



## INDUSTRIAL PRESSURE BLASTERS



ISTblast offers a line of pressure sandblasters to address all casual workers to heavy users' needs.

Designed to offer performance and mobility, you can use them for outdoor applications or in an abrasive blast room or other sandblasting installation for manufacturing activities.

All our pressure vessels are made of heavy duty steel construction, and can fit different combinations of sandblasting hoses and nozzles to accomplish simple to complex tasks.

### MARKETS

- General Manufacturing
- Aerospace & Aviation
- Transport & Automotive
- Construction & Civil Engineering
- Marine
- Oil & Petroleum

### KEY FEATURES

- ✓ Available tank capacity: up to 10 cubic feet
- ✓ Heavy-duty construction and piping
- ✓ Adjustable abrasive regulator
- ✓ Highly portable on wheels (except PPB-1046)
- ✓ Equipped with pneumatic or electrical remote control system
- ✓ Convex top for built-in filling tunnel
- ✓ Abrasive regulator valve (MMV-175 or PMV-186) allows a precise and controlled flow of abrasive
- ✓ Certification: ASME & CRN



## 80 PX

Ideal sandblasting unit for light maintenance jobs on machinery and road equipped with a  $\frac{3}{8}$ " piping, and an 80 lb. tank capacity.

A very popular choice for tool rental companies, auto body shops, or even the weekend handy man. Supplied with a  $\frac{3}{8}$ " x 8' sandblasting hose, a  $\frac{1}{2}$ " hose x 10' upgrade kit is also available. Requires minimum 5 hp (20 cfm) to operate.

### KEY FEATURES

- ✓ Tank capacity: 0.8 cubic feet, approx. 80 lb. abrasive capacity
- ✓ Very light (45 lb.) and operates on low power requirements (5 hp)
- ✓ Supplied with BH-3 protective hood, ceramic nozzle  $\frac{1}{8}$ " I.D., 8' sandblasting hose  $\frac{3}{8}$ ", & remote control (RCM-12)

### TECHNICAL SPECIFICATIONS

Description	Value	Description	Value
Tank Capacity	0.8 cu.ft.	Piping	$\frac{3}{8}$ "
Tank diameter	10 $\frac{1}{2}$ "	Height	33"
Weight	45 lb.	Product number	601100

### ACCESSORIES & PARTS

#### INCLUDED



Ceramic nozzle  $\frac{1}{8}$ "  
# 605031



RCM-12 Remote Control  
# 602007



Protective hood  
# 603033



8' sandblasting hose  $\frac{3}{8}$ "  
#601112



Ball valve  $\frac{3}{8}$ "  
# 608005



Dehumidifier filter  
# 601119

#### OPTIONAL



10' sandblasting hose  $\frac{1}{2}$ " & connectors  
upgrade kit  
# 601116



Replacement shields  
# 613004





## PPB SERIES

PPB Series pressure blasters are designed for the most demanding sandblasting projects accomplished on-site or in a sandblasting facility. All our sandblasters are easy to maintain and can be equipped with an array of hoses and nozzles to achieve most complex sandblasting requirements.

With such a durable construction and heavy-duty piping, you can count on PPB series pressure blasters reliability for years.

### KEY FEATURES

- ✓ Tank capacities ranging from 3.5 to 10 cubic feet of abrasive
- ✓ Available in pressure released or continuous pressure configuration
- ✓ Remote control can be powered by compressed air (pneumatic) or electricity (12V DC or 120V AC)
- ✓ Heavy duty construction ASME and CRN registration approved
- ✓ Durable sealing plunger
- ✓ Stabilizing support frame which eliminates wheel fatigue and pot tip over
- ✓ Water separator for better sandblasting performance and lower maintenance required
- ✓ Large hand hole for easy access inside the tank
- ✓ Conical bottom to ease abrasive drain
- ✓ Large hard rubber wheels (except PPB-1046)
- ✓ Supplied with 55' dual-line nozzle control hose with handle and MMV-175 or PMV-186 abrasive regulator valve



### TECHNICAL SPECIFICATIONS

Description	PPB 346	PPB 646	PPB 1046
Loading capacity (A.S.M.E.)	3.5 ft <sup>3</sup>	6.5 ft <sup>3</sup>	10 ft <sup>3</sup>
Tank diameter	18"	24"	24"
Media Capacity (abrasive)	300 lb.	600 lb.	1,000 lb.
Dimensions ( L x H x W )	26"x 46"x 29"	32" x 50" x 35"	32" x 66" x 35"
Weight	225 lb.	350 lb.	575 lb.

### OPTIONAL STARTER KITS

#### Kit "S"



- 50 feet high quality sandblast hose
- Double Venturi boron carbide nozzle

#### Kit "X"

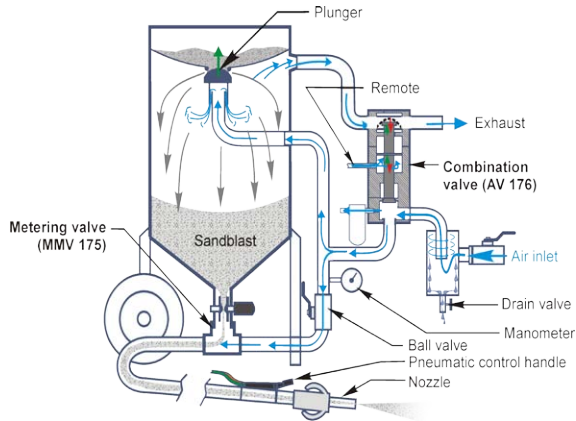


- Radex air purifier
- 50 feet of air hose to feed air between air purifier and protective hood
- Nova 3 air supplied hood with protective kit
- 50x Peeloff-Lenses



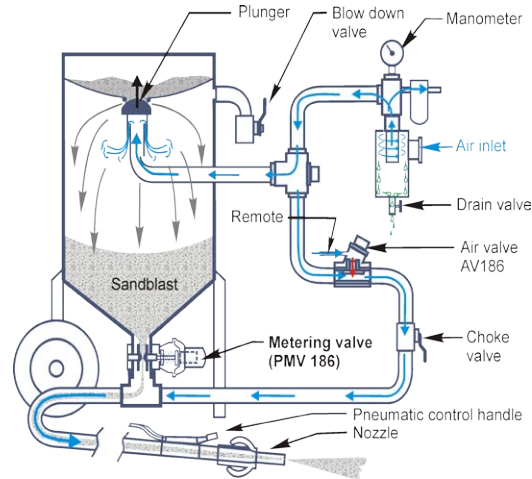
## HOW IT WORKS

You can choose between two configurations when you purchase a PPB Series pressure sandblaster. Sub slab depressurization system (RC-176) extends the blasting autonomy by automatically filling the tank while the machine is in standby while continuous pressure system (RC-186) facilitates frequent on/off jet blasting operations.



### RC-176 PRESSURE RELEASE SYSTEM

- ✓ Pressure vessel automatically depressurizes when blasting operation stop
- ✓ Automatic filling of the pressure vessel, without any intervention
- ✓ Less wear-and-tear on abrasive metering valve
- ✓ Simplified and cheaper maintenance



### RC-186 PRESSURE HOLD SYSTEM

- ✓ No depressurization when blasting operations stop
- ✓ Reduces air consumption
- ✓ Convenient for frequent start/stop operation
- ✓ Even abrasive flow when starting operation

## UPGRADE KIT

**Maxblast**  
series

### UPGRADE TO MAXBLAST FOR MORE POWER AND BLASTING SURFACE



Coupling



Automatic Air Valve

Maxblast upgrade kit includes an automatic air valve and connectors to fit a 1½" blast hose which increases air pressure at the nozzle, reduces pressure losses and increases operator's productivity.

### BENEFITS OF MAXBLAST

- Reduction of pressure losses from 24% to 27%
- Increase in productivity (blasting time) from 36% to 40%

Blasting Setup	Hose Length	Inlet Pressure	Blast Hose	Automatic Air Valves	Pressure at nozzle	Pressure Loss	Increase in Productivity
Standard	150'	124 psi	1¼"	Std. 1½"	90 psi	34 psi	N/A
MAXblast			1½"	MAXblast	114-117 psi	7-10 psi	36-40.5 %





## OPTIONAL ACCESSORIES



Breathable protective hoods  
(Nova 2000 & Nova 3)



GX4 Gas Monitor



Radex air purifier



Air dryer (desiccant)



Sandblast light  
(LED)



Blast suits



Hose couplings



Wide variety of ceramic, tungsten carbide,  
boron carbide, and silicon carbide nozzles



Wide selection of sandblast hoses



Wide selection of abrasive media  
sold in bags (55 lb), pallets (40 bags) or super bags (2,500 lb)



### AV-176 Combined valve



The AV-176 valve is a one-piece combination inlet and outlet valve utilized to control compressed air supply into and out of the blast pot.

A single piston assembly is utilized to both open and close the valve's inlet and outlet sections simultaneously. The valve is operated by an air pilot signal received when the operator activates the Control Handle.

In its un-activated state, a return spring is used to compress a diaphragm against the valves inlet port, preventing compressed air from entering the blast pot or blast hose.

### PMV-186 abrasive regulator



The PMV-186 abrasive regulator valve is designed to switch on/off the flow of abrasive, at the metering valve, before the mixing port on systems configured with pressure hold systems (RC-186).

### Abrasive metering valve MMV-175



The abrasive metering valve MMV-175 is a simple design air valve that offers a wide range of adjustment of abrasive flow.

## ABOUT THE COMPANY

### WHO WE ARE

IST is a leading industrial manufacturer of standard and custom engineered equipment for the surface treatment industry and the solvent recycling industry.

### MISSION

IST is dedicated to being an innovative and trusted supplier in the conception, fabrication and distribution of surface treatment equipment and recycling equipment.

### MARKETS SERVED

The products, technologies and industry expertise of IST are used in a wide range of manufacturing and industrial applications, including but not limited to :

- General Manufacturing
- Industrial Equipment
- Metal forming
- Aerospace and Aviation
- Rail and Transit
- Marine
- Automotive
- Petroleum
- Flexography (Labeling) & Lithography
- Wood finishing
- Power & Energy
- Pharmaceutical

