

CLOSED – CIRCUIT PRESSURE FED SANDBLASTING MACHINE - Mod. PR3

Application sectors

01.00	Carpentry, Boiler builders, Shipbuilding	✓
02.00	Rail industry, Production and Maintenance	✓
03.00	Foundry, Steel industry, Mining, Oil industry	✓
04.00	Inox manufacturing and furnishing	✓
05.00	Aviation industry	✓
06.00	Thermal treatment, Filling steel, Mechanics	✓
07.00	Car and motoring industry	✓
08.00	Internal and external pipes and cylinders sandblasting	✓
09.00	Plastic, Rubber and Galvanic	✓
10.00	Painting company and plants	✓
11.00	Glass industry	✓
12.00	Building and Road construction	✓
13.00	Nuclear energy	✓
14.00	Weapons industry	✓
15.00	Electromechanics and Electronics	✓

Important:

This machine requires only compressed air for its work.

Other applications:

- Preparation for welding, ship building
- Partial stripping of passengers rail cars
- Cleaning of molds and dies
- Roughening milling cylinders and graphics

Technical details



Picture of the sandblasting machine Mod. PR3

Technical details

Length	1100 mm.
Width	700 mm.
Height	1600 mm.
Weight without abrasive	150 kg.
Air consumption	2,8 m ³ / min.
Vacuum system	Air ejector
Blasting nozzle (tungsten carbide)	Ø 5 mm.
Standard hose length	6 mt.

Pressure pot capacity	24 lt.
Heavy abrasives	100 kg.
Light abrasives	50 kg.
Blasting cycle	
Heavy abrasives	10 ÷ 12 min.
Light abrasives	10 ÷ 15 min.
Advised abrasives sizes	
Chilled cast iron	G12.G07.G05.G02
Spherical iron grit	S390.S340.S240 S170.S120.S07
Aluminium oxide	14/24 24/30 30/40 40/60 (60/80)
Glass beads	400/800 400/600 250/400 (175/300)

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General information

General description:

- **GENERATOR:** is conveying the abrasive from the storage tank to the nozzle in blasting gun.
- **RECLAIMER:** is sucking abrasive, debris and dust, separating them according to their sizes, and keeping the abrasive clean and constant in size.
- **EJECTOR:** is producing the vacuum necessary to pick up the spent abrasive and debris from the blasted surface.
- **DUST COLLECTOR:** is filtering the air before to be released to the open air.
- **BLASTING GUN:** is producing the shot blasting and the instantaneous recovery of abrasive and debris on the area limited by the gun brush.
- **HOSES:** for abrasive feeding, recovery and control.
- **FRAME:** movable on rubber wheels.

Working principle:

The abrasive contained in the pressure pot is sent to the blasting nozzle through the adjustable feed valve. During the shot blasting operation the abrasive, the dust and debris are all continuously recovered and pneumatically conveyed to the reclaimer. The recovery vacuum is produced by an air ejector. All the materials that arrive to the recovery unit pass through a cyclone that separates the abrasive from the finest dust and debris that are conveyed to the filter: the clean abrasive is sieved, to separate it from the larger debris, and sent to the hopper, ready to be put back into circulation. The sandblasting and abrasive recovery operations are confined inside the brush head body, thus guaranteeing the absence of dust without the need for special protections. The “PR3” sanders, due to their versatility and easy transport, are increasingly used in finishing processes for entire surfaces or parts of them.

The closed circuit brush

The closed circuit brush:

The closed circuit brush includes:

- the body that together the brush holds the abrasive and debris during blasting;
- the inner cone, which creates a wall between flow of the outgoing nozzle abrasive and the recovery airflow of the abrasive and debris collected from the work surface;
- the blasting nozzle at the top of the gun body is inserted together with the air ejector nozzle in a separate block with connections for air supply pipes or abrasive delivery;
- normally is provided with a flat brush for regular or slightly irregular surfaces;
- in order to prevent wear of the “mouth” of the body of the brush, rubber inserts are provided.



The closed circuit brush