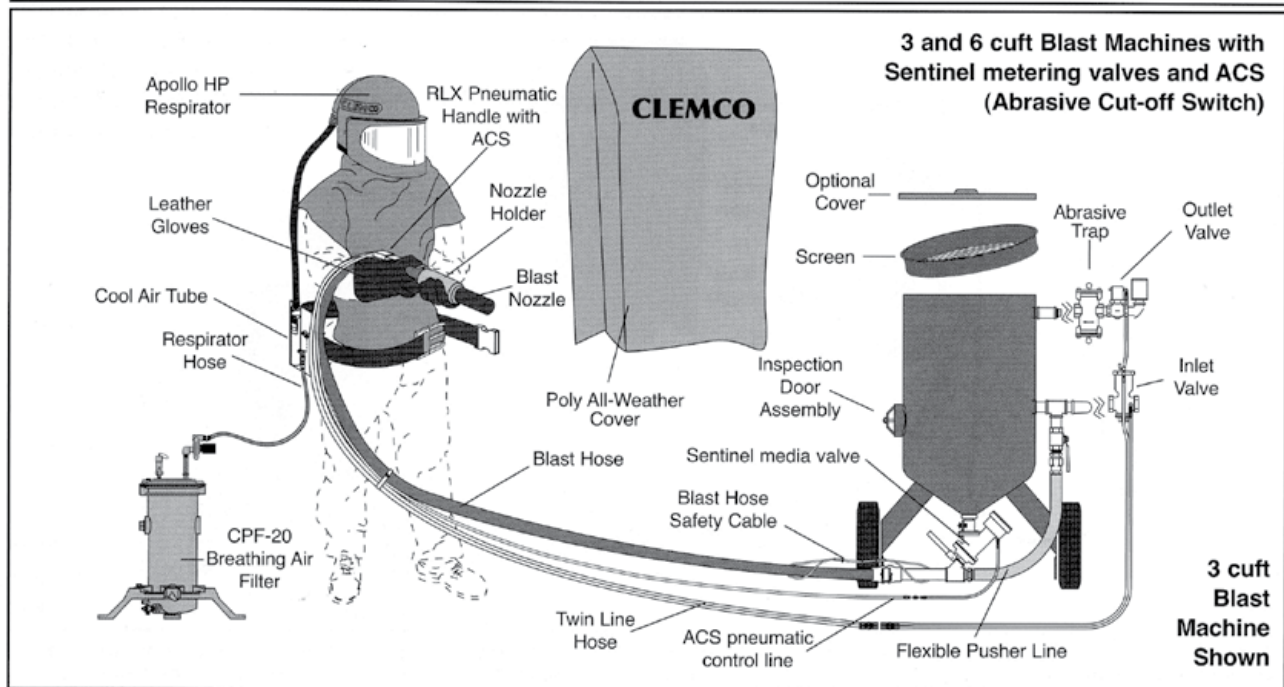
Blast machine packages on this page have TLR pneumatic pressure-release remote controls. Each package also includes an Apollo 600LP helmet for use with an ambient air pump as the breathing-air source. All standard 3.0 and 6.0 cuft blast machines have a working pressure rating of 150 psi. Blast machine capacity is stated in cubic feet because abrasives vary in density. For example, slag weighs 100 pounds per cubic foot, while steel grit weighs 250 pounds per cubic foot.

Blast Machine Packages with 1-1/4" piping include:	Package 5 AA	Package 6 AA
	1648, 16" diameter 3 cuft blast machine	2452, 24" diameter 6 cuft blast machine
TLR-300 remote controls (includes 10565 RLX handle)	01936	01936
FSV abrasive metering valve	02427	02427
50 ft. X 1-1/4" ID blast hose, coupled	23481	23481
NHP-2 Nylon nozzle holder (included in 23481)	04127	04127
CQPS-2 nylon quick coupling (included in 23481)	08413	08413
Blast hose safety cable	15013	15013
1-1/2" Air filter with manual drain	22363	22363
TXP-6 blast nozzle	23525	23525
Blast machine screen (optional steel cover)	03099 (02335)	03100 (02336)
Poly all-weather cover	15097	15143
Nylon tie (eight included with system)	02195 (each)	02195 (each)
Apollo 600 LP helmet with Constant Flow Connector	24010	24010
50 ft respirator hose, coupled	22510	22510
One pair leather gloves	02243	02243
One 25-pack helmet outer lens	04361	04361
One 5-pack Apollo 600 intermediate lens	24943	24943
One 10-pack quick coupling gaskets	08853	08853
One 10-pack nozzle washers	91026	91026
Abrasive trap screens (six included in system)	02012 (each)	02012 (each)
Stock No. (complete system)	23894	23895

Blast Machine Packages



3 CUFT & 6 CUFT CLASSIC BLAST MACHINE PACKAGES WITH ABRASIVE CUT-OFF



Blast machine packages on this page have TLR pneumatic pressure-release remote controls. The machines are equipped with a Sentinel abrasive metering valve with abrasive cut-off switch. Each package also includes an **Apollo 600HP helmet for use with compressed air** as the breathing-air source. **All standard 3.0 and 6.0 cuft blast machines have a working pressure rating of 150 psi.** Blast machine capacity is stated in cubic feet because abrasives vary in density. For example, slag weighs 100 pounds per cubic foot, while steel grit weighs 250 pounds per cubic foot.

Blast Machine Packages with 1-1/4" piping include:	Package 5 ACS 1648, 16" diameter 3 cuft blast machine	Package 6 ACS 2452, 24" diameter 6 cuft blast machine
TLR-300 remote controls (w/o 10565) (with 07625 & 03087)	01936	01936
Sentinel metering valve	20508	20508
50 ft. X 1-1/4" ID blast hose, coupled	23481	23481
NHP-2 Nylon nozzle holder (included in 23481)	04127	04127
CQPS-2 nylon quick coupling (included in 23481)	08413	08413
Blast hose safety cable	15013	15013
1-1/2" Air filter with manual drain	22363	22363
TXP-6 blast nozzle	23525	23525
Blast machine screen (optional steel cover)	03099 (02335)	03100 (02336)
Poly all-weather cover	15097	15143
Nylon tie (eight included with system)	02195 (each)	02195 (each)
Apollo 600 HP helmet with Cool Air Tube	24003	24003
50 ft respirator hose, coupled	04415	04415
CPF-20 Breathing air filter with regulator	03578	03578
One pair leather gloves	02243	02243
One 25-pack helmet outer lens	04361	04361
One 5-pack Apollo 600 intermediate lenses	24943	24943
One 10-pack quick coupling gaskets	08853	08853
One 10-pack nozzle washers	91026	91026
Abrasive trap screens (six included in system)	02012 (each)	02012 (each)
Stock No. (complete system)	23909	23910



Bulk Abrasive Blast Machines

Schmidt Bulk Blasting Systems



Bulk Abrasive Blast Machines



CLEMCO

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, 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 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 best 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.



Standard Features:

- ◆ 150 psi working pressure.
- ◆ 2 outlets, pneumatic pressure-hold remote controls.
- ◆ Fail-to-safe, normally-closed, all-media Auto-Quantum abrasive metering valve that is easy to operate and requires little maintenance.
- ◆ Flexible pusher lines simplify valve maintenance.
- ◆ Media shut-off valves allow servicing individual metering valves leaving others operational. Generous clearance below vessel for valve maintenance.
- ◆ 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.
- ◆ Large 12-inch x 16-inch man-way permits access to pressure vessel chamber for maintenance service.
- ◆ One ladder allows easy access to pop-up valve for machine filling.
- ◆ One hose support bracket for storing blast hose.
- ◆ Heavy-duty lifting eyes mounted on the vessel.
- ◆ Abrasive cut-off feature on the remote controls allow work surface blow-off.
- ◆ 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.

Options:

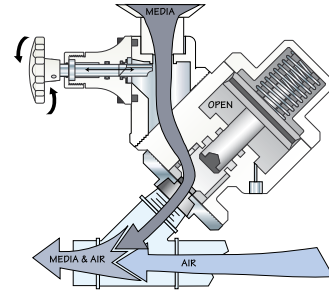
- ◆ Electric remote option includes weather-proof control panel and anti-freeze injector capability.
- ◆ Stationary models for fixed installation are ideal for industrial applications.
- ◆ Yard-towable models offer increased flexibility for moving the unit on site; and highway-towable models are the most versatile offering the convenience of towing the machine to the job site.
- ◆ Optional 160 cuft 8-ton off-shore model with full-load lifting eyes and integral base for super-sack frame.

Bulk Abrasive Blast Machines



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.



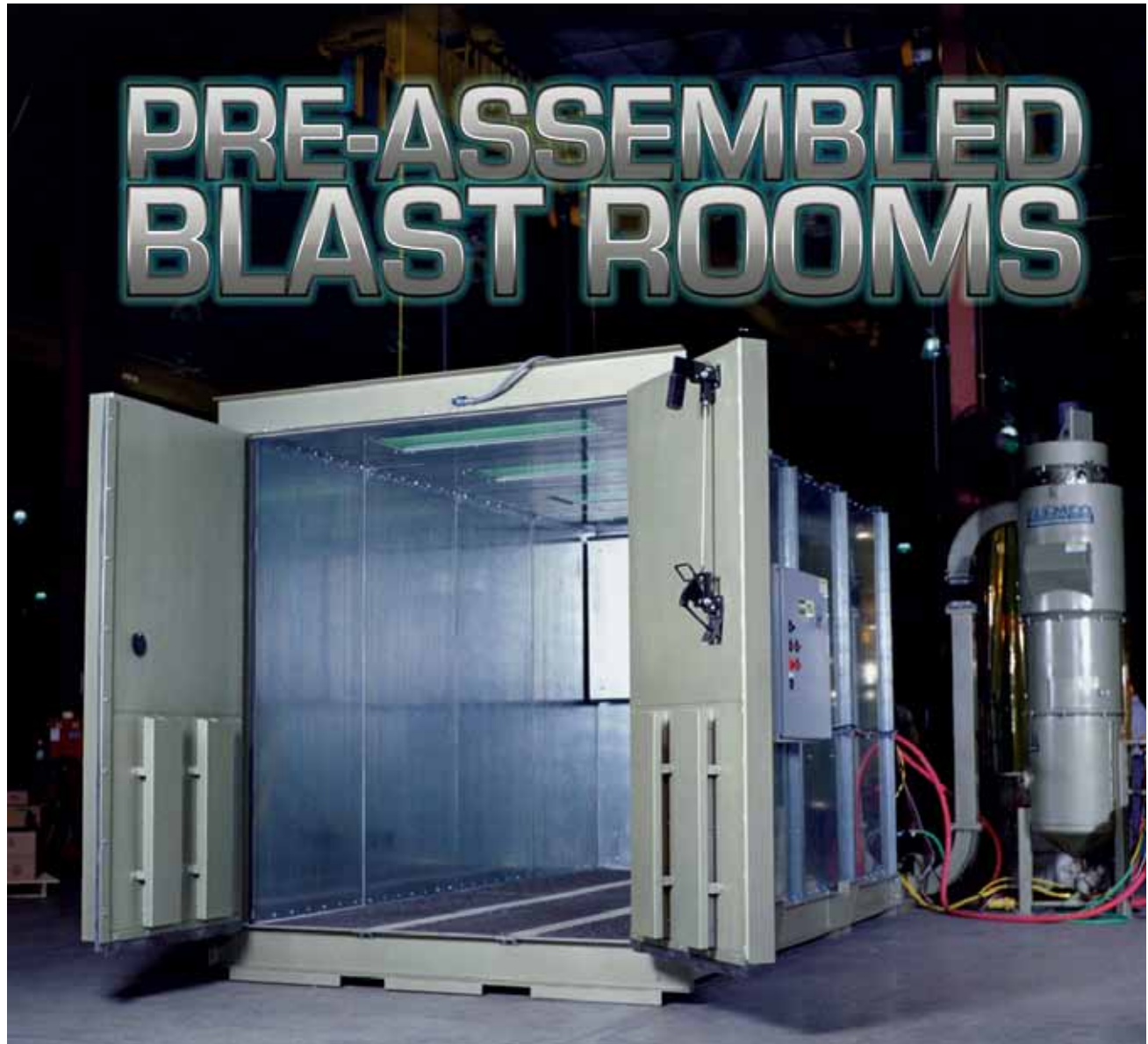
Durable Transport System

- ◆ Big Clems 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	Stationary Stock No.	Yard Portable Stock No.	Highway Towable Stock No.
3 cu ft (3 ton cap., 48" dia.)			
neu. remotes	05100	05101	05102
12V elec. remotes	10815	10816	10817
weight	2,200 lbs.	3,400 lbs.	3,800 lbs.
6 cu ft (6 ton cap., 60" dia.)			
neu. remotes	25746	25745	25744
12V elec. remotes	24626	24627	24625
weight	3,200 lbs.	4,400 lbs.	4,900 lbs.
8 cu ft (8 ton cap., 72" dia.)			
neu. remotes	25743	25742	25741
12V elec. remotes	24623	24624	25802
weight	4,200 lbs.	5,700 lbs.	6,200 lbs.

CLEMCO





INDUSTRIAL

Blast Facilities

by Clemco Industries Corp.

Pre-Assembled Blast Rooms

- ◆ No Pit Required
- ◆ Quickest Set-Up
- ◆ Lowest Total Cost for Complete System
- ◆ Enclosure, Blast Machine, Operator Safety Equipment, Recovery, Reclaimer, and Dust Collector
- ◆ Turnkey or Do-It-Yourself Installation
- ◆ An Industrial Blast Facility

The pre-assembled blast room is built on a rigid structural steel floor, with 10-gauge steel walls and 16-gauge steel ceiling, 1-1/2 inch thick floor grating, and full-height, full-width work doors.

High volume air inlets and a rugged down-flow dust collector combine to create true cross-draft ventilation at 50 fpm to minimize dust clouding inside. Bright fluorescent lighting enhances visibility.

Place the room on any smooth, level floor and install a ramp to minimize site-prep requirements, or install in a pit to make the blast room floor level with your existing floor.

Standard Systems Meet All Blasting Needs

Systems are available with mechanical recovery with airwash abrasive cleaner, or pneumatic recovery with cyclone separator to let you tailor the pre-assembled room to your application.

For most recyclable media, from coarse ALOX to steel grit and shot, choose the Flat-Trak low-profile recovery floor coupled to a bucket elevator and air-wash abrasive cleaner. For fine glass bead and ALOX, or other light-weight media, the M-Section pneumatic recovery floor and cyclonic reclaimer work best.

The standard blast machine package includes a 6 cu. ft. blast machine, flexible Supa blast hose and carbide nozzle, pneumatic remote control system, and an Apollo 600 respirator with CPF air filter. Plastic media, wheat starch, or other lightweight media require a special blast machine with steep cone and accessories to enhance media flow. Special accessories are available to protect components from aggressive media like ALOX.

Dust Collection Designed for Abrasive Blasting

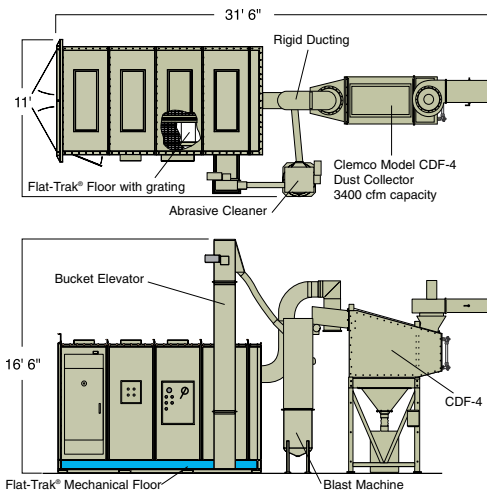
The Clemco Down-Flow dust collector ventilates the blast enclosure and powers the media cleaner. Reinforced pleated-fiber cartridges provide a 2.1-to-1 filter-to-air ratio, trapping particles as small as 0.5 micron. The filters are automatically pulsed clean with compressed air.

Directing exhaust air back into your building reduces heating and cooling costs. Optional HEPA filters virtually eliminate microscopic dust emissions.

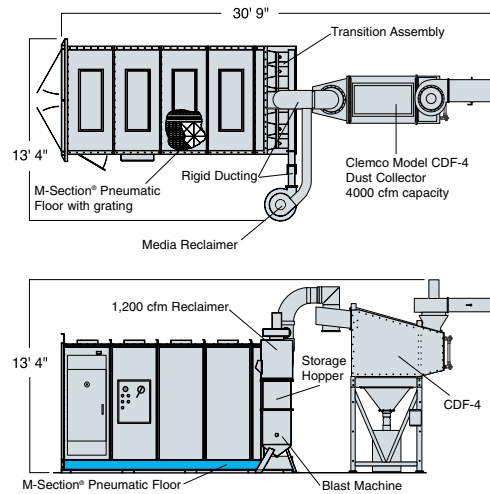
Outstanding Distributor Support

The world-wide network of Clemco Distributors has more than 50 years of experience planning, installing, and maintaining industrial blast equipment. Your authorized Distributor has the trained personnel and a ready inventory of standard parts to keep your blast room operating at peak efficiency.

Blast Rooms



Flat-Trak® Pre-Assembled Blast Room
Recommended for most recyclable media.
Includes low-profile mechanical recovery floor, bucket elevator, and air-wash abrasive cleaner.

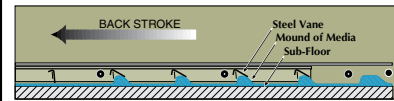
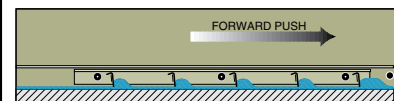


M-Section® Pre-Assembled Blast Room
Recommended for fine glass bead and ALOX, or other lightweight media. Includes pneumatic recovery floor, and cyclone media reclaimer.



Typical M-Section® Pre-Assembled Blast Room

Includes pneumatic recovery floor, cyclone media reclaimer, down-flow dust collector, complete plan drawings, air and electrical specifications, and installation and startup instructions. (Dust collector not shown)



The Flat-Trak® Recovery Floor



The M-Section® Recovery Floor

Blast Booths

New, Pre-Engineered
Air-Blast Booths
Comply with OSHA & EPA,
And Start under \$50K!



Empire's new line of Pre-Engineered Booths (PEB) feature all the essentials contained in blast rooms at a fraction of the cost. These 10'-high booths not only provide the blast punch to strip large parts fast. They also reclaim media, remove dust and breathe fresh air into the work enclosure with Empire's exclusive Booth Ventilation System (BVS). Moreover, they come in 10' x 10', 12' x 17', 12' x 24' and 12' x 31' models, all of which go up easily on a

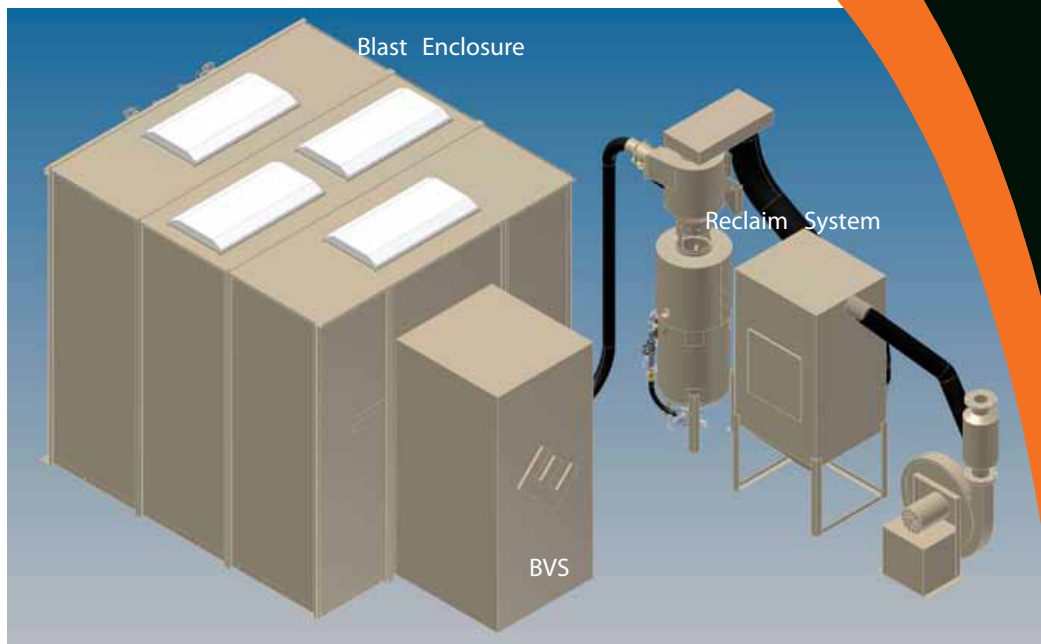
standard plant floor without welding or excavation.

For many applications requiring strict environmental and safety compliance, these Pre-Engineered booths offer an attractive alternative to do-it-yourself enclosures or higher priced blast rooms. Further, all the components—ranging from the central blast and recovery system to the 14 gauge wall and ceiling panels—come from Empire, thus assuring compatibility between various components as well as single-source responsibility for the overall performance of the system.

The partially assembled booth shown below is now complete and will be available for inspection through May 2010.



Blast Booths



These booths feature Empire's pneumatic blast and recovery system (PRS), which continues to prove its value at the heart of many home-grown blast enclosures. The PRS combines fast-working pressure-blast hardware with a media-reclamation system producing 47" of static pressure. To recycle media, workers within the booth simply sweep abrasives and debris up a short ramp into a chute. The PRS does the rest.

To manage ventilation through the blast booth, Empire's proprietary BVS (shown above at booth rear) draws air through door plenums at the front of the booth, then filters out particulates before discharging air into work place.

Other standard features include: double-swing work doors, bright interior lighting and easily accessed electrical controls. Man doors, rubber curtains, rubber flooring and safety equipment join a long list of factory options.

Booth enclosures ship flat to reduce freight costs. Assembly requires no special skills. Bolts pull the panels together and detailed drawings show how. Result: an environmentally compliant, attractively priced and easy-to-install system for stripping large parts — all from Empire, the single source of supply and responsibility.

A complete booth assembly will be available for demonstration on our shop floor in Langhorne through May 2010. Please visit for a first hand inspection.

To learn more about our Pre-Engineered blast booths or any Empire product, please contact your local Empire distributor or Empire directly. Our communications links appear below.



Safety Equipment

CLEMCO



NOVA

Bullard
It's your life and you're worth it.™



OPERATOR SAFETY EQUIPMENT

- RESPIRATORS
- LENSES
- HOSE
- CLIMATE CONTROL
- AIRLINE FILTERS
- AMBIENT AIR PUMP
- CO MONITORS
- PROTECTIVE CLOTHING

Safety Equipment

Bullard
It's your life and you're worth it™

BULLARD OPERATOR SAFETY EQUIPMENT



CAPE



OVAL LENS



BREATHING TUBE
ASSEMBLY



FRIGITRON 2000



HOSE

CATALOG #	DESCRIPTION
Respirator Models. For use with breathing air compressors. Includes EVX30 breathing tube assembly with 1/4" industrial interchange fitting and belt, inner and outer lenses and cape. Breathing air supply hose not included.	
88VX3230	Respirator with 46VX Nylon cape – 28" (71cm) length
88VC3230H	Same as model 88VX3230 with 25' (8m) of starter hose
88VX1330	Same as model 88VX3230 with 13VX Nylon cape – 38" (96cm) length
88VXR3230	Respirator with 46VX Nylon cape – 28" (71 cm) length, rectangular shaped window
For use with Bullard Free-Air® Pumps. Includes EVX35 breathing tube assembly with 1/2" industrial interchange fitting and belt, inner and outer lenses and cape. Breathing air supply hose not included.	
88VXSYS	Includes a 88VX3235 respirator assembly, ADP20 Free-Air® pump, 50 foot (15m) air supply hose and Frigatron® 2000 climate control device
88VX3235	Respirator with 46VX Nylon cape – 28" (71 cm) length
Replacement Capes for 88VX Series Airline Respirators.	
46VX	Tan Nylon cape – 28" (71 cm) length
13VX	Tan Nylon cape – 38" (96 cm) length
21VX	"Golden Gate" style, tan Nylon parka with long sleeves – 38" (96 cm) length
36VX	Hibernia parka, tan Nylon parka with long sleeves – 38" (96 cm) length
36LVX	Hibernia parka, tan Nylon parka with long sleeves – 38" (96 cm) length, extra large
Accessories for 88VX Series Airline Respirators	
88VXTG	Adjustable headband suspension
88VXRT	Adjustable Sure-Lock® ratchet headband suspension
88VXRAK	Rectangular door/gasket/latch kit
88VXAK	Oval door/gasket/latch kit
88VXUGK	88 upgrade kit
20NC	Elastic chin strap
99PL	Inner shell
88CK	Breathing tube connector kit
Replacement lenses for 88VX series (oval)	
771B	Inner plastic lens, .040" (1 mm) thick (25pkg)
771	Outer plastic lens, .040" (1 mm) thick (25pkg)
771	Outer plastic lens, .020" (0.5 mm) thick (50pkg)
88VXLC	Clear Mylar LENS cover, perforated edges (25pkg)
Replacement lenses for 88VXR series (Rectangular)	
461B	Inner plastic lens, .040" (1 mm) thick (25pkg)
461	Outer plastic lens, .040" (1 mm) thick (25pkg)
461R	Outer plastic lens, .015" (0.4 mm) thick (50pkg)
771R	Outer plastic lens, .015" (0.4 mm) thick (50pkg)
7714	Clear Mylar lens cover, adhesive-backed (25pkg)
Replacement Breathing Tube Assemblies includes breathing tube, airflow control, quick-disconnect fitting and belt	
STANDARD Breathing Tube Assemblies	
EVX30	Breathing tube assembly with 1/4" industrial interchange, steel quick-disconnect fitting. Constant airflow. For use with breathing air compressors.
EVX40	Breathing tube assembly with 1/4" industrial interchange, steel quick-disconnect fitting. Adjustable airflow. For use with breathing air compressors.
EVX35	Breathing tube assembly with 1/2" industrial interchange, steel quick-disconnect fitting. Constant airflow. For use with ambient air pumps.
88VXBT	Breathing tube only (fitting not included)
OPTIONAL Climate Control Breathing Tube Assemblies	
AC100	Cool tube with 1/4" industrial interchange, steel quick-disconnect fitting. Adjustable airflow. For use with breathing air compressors.
HC2400	Hot/cold tube with 1/4" industrial interchange, steel quick-disconnect fitting. Adjustable airflow. For use with breathing air compressors.
Frigitron 2000	Cool tube with 1/2" industrial interchange, steel quick-disconnect fitting. Adjustable airflow. For use with Bullard ADP20 or EDP30 pumps.
DC5040	Dual-Cool™ with 1/4" industrial interchange. For use with air compressors. Order Dual-Cool vests separately.
DC70M/L	Dual-Cool vest. Size M/L.
DC70XL/XXL	Dual-Cool vest. Size XL/XXL.
Air Supply Hoses and Fittings V10 Series Starter and Extension Hose Kits for use with breathing air compressors. Includes 3/8" (10 mm) I.D. rubber hose, V11 hose-to-hose adapter fitting and V13 adapter fitting – 3/8" (10 mm) hose-to-3/8" (10mm) pipe.	
4696	25' (8 m) starter hose kit with 1/4" industrial interchange, steel quick-disconnect fittings
5454	25' (8 m) extension hose kit
5457	50' (15 m) extension hose kit
5458	100' (31 m) extension hose kit
V5 Series Coiled Starter Hoses for use with breathing air compressors. Includes 3/8" (10 mm) I.D. Nylon coiled hose.	
V52530	25' (8 m) with 1/4" industrial interchange, steel quick-disconnect fitting.
V55030	50' (15 m) with 1/4" industrial interchange, steel quick-disconnect fitting.
V20 Series Starter Hoses for use with free-air pumps. Includes 1/2" (13 mm) I.D. rubber hose with 1/2" industrial interchange male/female quick-disconnect coupler.	
V2050ST	50' (15 m)
V20100ST	100' (31 m)

*Noted: Other types of quick-disconnect couplers are available. Contact your International Surface Preparation Customer Service Representative for further information.

Safety Equipment

Bullard
It's your life and you're worth it™

BULLARD OPERATOR SAFETY EQUIPMENT



41A



41P2 / 41P2E



41P6



EDP10



FAMBSYS



20SYS



SPECSYS



GR50SYS



88SYS

CATALOG #	DESCRIPTION
Replacement Parts	
41AF	Replacement filter cartridge
41P6UPK	6-outlet manifold upgrade (includes manifold, regulator assembly, relief valve, and gauge) for 41P6
41P2M	2-outlet manifold assembly (includes manifold with regulator, relief valve and gauge) for 41P2 and 41P2E
41PRV	Pressure relief valve for 41P2, 41P2E, and 41P6/41P6WM airline filters. Set at 125 psig (8.6 bar)
41RG	Regulator gauge for 41P2, 41P2E, and 41P6 airline filters
41P2R	41P2 regulator and assembly (for use with flat top design only)
41EAK	European adapter kit for 41P2E containing (1) 1" (25 mm) x 3/4" (19 mm) pipe reducing bushing, (1) 3/8" (7 mm) x 1/4" (6 mm) reducing bushing and (2) 1/4" (6 mm) British thread adapters
Bullard Airline Filters	
41A	Single-outlet filter. Pressure gauge, relief valve, and pressure regulator not included
41P2	2-outlet filter with pressure gauge, relief valve, pressure regulator and hose adapter fitting
41P6	6-outlet filter with pressure gauge, relief valve, pressure regulator and hose adapter
41P6WM	6-outlet filter with wall-mount bracket, pressure gauge, relief valve, pressure regulator and host adapter fitting
41P2E	2-outlet filter with pressure gauge, relief valve, pressure regulator, and hose adapter fitting, plus adapters suitable for European threaded connections
Complete Units	
EDP10	Electric driven air pump
EDP16TE	Electric driven air pump
EDP16HAZ	Electric driven air pump (hazardous duty motor)
EDP30	Electric driven air pump
EDP50	Electric driven air pump
ADP20	Air driven air pump
Respiratory Work Systems	
MB30SYS	EDP10 with MB30 respirator and 100' of breathing air hose
FAMBSYS	EDP10 with FAMB respirator and 100' of breathing air hose
GR50SYS	EDP10 with GR50 respirator and 100' of breathing air hose
SPECSYS	EDP10 with SPEC35L respirator and 100' of breathing air hose
20SYS	EDP10 with CC20TIC respirator and 100' of breathing air hose
88SYS	ADP20 with 88 Series respirator, 50' of breathing air hose, and Frigatron® 2000 climate control device
Parts and Accessories for all Free-Air® Pumps	
23611	Inlet filter
S17101	Outlet filter cartridge. Carbofine
S17931	Cleaning solvent, 14 oz. aerosol can
V22	Quick-disconnect coupler adapter. Converts pump quick-disconnect coupler to double 3/8" female NPT
V23	Quick-disconnect coupler adapter. Converts pump quick-disconnect coupler to single 3/8" female NPT
V24	Quick-disconnect coupler splitter adaptor. Converts pump quick-disconnect coupler to double 1/2" industrial interchange coupler (one flow-thru, one shut-off)
V50IN	Remote inlet air hose kit, 50 feet (one per pump)
V50EX	Remote extension hose kit, 50 feet (five per pump maximum)
Parts and Accessories for Models EDP10, EDP16TE and EDP16HAZ	
15921	Service kit, EDP10 includes four carbon vanes, inlet and outlet filters and gasket
15922	Service kit, EDP16TE and EDP16HAZ includes four carbon vanes, inlet and outlet filter and gasket
244852	Outlet filter jar
S16191	Quick-disconnect coupler, 1/2" industrial interchange, EDP16TE and EDP16HAZ
S16483	Quick-disconnect coupler, 1/2" industrial interchange, EDP10
S19681	Pressure gauge, 0-15 psig, EDP10
S19683	Pressure gauge, 0-30 psig, EDP16TE and EDP16HAZ
Parts and Accessories for Models EDP30 and EDP50	
15924	Service kit, includes four carbon vanes and bearings
26781	Remote pod, EDP30 includes six quick-disconnect coupler, pressure gauge, pressure relief valve and outlet filter cartridges
26782	Remote pod, EDP50 includes six quick-disconnect coupler, pressure gauge, pressure relief valve and outlet filter cartridges
28151	Pressure relief valve, EDP30
28152	Pressure relief valve, EDP50
S16481	Quick-disconnect coupler, 1/2" industrial interchange
S19681	Pressure gauge, 0-15 psig
S19683	Pressure gauge, 0-30 psig
V60	Pod extension hose, 100 foot, 1 1/4" I.D. (three per pod maximum)
Parts and Accessories for Model ADP20	
244852	Outlet filter jar
15922	Pump service kit includes four carbon vanes, 23611 inlet filter and S17101 outlet filter cartridge
17761	Air motor service kit includes four carbon vanes, motor bearings, vane springs and seal
21052	Conversion kit. Includes parts and instructions to convert ADP16 or ADP3CA pumps to ADP20
S09853	Pressure gauge, motor, 0-200 psig
S16222	Pressure gauge, motor, 0-30 psig

Safety Equipment

NOVA

rpb respiratory
MODULAR ADVANTAGE

NOVA OPERATOR SAFETY EQUIPMENT

NOVA 2000 ABRASIVE BLASTING HELMET



AIR QUALITY MANAGEMENT

PART #	DESCRIPTION
NV-NV-3000-01	Airline Filter Complete For 2 Man With Adjusting Regulator, Pressure Gauge And Relief Valve
NV-NV-3100-07	Air Filter Replacement Cartridge
NV-NV-AFC100	Clemco CPF Replacement Cartridge

NOVA

PART #	DESCRIPTION
NV-NV2000	Complete Hood With Cape, Breathing Tube And Air Control Valve
NV-NV2000HC	Complete Hood With HC Tube
NV-NV2002	Nylon Respirator Cape
NV-NV-2012	Detachable Inner Bib For Cape

INNER LENSES

PART #	DESCRIPTION
NV-NV2018	Inner Lens 10/pkg
NV-NV2018-50	Inner Lens 50/pkg

OUTER LENSES

PART #	DESCRIPTION
NV-NV2031	Outer Lenses 50/pkg
NV-NV2031-500	Outer Lenses 500/pkg

HOOD PARTS

PART #	DESCRIPTION
NV-NV2003	Window Frame Gasket
NV-NV2004	Visor
NV-NV2008	Latch & Screws
NV-NV2009/10	Helmet Lining Kit
NV-NV2009	Sidewings Medium Standard (Pair)
NV-NV2009SH	Small Head (Pair)
NV-NV2009LH	Large Head (Pair)
NV-NV2010	Medium Head Dome Standard
NV-NV2010SH	Small Head Dome
NV-NV2010LH	Large Head Dome
NV-NV2013	Cape Cover Band
NV-NV2020	Belt Buckles
NV-NV2022	Belt With Buckles

BREATHING AIR SUPPLY HOSE

PART #	DESCRIPTION
NV-NV2028	25'
NV-NV2029	50' (includes quick disconnect) Breathing Air Supply Hose Fittings
NV-NV2024	Quick Release Tail
NV-NV2025	Quick Release Coupler

BREATHING TUBE ASSEMBLY & ACCESSORIES

PART #	DESCRIPTION
NV-NV2023	Adjustable Tube/Control Valve HC Tube
NV-NV2016	Adjustable Valve & Belt Assembly
NV-NV2021	Breathing Tube *New Style Breathing Tube
NV-NV2006	New Style Nut & Tail
NV-NV2005	Inner Airtube & Washer *Not To Be Used NV2021

TEAR OFF LENSES

PART #	DESCRIPTION
NV-NV-2017	Outer Tear Off 50/pkg
NV-NV-2017-200	Outer Tear Off 200/pkg

Safety Equipment

APOLLO 600 HIGH PRESSURE SUPPLIED-AIR RESPIRATOR

NOTE: For use with compressed air source.

Description **Stock No.**

(-) Apollo 600 HP less respirator hose with:

Constant-flow connector24001
 Air-control valve24002
 Cool-air tube24003
 Climate-control tube.....24004

(-) Apollo 600 HP with 50 ft. respirator hose and:

Constant-flow connector24771
 Air-control valve24210
 Cool-air tube24211
 Climate-control tube.....24212

(-) Apollo 600 HP with 50 ft. respirator hose, CPF-20 air filter and:

Constant-flow connector24772
 Air-control valve24213
 Cool-air tube24214
 Climate-control tube.....24215

(-) Do-rag, Clemco23814

(-) Conversion Kit,

Apollo 600 HP to LP22079

1. Air control valve100024

2. Belt assembly, 2"04430

3. Respirator hose,
 3/8" x 25' (incl 00022 & 01020)
 [optional]04397

4. Respirator hose,
 3/8" x 50' (incl 00022 & 01020)
 [standard]04415

5. Respirator hose,
 3/8" x 100'
 (incl 00022 & 01020) [optional] ..04398

6. Adaptor,
 3/8" hose to 3/8" pipe00022

7. Union, 3/8" hose
 to 3/8" hose01020

8. Disconnect, 1/4" female00025

9. Adaptor,
 3/8" hose to 1/4" pipe01019

10. Acoustical foam kit,
 sides04369

11. Gasket, window23819

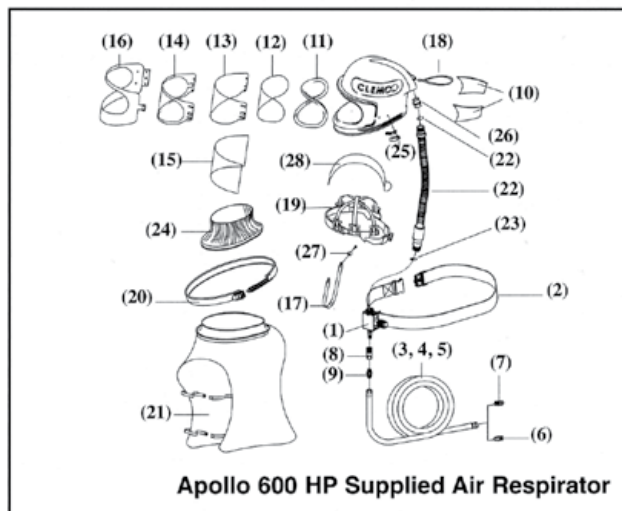


NOTE: Value-pack lenses are listed on page 62.

12. Inner lens, .040"
 (pk of 5)04367

13. Intermediate lens, .020"
 (pk of 5)24943
 (pk of 25)04373

14. Outer lens, .0075",
 perforated (pk of 25).....04361



- Apollo 600 HP Supplied Air Respirator**
- 15. Rectangular outer lens,
 .015" non-perf.,
 (pk of 25), optional24005
 - 16. Window frame
 assembly24012
 - 17. Chin strap04460
 - 18. Handle strap03623
 - 19. Suspension.....23802
 (-) Metal clips, (pk of 4)
 not shown24773
 - 20. Cape attachment strap23801
 - 21. Cape, silver-grey, with red
 inner collar23818
 - 22. Breathing tube
 w/swivel ends22811
 - 23. O-ring, 11/16" ID
 x 7/8" OD, 2 required22815
 - 24. Inner collar08740
 - 25. Window latch kit,
 incl: base and screws.....24006
 - 26. Inlet fitting23804
 - 27. Chin strap holder kit
 w/fasteners24008
 - 28. Partition, air baffle.....23811

NOTE: THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS ASSIGNED APOLLO HELMETS A PROTECTION FACTOR OF 1,000 TIMES THE EXPOSURE LIMIT FOR LEAD DUST.

APPLICATION ALERT

Above respirators ARE NOT approved for use in any atmosphere immediately dangerous to life or health or from which the wearer cannot escape without the aid of the respirator. Before using any respirator, make sure that any airborne contaminants ARE NOT in concentrations that are in excess of those allowed by applicable OSHA or EPA regulations or NIOSH recommendations. Consult the product literature and owner's manuals for information concerning the proper function, use, and maintenance of these respirators.

Safety Equipment

APOLLO 600 LOW PRESSURE SUPPLIED-AIR RESPIRATOR

Description **Stock No.**
NOTE: For use with ambient air pump.

Apollo 600 LP less respirator hose with:
Constant-flow connector24010

Apollo 600 LP with 50 ft respirator hose and:
Constant-flow connector.....24011

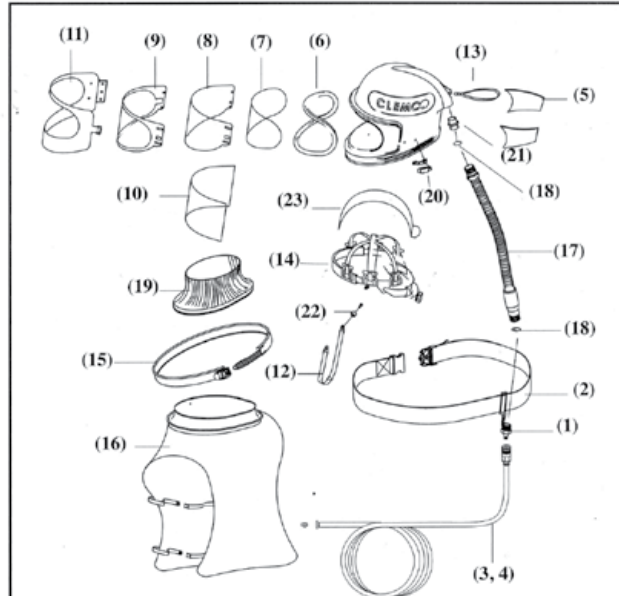
(-) Do-rag, Clemco23814
(-) Conversion Kit
Apollo 600 LP to HP22080

1. Constant-flow connector w/o belt.....21429
2. Belt assembly, 2"04430
3. Respirator hose, 1/2" x 50' [standard]22510
4. Respirator hose, 1/2" x 100' [optional]21413
5. Acoustical foam kit, sides04369
6. Gasket, window.....23819



NOTE: Value pack lenses are listed on page 62.

7. Inner lens, .040", (pk of 5).....04367
8. Intermediate lens, .020", (pk of 5).....24943
9. Outer lens, .0075", perforated (pk of 25)04361
10. Rectangular outer lens, .015", non-perf., pks of 25, optional.24005
11. Window frame assembly.....24012
12. Chin strap04460
13. Handle strap03623
14. Suspension23802
- (-) Metal clips (pk of 4) not shown24773
15. Cape attachment strap ..23801
16. Cape, silver-grey, with red inner collar23818
17. Breathing tube w/swivel ends22811
18. O-ring, 11/16" ID x 7/8" OD, 2 required22815
19. Inner collar08740
20. Window latch kit, incl: base and screws24006



Apollo 600 LP Supplied-air Respirator

Description	Stock No.	Price	Disc.	Wt
21. Inlet fitting	23804	\$1.10	D	<.5
22. Chin strap holder kit w/fasteners	24008	\$4.50	D	1
23. Partition, air baffle	23811	\$2.60	D	<.5

NOTE: THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS ASSIGNED APOLLO HELMETS A PROTECTION FACTOR OF 1,000 TIMES THE EXPOSURE LIMIT FOR LEAD DUST.

APPLICATION ALERT

Above respirators ARE NOT approved for use in any atmosphere immediately dangerous to life or health or from which the wearer cannot escape without the aid of the respirator. Before using any respirator, make sure that any airborne contaminants ARE NOT in concentrations that are in excess of those allowed by applicable OSHA or EPA regulations or NIOSH recommendations. Consult the product literature and owner's manuals for information concerning the proper function, use and maintenance of these respirators

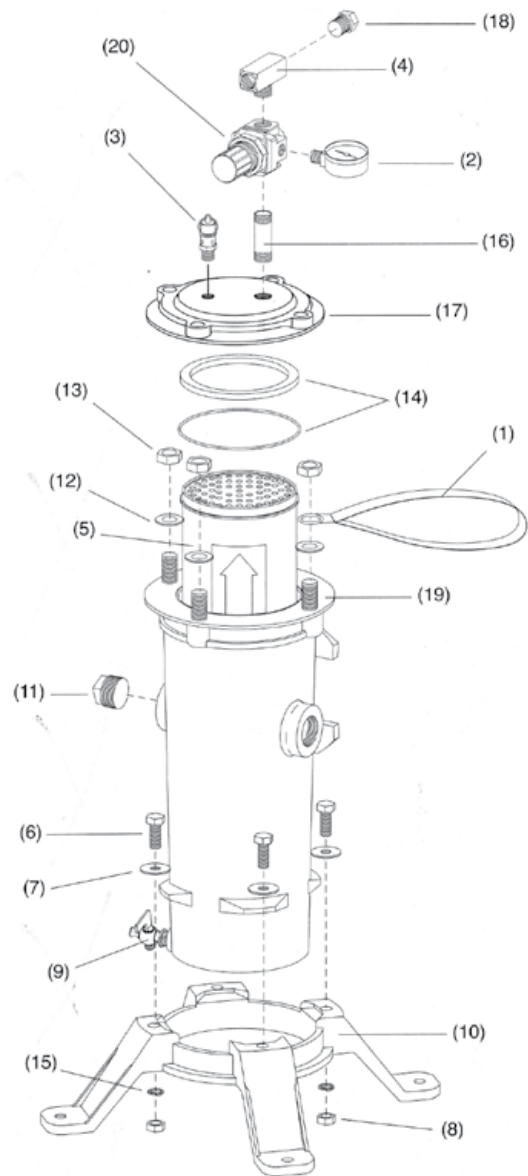
Safety Equipment

CPF-20 BREATHING AIR FILTER FOR HP MODEL RESPIRATORS

APPLICATION ALERT

CPF breathing air filters do not remove carbon monoxide (CO).

Description	Stock No.
(-) CPF-20 Breathing Air Filter with regulator03578	
(-) CPF-20 Breathing Air Filter without regulator03577	
(-) Filter cartridge adaptor kit: permits use of 03547 air filter cartridge on filter models 41-AO, 41-P4, AAF03569	
1. Handle strap03623	
2. Pressure gauge00024	
3. Pressure relief valve01909	
4. *Tee, 3/8" NPT, male branch22843	
5. Filter cartridge03547	
6. 3/8" NC x 1" hex head cap screw03252	
7. Washer, 3/8" ID x 1-1/4" OD03310	
8. 3/8" -NC hex nut03311	
9. 1/4" petcock01993	
10. Base bracket03557	
11. Pipe plug, 1" NPT03532	
12. 1/2" SAE flat washer03515	
13. 1/2" -NC hex nut03511	
14. Gasket and o-ring kit08942	
15. 3/8" dia. lock washer03318	
16. Nipple, 3/8" NPT x 2", brass03720	
17. Air filter cap03584	
18. *Plug, 3/8" NPT, brass03536	
19. Stud, filter cap03545	
20. *Pressure regulator03594	
(-) Regulator kit includes items noted with asterisk.....03582	



CPF-20 Air Filter

Safety Equipment

CPF-80 BREATHING AIR FILTER FOR HP MODEL RESPIRATORS

APPLICATION ALERT

CPF breathing air filters do not remove carbon monoxide (CO).

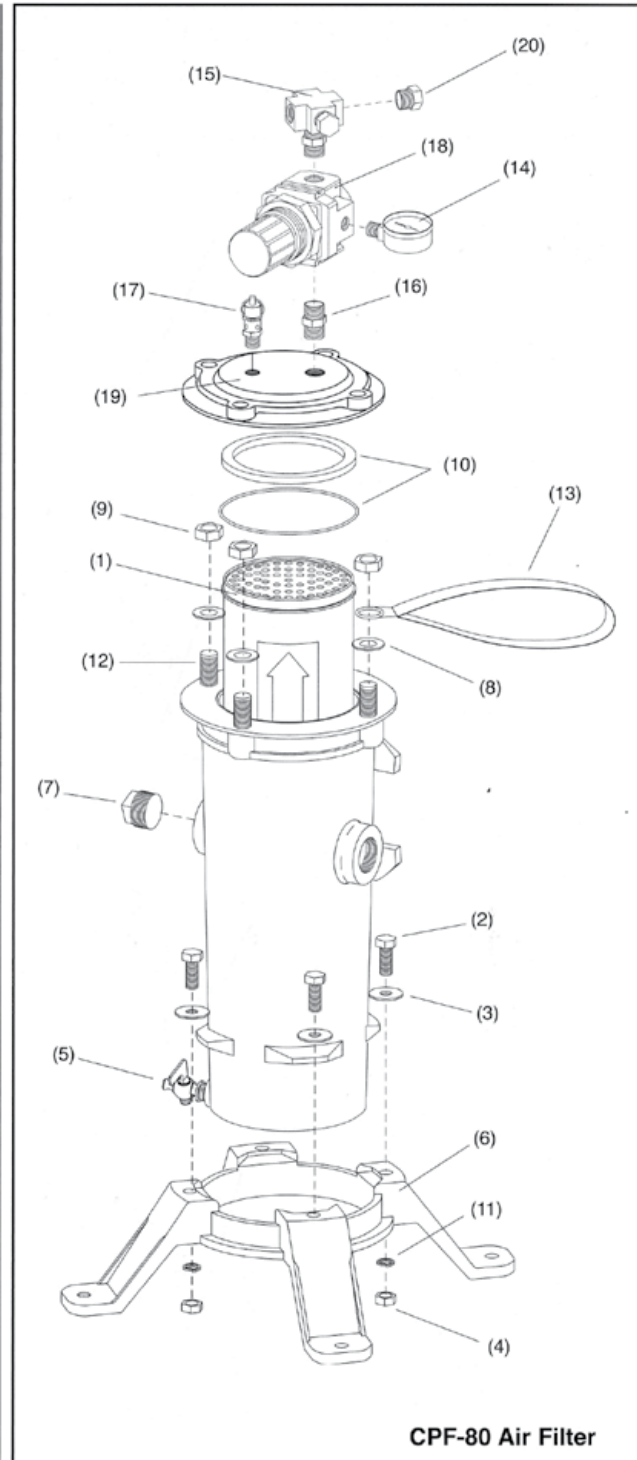
Description	Stock No.
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(-) CPF-80 Breathing Air Filter with regulator	03527
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(-) Filter cartridge adaptor kit: permits use of 03547 air filter cartridge on filter models 41-AO, 41-P4, AAF	03569
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(-) Pressure regulator conversion kit includes those items noted with asterisk (converts old style CPF-80 cap to new style	23477
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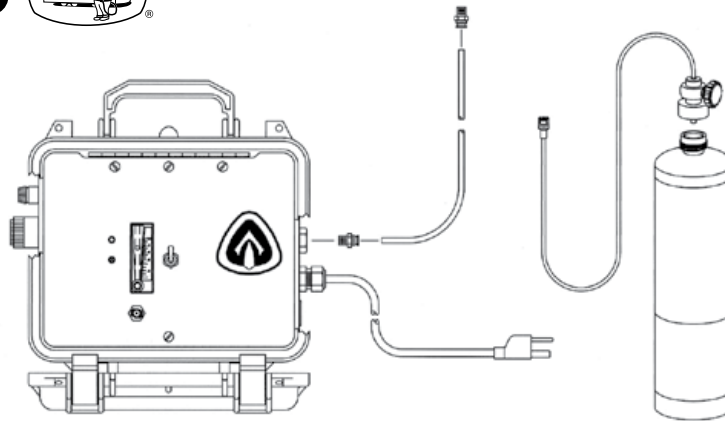
1. Cartridge, CPF filter03547
2. Cap screw, 3/8-NC x 1" hex head03252
3. Washer, 11/4" OD03310
4. Nut, 3/8-NC03311
5. Petcock, 1/4"01993
6. Base bracket03557
7. Plug, 1" NPT03532
8. Washer, 1/2" SAE flat03515
9. Nut, 1/2-NC03511
10. Gasket and O-ring kit08942
11. Washer, 3/8" lock03318
12. Stud, 1/2-NC x 2"03545
13. *Handle strap03623
14. Pressure gauge00024
15. *Cross manifold, 3/8" NPT22941
16. Nipple, 3/8" NPT hex03596
17. Relief valve, 1/4" NPT....01909
18. *Pressure regulator, 3/8" NPT large body22939
19. *Cap, CPF filter03584
20. Plug, 3/8" NPT brass03536



Safety Equipment

CO MONITORS

CLEMCO

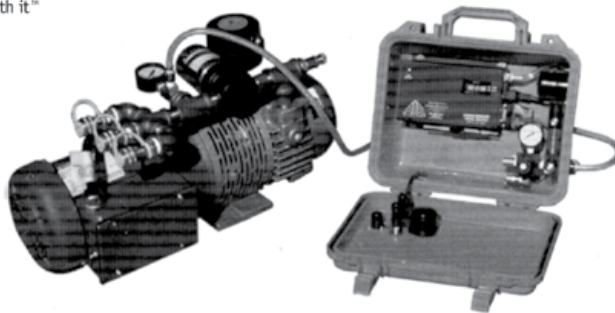


CMS-1 AND CMS-2 DETECTING CARBON MONOXIDE

Carbon monoxide (CO) is odorless, colorless, and deadly. The Clemco CMS-1 and CMS-2 continuously sample the breathing air supply and sound an alarm if CO concentrations exceed safe levels.

- Wall mounted CMS-1 for industrial applications
- Portable CMS-2 for contractor job-site
- Factory set to trigger at 10 ppm - alerts to CO as low as 2 ppm
- State-of-the-art electronics and sensors simplify calibration
- One CMS system serves all operators connected to that air source
- Output leads let you generate a permanent record of CO levels or monitor the CMS from a remote panel, PC, or strip printer

Bullard
It's your life and you're worth it™



COMMANDAIR® ALERT-1™ CARBON MONOXIDE MONITORS

This compact, durable unit easily connects to any high-pressure or low-pressure compressed breathing air source (ambient air pump connection kit included). The monitor is factory set to sound a 93 dB alarm when CD level exceeds 10 ppm, the OSHA limit. External operation lights show green for normal and red for alarm for easy visual monitoring. An alarm jack to allow connection to remote alarm devices is standard. Units operate on twin 9-volt battery or 115-volt AC power.

Safety Equipment

CLEMCO 



Apollo Ambient Air Pump

Model CAP-1
 Stock No. 22383

The Apollo Ambient Air Pump, model CAP-1, is a cost-effective alternative to a breathing-air compressor. It provides an oil-free air supply for low-pressure, type CE, supplied-air respirators used for abrasive blasting or for any NIOSH-approved continuous flow hood or helmet-style respirator approved to operate at 10 psi or less. [Note: Clemco offers 4-operator model, CAP-4, Stock No. 22384 or 22530. See data sheet No. 21999.]

Specifications

- Air flow output: 9 cfm at 10 psi
- 3/4 hp thermally protected 110/115-volt motor
- Oil-free air pump with 3/8-inch NPT inlet and outlet
- Adjustable pressure-relief valve
- Pressure gauge
- Inlet Filter: Multi-layer disposable cloth element with wire inner and outer support
- Outlet Filter: activated charcoal

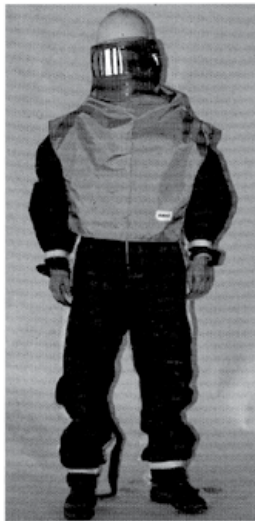
Replacement Parts

Item Description	Stock No.
1. Filter media, inlet..	21830
2. Filter cartridge, outlet	15030
3. Gasket, outlet filter bowl	21831
4. Gauge, 1/4-inch NPT pressure, 0-30 psi.	21832
5. Relief valve	25333
6. Disconnect, 3/8-inch NPT	1834
7. Vanes, set of 4	21835
8. Inlet filter assembly	21836

CLEMCO



PROTECTIVE CLOTHING



Industrial Blast Suit

HEAVY DUTY BLAST SUITS

Heavy cotton fabric back, durable leather front, double rows of industrial snaps protect from rebound and keeps out dust and abrasive.

Description	Stock No.
Blast Suit (S)	08920
Blast Suit (M)	08921
Blast Suit (L)	08922
Blast Suit (XL)	08923
Blast Suit (XXL)	24201
Blast Suit (XXL)	24202

LIGHT WEIGHT BLAST SUITS

Protects the operator from the impact of rebounding abrasive. Represents a cost-effective alternative to an industrial suit for occasional or short term blasting and for nearby personnel.

Description	Stock No.
Blast Suit (S)	22913
Blast Suit (M)	22914
Blast Suit (L)	22915
Blast Suit (XL)	22916
Blast Suit (XXL)	22917
Blast Suit (XXL)	25022



Seasonal Blast Suit

LEATHER GLOVES

Description	Stock No.
Leather Gloves	02243

HEARING PROTECTION

Description	Stock No.
Ear muffs, low profile, for use with Apollo 20, 60 and 600 helmets (fits most), noise-reduction rating 21 dB, CSA Class B	22913

**Call for our safety catalog to review more items.
 1.800.KLEENBLAST**

Test Equipment



Elcometer 224 Model T PART #ELCOE224T Surface Profile Gauge with Bluetooth®

Making sure that the correct roughness – or profile – has been generated on a surface prior to coating is essential.

If the profile is too low, the adhesion of the coating to the surface will be affected. Too high and there is a danger that the profile peaks will remain uncoated – allowing rust spots to occur. As the profile increase, so does the surface area – which in turn increases the amount of coating which needs to be applied. Achieving the correct surface profile enables the optimum amount of coating to be applied saving both time and money.

Can be used in accordance with:

ASTM D 4417-B	NSTM 009-32	SANS 5772
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Elcometer 124 Thickness Gauge For Use with test tex tapes

PART #s	
Gauge	ELCOE1243E
TestTex Tapes	50 per roll
ELCOE122C	Coarse - 0.8 to 2.0 mils
ELCOE122EXC	Ex-Coarse - 1.5 to 4.5 mils
ELCOE122EXCP	Ex-Coarse Plus - 4.5 mils & above

Test Equipment



Elcometer 415 Paint & Powder Coating Thickness Gauge

This easy to use, low cost gauge provides a simple, accurate and reliable way to measure coatings on smooth ferrous (steel) and non-ferrous (aluminium) substrates.

This gauge with its intuitive menu allows you to use it straight out of the box.

Fast and accurate reading rate:

Greater than 60 readings per minute.

Large, easy to read display:

The angled, 'enlarged' display is ideal for viewing from all angles.

Simple 'zero cal' feature:

Complete with factory calibration reset if no access to the uncoated substrate.

Auto switches to Ferrous or Non-Ferrous:

Ideal for measuring paint or powder on both steel and aluminium surfaces.

Metric or Imperial measurements:

Readings can be displayed in microns or mils.

Bigfoot™ probe for repeatable results:

Integral probe with V-groove allows accurate positioning on smooth, flat surfaces.

Ergonomic design for maximum comfort:

Easy to hold gauge allows for regular daily use.

On-screen instructions:

The User is guided through the functions of the gauge - in over 20 languages.

Rugged & Reliable:

Built from ABS plastic, this durable gauge is ideal for the paint & powder coating environment.

Don't Let It Go To Waste



**Let Us Handle Your
Spent Abrasives
Recycling**

**Over 300 Million Lbs. of Spent Blast Abrasive
Kept Out of Landfill and Beneficially Recycled.**

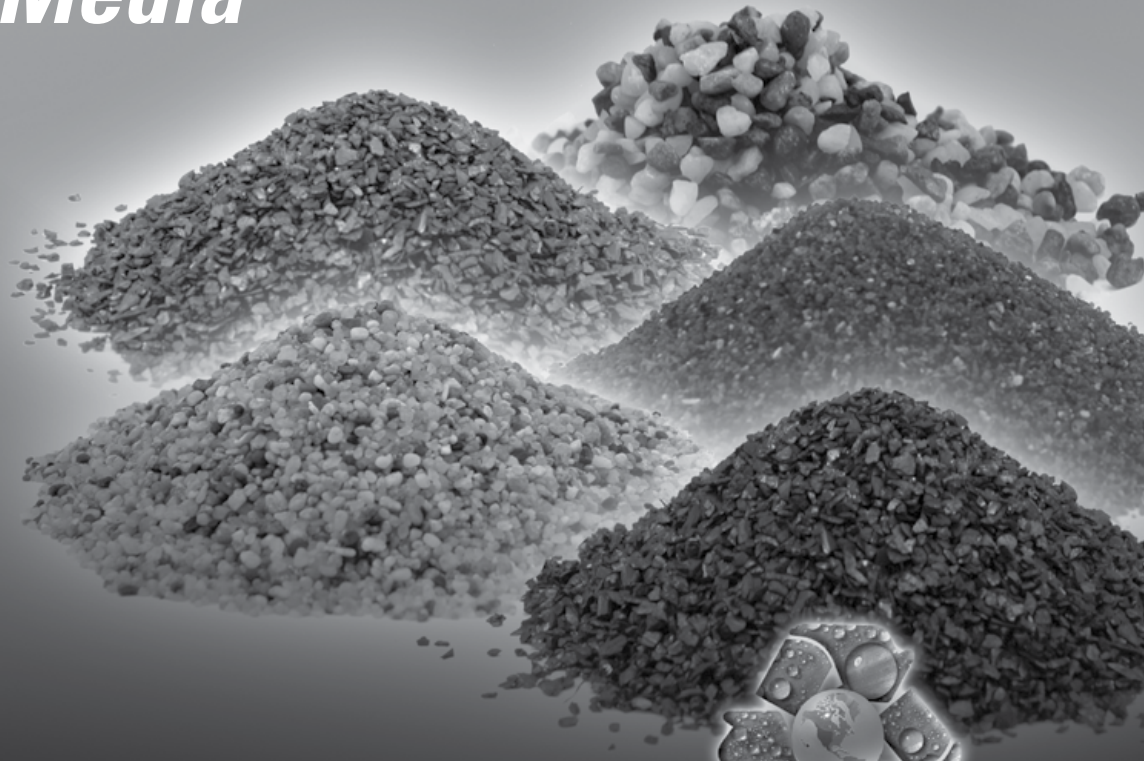
www.kleenindustrialservices.com



Water Filtration



**Water Filtration
Media**



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