

BLAST CLEANING & FINISHING SYSTEM

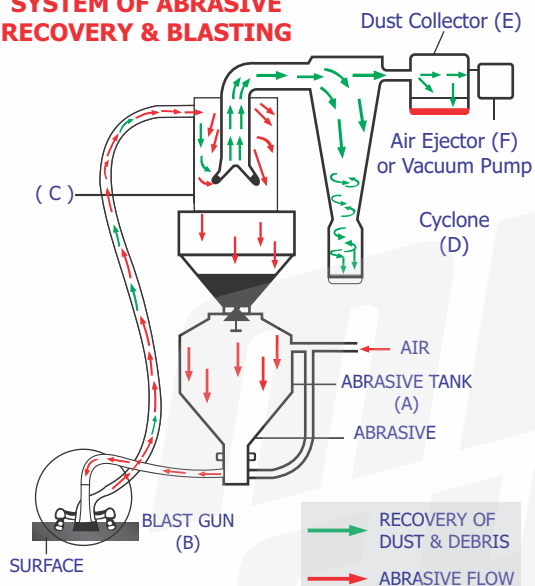
VACUUM BLASTER P-15RE

P-15RE is a portable blast machine, needs only one man to operate. Abrasive is automatically and instantly recovered for reuse. Safe and dust free operation.



APPLICATION

SYSTEM OF ABRASIVE RECOVERY & BLASTING



VACUUM BLASTER P-15R

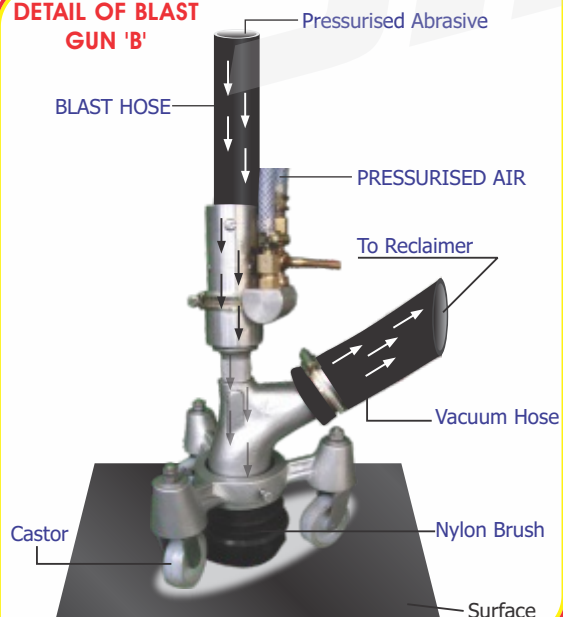
It is a high performance blast machine for quick removal of millscale, rust, weld slag, old paint etc.

It has its own integral system of instant recovery of abrasive, dust and debris. No flying dust and abrasive to contaminate surrounding.

HOW IT WORKS ?

The system of P-15R machine is shown here in diagrammatic cross-section; the arrows marked in red indicate abrasive flow from Abrasive Tank which is a pressure vessel, to Blast Gun and its return via vacuum hose to Reclaimer. The arrows marked in red & green represent recovery of debris and dust from Blast Gun. Abrasive is pressure fed from Abrasive Tank (A) to Blast Gun (B). Blast Gun remains in close touch with surface to be cleaned. After cleaning the surface, abrasive, debris and dust is vacuum conveyed to Reclaimer (C) where good reusable abrasive is air-washed, sieved and then returned to Abrasive Tank (D) for reuse. Thus only clean air is discharged into atmosphere from (E) Dust Collector. Reverse air flow (vacuum) is created by Compressed Air Ejector or by Vacuum Pump (F). Blast and automatically transfers all dust, debris and used abrasive to Reclaimer via a vacuum hose. Four castors facilitate movement along work surface. A nylon brush surrounds the gun body to prevent escape of abrasive and dust.

DETAIL OF BLAST GUN 'B'



TECHNICAL SPECIFICATION

Model P-15 R P (With Pneumatic Recovery)

Model P-15 R E (With Vacuum Pump Recovery)

	Model P-15 R P (With Pneumatic Recovery)	Model P-15 R E (With Vacuum Pump Recovery)
01. Overall Dimensions mm Appx.	800 x 1100 x 2200 H	800 x 2000 x 2200 H
02. Abrasive Tank Capacity	28 Liters	28 Liters
03. Blast Nozzle TC	6 mm	6 mm
04. Blast Hose Dia & Length	19 mm x 7.5 M	19 mm x 7.5 M
05. Recovery System	Air Injector	Vacuum Pump
06. Reclaimer Type	Cyclone & Vibrating Screen	Cyclone & Vibrating Screen
07. Dust Collector	S.S. Cartridge	S.S. Cartridge
08. Compressed Air Requirement	5.10 M ³ / Min. at 6.33 Kg / sq. cm.	2.55 M ³ / Min. at 6.33 Kg / sq. cm.
09. Electrical Loading	Nil	10 HP 415V 1 3P / 50 Hz



VACUUM BLASTER P-15RE



VACUUM BLASTER P-15RP

APPLICATIONS

The P-15RE/RP is ideal for in-plant maintenance work because it puts an end to flying dust and abrasive. It also cleans more efficiently than other hand tools. Used for shot peening, deburring and etching the surface.

In-plant Maintenance : Cleans large and bulky machines and roof trusses without interrupting production.

Chemical Plants : Quickly cleans process tanks in preparation for coatings. Spot blasting for repairing of coating and lining.

Heavy Equipments Maintenance : Ideal for spot cleaning trailers, construction equipment or other large vehicle prior to coating.

Nuclear Power Plants : Specially useful where pollution is a problem and maximum cleanliness must be maintained.

Steel Fabrication Plants : Highly recommended for cleaning large weldments. Cleans surface prior to welding.

Gear Manufactures : Shot peens for added strength while large gears are in place.

However, not suitable for highly irregular and complex shaped surfaces, unless special brush is developed.

SPECIAL FEATURES

Portable : Mounted on 4-wheels, it can be wheeled to job site. Needs only one man to operate.

Blasting at high pressure-fed to blast gun, it is propelled at high force against work surface, thus increasing blasting output.

Uniform cleaning and finishing : Abrasive is cleaned of dust and debris in Reclaimer before being recharged from blast nozzle. This ensures uniform surface finishing all the time.

Reuse of abrasive : Metallic abrasive like C.I. Grit and Steel Shots are used several times. Media recycling is automatic. Any type of abrasive except sand can be used depending upon surface to be cleaned and finish required.

Easy Control : Start/Stop Control is located at blast gun for ease of operator.

Safe Operation : Operator need not wear airfed helmet or to work in side blast room. He is fully safe. He works in dust free conditions. Vacuum recovery is made possible either by pneumatic or by electric vacuum pump.

Dust Free Operation : Dust, debris and used abrasive are recovered at the blast point. No flying of dust and abrasive into surrounding area. Work can go on uninterrupted e.g. painting can be done along with blasting.

Mobile Close Circuit Vacuum Blasting Machine Model PB-10



BRIEF WORKING

The blasting is accomplished manually by holding the gun against the work surface, which is fairly straight. The equipment being closed circuit, the spent abrasive is sucked due to vacuum created and cycled into pressure generator after passing through the reclaimer unit. Thus, the used abrasive and dust created is contained within the equipment, keeping the blasting operation dust free.

TECHNICAL SPECIFICATIONS :

Complete equipment/ unit of Vacuum Blasting Machine with all accessories, all sub assemblies accommodated in two frame work provided with lifting lugs. The machine is suitable for blasting with chilled from grit **G-02 to G-39 of BS-2451** and **aluminium oxide 14/24 - 60/80**. The machine is capable for reclamation (**with vacuum pump of 15 HP**) from 22.8 mtrs. Distance max. Single gun is provided with Supersonic Tungsten Carbide for non ferrous abrasive. Proper sieving arrangement with manual rapping of dust collector's filter bags provided with heavy duty moisture separator to arrest line condensation from compressed air entering into the equipment to keep abrasive dry and blast surfaces uncontaminated to the extent possible.

All the parts of systems are accommodated on two frame work with a lifting lug.

The air consumption of nozzle depends on size of nozzle used and pressure during machine operation.



TECHNICAL SPECIFICATION		Model PB-10
01.	Overall Dimensions mm Appx.	1600 (L) X 2500 (W) X 3600 (H)
02.	Abrasive Tank Capacity	112 Liters
03.	Blast Nozzle TC	9.5 mm
04.	Blast Hose Dia & Length	25 mm x 15 M
05.	Recovery System	Vacuum Pump
06.	Reclaimer Type	Cyclone & Vibrating Screen
07.	Dust Collector	Cartridge Type
08.	Compressed Air Requirement	7.5 M3 / Min at 6.33 Kg / sq. cm.
09.	Electrical Loading	15 HP 415V / 3P / 50 Hz



BLAST CLEANER - P-14

Cleans, Peens, Finishes with practically no more effort than pulling a trigger

It is a portable and automatic recovery vacuum blaster suitable for in-situ conditions for light duty blasting operations. Pneumatically operated & needs no electric power.



VACUUM BLASTER VSA-2

Operating Advantages

- Simple Operation.
- Dust Free Working.
- Mobile, Suitable for in-situ application.
- Low Maintenance.
- Totally compressed air operated machine - No electric power required for the machine.
- Light weight and compact machine for Shot Blasting and Peening.
- Recommended for spot weld-descaling and cleaning of rust etc.
- Paint removal from aircraft components.
- Replace cumbersome and hazardous chemical cleaning.



TECHNICAL SPECIFICATION

Model VSA-2

01. Overall Dimensions mm Appx.	950 (L) X 1400 (W) X 500 (H)
02. Approximate weight (without abrasive)	90 Kgs.
03. Operating hose length	5 mtrs. (16 ft.) Extension up to 12 mtrs.
04. Blast Gun	T.C. Nozzle 10 mm Air Injector 4 mm
05. Recovery System	By 4 mm air ejector
06. Recommended compressed air supply hose	19mm (3/4") upto 6mtrs. (20') or 25mm (1") upto 12 mtrs (40') L
07. Blast Cycle	Continuous
08. Abrasive Storage	0.0284 m3 (1 ft3)
09. Recommended abrasive size	B.S. Mesh 25 to 80
10. Compressed air consumption at 6.3-7kg/cm2(90-100psi)	2.27 m3/min (80 cfm) free air delivery



MOBILE CLOSED CIRCUIT VACUUM BLASTING MACHINE MODEL P-15C



Mobile Circuit Vacuum Blasting Machine most suitable for INSITU Blast cleaning operations featured with its own integral system of instant recovery and recycling of usable grit as well as built in dust collection system for safe and dust free operation.

TECHNICAL SPECIFICATION

Model P-15C

01.	Overall Dimensions mm Appx.	
(a)	Reclaimer	2000 mm (W) x 2000 mm (D) 3600 mm (H)
(b)	Dust Collector	2000 mm (W) x 1600 mm (D) 3200 mm (H)
02.	Abrasive Tank Capacity	
(a)	Upper Tank	30 Liter
(b)	Lower Tank	60 Liter
03.	Blast Nozzle TC	9.5 mm x 2 Nos.
04.	Blast hose Dia & Length	25 mm x 15 Mtr. 2 Nos.
05.	Recovery System	Vacuum Pump
06.	Reclaimer Type	Cyclone & Vibrating Screen
07.	Dust Collector	Cartridge Type
08.	Compressed Air Requirement	15 M3 / Min at 6.33 Kg. / Sq. cm.
09.	Electrical Loading	30 HP 415 V / 3P / 50 Hz



ABRASIVE/FEED VALVE

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Note: All specifications are approximate and are subject to change without notice.