

# CABINET ABRASIVE BLAST CLEANING & FINISHING

## KEY FEATURES OF BLAST CABINETS

- ❖ Machine meets **OSHA Standards**
- ❖ All cabinet models are rubber lined inside (except SB models) as standard practice.
- ❖ Large vision window vision glass is protected by a wire screen against abrasion and glass is easily replaceable.
- ❖ Easy fitting of accessories like nozzles, hose etc. whenever required at site.
- ❖ New ergonomic cabinet is designed to make operator relaxed while working.
- ❖ Blasting start / stop is through foot valve so that hands of operator are free to maneuver the job or blasting nozzle.
- ❖ Air pressure gauge air pressure regulator moisture separator (except WetBlaster - WB) and an air gun is provided as standard fitting.
- ❖ Continuous clog free abrasive feed is assured through mixing tube. Any standard abrasive of suitable size can be used.
- ❖ Simple operation and simple installation as the machines are ready to operate when connected with airline and electric supply Foundation or pit for installation not necessary (except
- ❖ Fabricated from heavy gauge mild steel steel, folded and welding construction. It incorporates sealed hand holes and gasketed doors to ensure that dust will not escape outside.
- ❖ Environmentally clean and friendly as dust collection device is attached so only clean air is discharged to atmosphere.
- ❖ Noise level of fan is kept below 80 dBA at operator's position. Proper ventilation is provided for clean visibility while blasting.
- ❖ Doors are provided with Cam Lock System which seals the door across the width by operating a simple lever and are easy to open / close.
- ❖ High lumens for good illumination also proper ventilation for clear visibility while blasting.
- ❖ New wear plate at cyclone's inlet (in SBI) increase its life. even on using highly abradable media like aluminium oxide.
- ❖ A flexible pneumatic hose has been used for air and abrasive to reduce operator's fatigue and has long service life.
- ❖ The vibrator body is gravity casted with high carbon harden ball and sleeves to long life.

## SUCTION BLASTER (SB)



Works on **INDUCTION-SUCTION** principle of abrasive delivery. The super blaster ensures continuous working and no interruption in blasting cycle. Recommended for light and medium size components where surface is to be cleaned or deburred or to impart with fine matte finish. Useful for heat treatment shops, tool, die and mould makers and shot peening of light metal components etc. SB machines are incorporated with reclaimer which ensures uniform cleaning and finishing each time and in every next operation. This is achieved by an automatic system of abrasive cleaning and separation built into the reclaimer. Dust and debris are separated and only clean and sized abrasives are carried to blast gun-ensuring a homogeneous finishing. Most cabinets of other make do not have the reclaimer as standard practice.

### Options, available on request

- Rubber lining inside walls of cabinet.
- Reversejet cartridge filter dust collector.
- Higher output Blast Gun in place of standard.
- Foot operated treadle switch for blasting ON/OFF.
- Fitted with optional accessories.



AIR REQUIREMENT CHART	Air Consumption In (cub.ft./min.)	Air Consumption In (cub.ft./min.) 5.63 / 6.36(80-90 PSI)
	Nozzle size 5 mm (PB)	
6 mm (PB)		85
Nozzle Size 6 mm (SB)		17
8 mm (SB)		35
10 mm (SB)		45

We suggest air compressor to be of 20% excess capacity.



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## PRESSURE BLASTER - PB

Works on **DIRECT PRESSURE** principle of blasting, the pressure blaster produces high abrasive velocity resulting to cleaning of job at faster rate. A pressure vessel directly bolted below hopper of cabinet has automatic abrasive refilling arrangement. A tubular fabric bag type dust collector with generous filter area is attached with cabinet as standard feature for high efficiency of dust collection. A manual shaker is also provided for bag shaking. PB is recommended for fast cleaning, for removal of heavy rust and corrosion using coarse abrasive, it is most suitable for etching the surface needed for rubber-lining, FRP lining and metal spaying. Castings and forgings are cleaned speedily. Blast pressure can be controlled from 30 to 90 psig. Almost all types of coarse and medium size abrasives can be used depending upon application.



### Options, available on request

- Motorised bag shaking arrangement.
- Reversejet cartridge filter dust collector.
- Higher output Blast Gun in place of standard.
- Foot operated treadle switch for blasting ON/OFF.
- Fitted with optional accessories.



## CABINET SPECIFICATIONS

MODEL	PRESSURE BLASTER (PB)			SUCTION BLASTER (SB)		
	PB-9182	PB-12090	PB-150120	SB-6060	SB-9182	SB-12090
Working Chamber mm						
Height A	775	900	900	600	775	900
Width B	910	1200	1500	600	910	1200
Depth C	820	900	1200	600	820	900
Door Opening mm						
Width G	730	800	1100	500	730	800
Height H	675	800	800	500	675	800
Overall Dimension mm						
Height D	2130	2030	2080	1660	2120	2570
Width	1100	1365	1665	800	1070	1365
Depth P	2500	2430	2730	1500	1400	1700
Dust or Mist Collector or Reclaimer Fan Motor HP	1.0	1.0	1.5	0.5	1.0	1.5
Fan Capacity (M <sup>3</sup> /min)	14.16	14.16	22.66	5.66	11.32	16.98
Fan Capacity (CFM)	500	500	800	200	400	600
Filter Cloth Area (M <sup>2</sup> )	7.5	7.5	10.0	1.0	2.0	4.0
Slurry Pump Motor (HP)	---	---	---	---	---	---
Airjet Orifice mm	---	---	---	*2,3	*3,4	3,*4
Blast Nozzle mm	*5,6	*5,6	*5,6	*6,8	*8,10	8,*10
Abrasive Storage Capacity Litres (CFT)	28(1.0)	42(1.5)	42(1.5)	28(1.0)	28(1.0)	42(1.5)
Pit Size mm	---	600	900	---	---	---
Width	---	2180	2530	---	---	---
Length	---	510	600	---	---	---
Depth	---	---	---	---	---	---
Weight in Kg (approx.)	580	650	760	250	380	490
Abrasive Feed	Direct Pressure			Induction Suction		

\* The size supplied unless other wise specified. All motors used are 415V/3P/50HZ. specifications are for guidance & subject to change without notice.

### QUALITY OF COMPRESSED AIR

The quality of compressed air recommended is 1600 ppm at - 10°C dew point. However, instrument air is normally used in practise. Air dryer is recommended to dry and moisture free air.



## NATIONAL ENTERPRISES

MANUFACTURERS OF : Industrial Blast Rooms, Airless & Air Operated Abrasive Blasting Machines, Shot Peening Plants, Industrial Dust Collectors, Painting Equipments & Booths



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