

Portable Abrasive Blasting Machine



Blast Rooms are generally provided with AW-501R and AW-1001R models. During the blasting process, the mushroom valve and exhaust valves are closed, the vessel is pressurized and the media is forced out through the feed valve to the nozzle. When the blasting ceases, the vessel is depressurized by opening the exhaust valve. The vessel remains depressurized except when blasting is in process.

The remote control valve provided in the system releases the pressure, stopping the blasting process thereby ensuring safe working conditions for the operator in case the hose and nozzle drops accidentally.

	AW-301R	AW-501R	AW-1001R
Abrasive Capacity			
Metallic (Kg.)	300	500	1000
Sand (Kg.)	130	230	460
Volume (Litres)	85	142	284
Overall dimensions approx			
Height mm	1290	1370	1610
Diameter mm	460	615	760
Weight Kg.	140	180	245
Blast Nozzle Tungsten Carbide lined			
Orifice mm [*Standard size supplied unless ordered otherwise]	*6 5	*8 6, 10	*10 8, 12
Blast Hose ID (mm)	19	25	32
Blast Hose Length (metre)	5	7.5	10
Recommended Air Hose ID (mm)	19	25	32
Approx Cleaning rate (sq. Mtr./hour)			
For guidance only	5 to 9	11 to 15	15 to 19
Compressed Air Requirement at 5.63 Kg./sq. Cm (80psi)			
Cubicmeter / minute (Cfm.)	2.41(85)	3.85(130)	7.08(230)
Recommended Abrasive size range BS Mesh	25 to 80	16 to 80	12 to 80

*Specifications are for guidance & subject to change without notice.

Salient Features of Portable Abrasive Blasters

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 CONTROL 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.

