

ABRASIVE BLASTING MACHINE

APPLICATION OF ABRASIVE BLASTING & SHOT PEENING PROCESS





- Remove heat treat scale, rust, corrosion and paint. To prepare surface for pre-place and pre-anodize.
- Remove residual film from moulds and dies.
- Remove slag, oxides and discolouration from weld To exturizing and etching of rolllers. joints.
- Cleaning and deburring of ferrous and non ferrous
 Shot peening for producing residual compresives castings.
- To produce decorative matte of stain finish.
- To produce surface ideal for lubracation retention.
- To improve metal wear, finish and apperance.

- To prepare surface for coating and painting.
- Deflashing and deburrning of thermoset plastic parts.
- stesses.
- To improve strength, fatigue life and reduce corrosion.
- Shot peening blades, gears, spring and transmisson components.

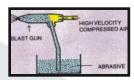
METHODS OF ABRASIVE BLASTING

What are Super Blaster (SB), Pressure Blaster (PB) and Wet Blaster (WB) Machines?

There are Basically three established methods of abrasive blasting i.e. INDUCTION - SUCTION (SUPPER BLASTER), DIRECTOR PRESSURE (PRESSURE BLASTER) and SLURRY PUMPING (WET BLASTER). These are briefly described below:

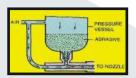
Induction -Suction

in this method abrasive is drawn from hopper into the blast gun by a partial vacuum created by high velocity airflow. This is useful for light-weight abrasive and cleaning of light corrosion.



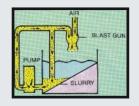
Direct Pressure

In this Method, abrasive is pressurised in a pressure vessel by compressed air and then for nozzle. it imparts high abrasive velocity and blasting is faster.



Slurry Pumping

in this method pump draws fine abrasive mixed in water (slurry) From Botton of hopper and forces it to blast gun where compresse air is introduced to atomise the slurry. slurry impacted on the surface to be cleaned.



FINIMAC-Suction Blaster





Work 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 bulit 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 swich for blasting ON/OFF.
Fitted with optional accessories

FINIMAC-Pressure Blaster

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 arrangemenr. A tubalar 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 emoval of heavy rust and corrsion using coarse abrasie, it is most suitable for etching the surface needed for rubber-lining, FRP lining and metal spaying. casting and forgings are cleaned speedily. blast

pressure can be controlled from 30 to 90 psing. almost all type of coarse and medium size abrasive can be used depending upon application.

Options available on request

- motorised bag shaking arrangment.
- reversejet cartridge filter dust collector.
- higher output blast gun in place of standard.
- foot operated treadle swith for blasting ON/OFF.
- fitted with optional accessories.



FINIMAC-Wet Blaster



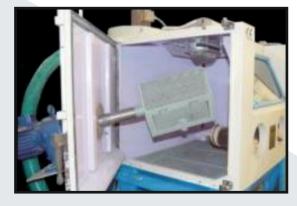
Works on INDUCTION-SUCTION principle of blasting. The most imprortant point in wet blasting is its ability to use very fine abrasive - as fine as 5 microns. fine abrasive particles are suspended in liquid, usually water and then pumped. to a nozzle as a slurry. At nozzle, the slurry is introduced into air-stream and propelled against job.the glandless slurry pump is used to feed the slurry at positive pressure into blast gun.the wetted parts of pupm are the thermoset plastic material for corrosion resistance.WB machine is useful in tool room to remove feather burrs from multitooth cutting tools, such as, milling cutters, holes, broaches and taps eliminating hors of handhoning time. It deburrs intersecting holes in precision parts wich are inaccessible by any other method.the finest machined surface can be super-finished without damage to sharp edges and exact tolerances.

Options available on request

- Higher capacity slurry pump for high output.
- Higher output Blast Gun in place of standard
- Foot operated treadle swich for blasting ON/OFF.
- Fitted With optional accessories.

OPTIONAL ACCESSORIES

To increase your production, use following accessories with the blast cabinet



Tumble Basket

Tumble basket is mounted on side door to suit cabinet size. basket is easily removable when not needed. blast period is controlled by a timer. it is suitable for automatic batch blasting of smaller parts, such as balls, rings, screws, nuts, tools etc.

Tumble basket length / dia(mm) : 300/250 & 350/300

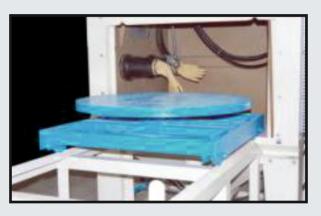
Load capacity (kg) : 20 & 25

Inside Turntable

The turntable is fixed inside the cabinet on bearing for easy and fre manual rotation of jobs.

Turn table diameter (mm): 500 & 700

Load capacity (kg): 50



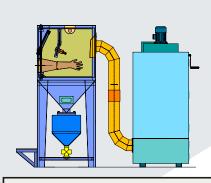


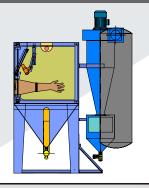
Workcar With Turntable & Mounted Track Extension

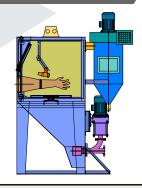
The turntable is fixed on workcar. the track extension is provided inside of cabinet to facilitate workcar movement. it is deal for handling large and heavy components.

Workcar Lenght (mm): 600, 750 & 900 Track Extension Length (mm): 1500

FINIMAC-CABINET TYPE ABRASIVE BLASTING MACHINE







PRESSURE BLASTER (PB)

SUPER BLASTER (SB)

WET BLASTER (WB)

CABINET SPECIFICATIONS

MODEL	PRESSURE BLASTER (PB)			SUPER BLASTER (SB)			WET BLASTER (WB)	
	PB-9182	PB-12090	PB-150120	SB-6060	SB-9182	SB-12090	WB-9182	WB-12090
Working Chamber mm Height A Width B Depth C	775 910 820	900 1200 900	900 1500 1200	600 600 600	775 910 820	900 1200 900	775 900 820	900 1200 900
Door Opening mm Width G Height H	730 675	800 800	1100 800	500 500	730 675	800 800	730 675	800 800
Overall Dimension mm Height D Width Depth P	2130 1100 2500	2030 1365 2430	2080 1665 2730	1660 800 1500	2120 1070 1400	2570 1365 1700	1940 1070 1500	2235 1365 1700
Dust or Mist Collector or Reclaimer Fan Motor HP Fan Capacity (M³/min) Fan Capacity (CFM) Filter Cloth Area (M²) Slurry Pump Motor (HP) Airjet Orifice mm Blast Nozzle mm	1.0 14.16 500 7.5 *5,6	1.0 14.16 500 7.5 *5,6	1.5 22.66 800 10.0 *5,6	0.5 5.66 200 1.0 *2,3 *6,8	1.0 11.32 400 2.0 *3,4,5.5 *8,10,12	1.5 16.98 600 4.0 3,*4,5.5 8,*10,12	0.5 5.66 200 1.0 *3,4,5.5 *8,10,12	1.0 11.32 400 1.0 *3,4,5.5 *8,10,12
Abrasive Storage Capacity Litres (CFT)	28(1.0)	42(1.5)	42(1.5)	28(1.0)	28(1.0)	42(1.5)	42(1.5)	42(1.5)
Pit Size mm Width Length Depth		600 2180 510	900 2530 600					
Weight in Kg (appro.)	580	650	760	250	380	490	400	525
Abrasive Feed	Direct Pressure		Induction Suction			Glandless Pump		

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

	Air Consumption in	Air Consumption in Cub.M / min. (Cub.ft./min.)			
	Cub.M / min. (Cub.ft./min.)	4.92 (70)	5.63 (80)	6.33 (90)	
AIR REQUIREMENT CHART	Nozzle size 5 mm (PB)	0.93 (33)	1.08 (38)	1.16 (41)	
AIR REQUIREMENT CHART	6 mm (PB)	1.73 (61)	1.93 (68)	2.10 (74)	
	Air orifice Size 2 mm (SB, WB)	0.40 (14)	0.45 (16)	0.54 (19)	
	3 mm	0.54 (19)	0.59 (21)	0.68 (24)	
	4 mm	0.85 (30)	0.96 (34)	1.05 (37)	
We suggest air compressor to be of 20% excess capacity.	5.5 mm	1.67 (59)	1.87 (66)	2.07 (73)	

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