

BLAST CLEANING & FINISHING SYSTEM

PORTABLE ABRASIVE BLASTER P7

For INDUSTRIAL CLEANING & FINISHING OPERATIONS



P7-150



P7-301R



P7-501R



P7-601R



P7-1001R



P7-901R
(with dual outlet)

APPLICATIONS



SALIENT FEATURES OF P7 ABRASIVE BLASTERS

When you buy Portable Pressure Blaster, consider the following features, Many of these are either totally absent in competitive makes or are supplied at extra cost. P7 is a package unit... Complete for operation.

1 AUTOMATIC FILLING VALVE :

The machine is provided with automatic mushroom valve (Filling Valve) for quick refilling of abrasive.

2 TUNGSTEN CARBIDE VENTURI NOZZLE :

The long & short series convergent-divergent tungsten carbide lined blasting nozzle ensures high velocity, evenly distributed blast pattern & higher blasting output and provides lower wear, longer life and greater resistance against breakage.

3 BLAST HOSE :

The blast hose is highly abrasion resistance with improved mixing valve outlet for longer life, high flexibility with lower bend radius & light weight and electrically antistatic for safe operation.

4 ABRASIVE ON/OFF VALVE :

The machine is fitted with pinch valve with hand wheel to control the abrasive flow through blast nozzle.

5 ABRASIVE SIEVING :

A wire screen is fitted with pneumatic vibrator to sieve abrasive to avoid blast line choking.

6 ABRASIVE TANK CONSTRUCTION :

Abrasive tank is fabricated from tested quality steel plate in accordance with IS-2825 and hydraulically tested at 250 psi.

7 AUTOMATIC EXHAUST VALVE :

It vents outlet air and thereby machine is depressurised instantly. Valve opens automatically with stop of air supply to machine and vice-versa.

8 AIR FILTER & PRESSURE GAUGE :

An online air filter and pressure gauge is provided.

9 BALL VALVE :

The machine is fitted with ball valve having stainless steel ball (An anti-corrosive material) to ensure full air flow without pressure loss.



OPERATOR SAFETY WEARS

AIRFED BLASTER'S HELMET-PC1 :

Rubberised FRP helmet provides the operator's head protection from safety crash and impact of abrasive and still allows a clear view through easily replaceable lens. It provides breathing air to operator to protect him from dust inhalation.

HELMET HOSE :

It channels the purified and cool air supply for breathing to operator during blasting operation.

HELMET AIR CONDITIONER :

It provides cool air to helmet to ensure comfortable environment to operator. The temperature is regulated by adjusting control valve fitted on it.

OPERATOR'S SUIT :

A cotton fabric suit provides safety to operator's body against impact of flying abrasives and dust.

Safety
Wears
supplied
as per the
requirement
of OSHAS



AIR BREATHER :

It consists of a disposable activated charcoal cartridge filter unit which purifies the incoming air supply to helmet from moisture, oil and dust contaminants. Thus clean air is fed to operator for breathing.

GUM BOOT :

A pair of gum boots provides safety to operator's feet & ensures compliance to industrial safety regulation.

HAND GLOVES :

A pair of Hand Gloves provides safety to operator's hand and ensures compliance to industrial safety regulation.

APPLICATIONS

- To blast clean the surface of floor tiles, slates, sand stone, marble chips for proper bonding with surface.
- Creating design, surface etching & engraving on different types of stones.
- Portability of machine helps it for cleaning huge monuments in a very less time..
- Site blasting of huge components like heavy structure, tanks, pressure vessels, bridges, towers, pipes etc. prior to repainting.
- Descaling, deburring & deflashing of forged and die-cast components.
- Quite useful for overhauling, general maintenance and repair work in cement, chemical & gas plants.
- Removal of heat treatment scale, corrosion, rusting, scale formation, welding flux, carbon & minuscule in steel components.
- Steel fabrication can be de-scaled after welding or de-rusted, ready for painting on site using different media depending on finish required.
- Blast cleaning to remove scale, corrosion rust & paint from deck, hulls & superstructure etc
- Widely used in handicraft industries to give new look to metal as well as wooden items.



P7-301R

It is recommend to perform blasting operation inside Blast Room which consist of an Enclosure, Dust Collector, Recovery System (Semi / Automatic), Work handling system etc. The size of Blast Room is mainly governed by size of Job, No. of operators etc.

OPTIONS AVAILABLE ON REQUEST

AIR FED HELMET MS-2005



'MEC SHOT' air fed blast cleaning helmet is result of our long experience and extensive field experiments. It provides ultimate safety and comfort to operator during blast cleaning operation.

BREATHING AIR FILTER BAF-4

'The MEC SHOT BAF-4 is designed to remove oil mists, water vapour and particulate upto 0.5 microns from breathing air. Air from compressure enters the filter through either of the two inlet ports. Moisture is removed by expansion in the outer chamber & drain out through a pet cock at the bottom of the unit.



WET HEAD



Wet Head is recommended for economical dust free wet blast cleaning with use of P7 type blasting machine on jobs such as cleaning structures stones, brick, concrete, monuments etc.

Wet head is attached to the blast nozzle is provide wetting of dry air abrasive stream with water prior to its forceful discharge from the wet head. It also serves to wash off finished surfaces with clean pressurised air water stream after shutting of abrasive supply.

REMOTE CONTROL SYSTEM



It place complete ON/OFF control of machine in the hand of operator at blast nozzle. It saves abrasive and air consumption when operator changes position or performs spot blasting and provides added safety to operator and other personnel in the area. Machine fitted with Remote Control System is designated with 'R' such as 'P7-301R', P7-1001R and so on.

FEATURES AVAILABLE ON REQUEST

With All Models

- Stationary Model
- Air Regulator
- Pneumatic Remote Control System

With P7-501, 1001 & P7-901 ONLY

- Electric remote control system
- Bigger size blast nozzle & blast hose
- Maximum working pressure increased upto
- 10.5kg/sq.cm (150 psi)
- Dual outlet for two operator working

INTERNAL PIPE CLEANING TOOLS



Internal pipe cleaning tools can clean the inside surface of pipes of diameter 51mm to 914mm and length upto 12m. It cleans completely around 360 degree interior of pipe.

Removes stubborn rust, carbon, scale, old paint etc. Internal pipe cleaning tools operate with any high capacity pressure blasting machine such as P7-501, P7-1001 or P7-901.

PORTABLE ABRASIVE BLASTERS - SPECIFICATIONS

	P7-150	P7-301R	P7-501R	P7-601R	P7-1001R	P7-901R (with dual outlet)
Abrasive Capacity						
Metallic (Kg.)	150	300	500	600	1000	900
Sand (Kg.)	65	130	230	275	460	400
Volume (Liters)	42	85	142	172	284	255
Overall dimensions approx						
Height mm	1110	1290	1370	1500	1610	1610
Diameter mm	360	460	615	615	760	615
Weight Kg.	95	140	180	200	245	220
Blast Nozzle Tungsten Carbide lined						
Orifice mm [*Standard size supplied unless ordered otherwise]	*5 6	*6 5	*8 6, 10	*8 6, 10	*10 8, 12	*10 8, 12
Blast Hose ID (mm)	19	19	25	25	32	32
Blast Hose Length (meter)	5	5	7.5	10	10	10
Recommended Air Hose ID (mm)	19	19	25	25	32	32
Approx Cleaning Rate (Sq. Mtr./Hour) For guidance only	3 to 4	5 to 9	11 to 15	11 to 15	15 to 19	15 to 19
Compressed Air Requirement at 5.63 Kg./sq. Cm (80psi) Cubic meter/minute (CFM)	1.27(45)	2.41(85)	3.85(135)	3.85(135)	7.08(250)	7.08(250)
Recommended Abrasive size range BS Mesh	30 to 80	25 to 80	16 to 80	16 to 80	12 to 80	12 to 80

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

BLAST ROOM ENCLOSURE

Open Blasting is Banned due to Pollution norms. To overcome the pollution norms it is highly recommended to use Portable Blasting Machine (P7) with Blast Room Enclosure (fabricated / civil constructed), mechanical recovery & dust collector system.

In these Enclosures metallic abrasives are being used which are more cost effective than the sand used in the open blasting.

The open blasting is not a cost effective solution because the sand carrying silica flowing through cuts all the consumable parts.



Features:

- Mechanical Recovery System For Ease of Collection of Media
- Dust Emission Level is Low
- Blasting Sound get Dampen in Enclosures
- Continue Blasting Process
- Operator's Health Friendly



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