

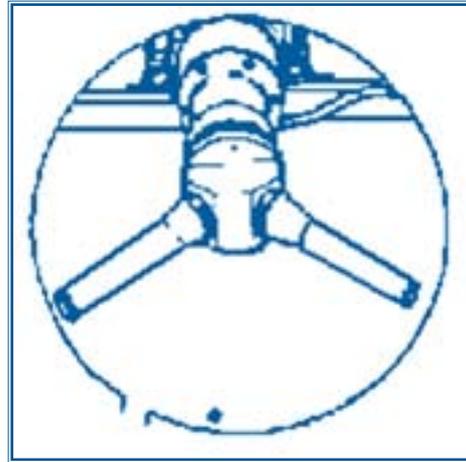


Compressed air activation

Application sectors

01.00	Carpentry, boiler builders, Shipbuilding	<input type="checkbox"/>
02.00	Rail industry, Production & maintenance	<input type="checkbox"/>
03.00	Foundry, Steel industry Mining and Oil industry	<input checked="" type="checkbox"/>
04.00	Inox manufacturing and furnishing	<input type="checkbox"/>
05.00	Aviation industry	<input type="checkbox"/>
06.00	Termal treatment, Filling steel, Mechanics	<input type="checkbox"/>
07.00	Car industry and Motoring industry	<input type="checkbox"/>
08.00	Internal and external pipes and cilinders sandblasting	<input checked="" type="checkbox"/>
09.00	Plastic, Rubber, Galvanic	<input type="checkbox"/>
10.00	Painting company and plants	<input type="checkbox"/>
11.00	Glass industry	<input type="checkbox"/>
12.00	Building and road construction	<input type="checkbox"/>
13.00	Nuclear energy	<input type="checkbox"/>
14.00	Armament industry	<input checked="" type="checkbox"/>
15.00	Electromechanics and Electronics	<input type="checkbox"/>

Equipment sheet



Internal pipe blasting ancillary equipment

Promeeco Engineering can propose various solutions for problems of mechanical pickling using the internal shot blasting of pipes, these solutions can be also various and different, accordingly with the type of applications and the productivity.

Mainly this application is done by a rotating nozzle that proceeds along the axles of the pipe with a speed opportunely chosen according to the thickness of the rust which have to be removed and the pipe diameters.

Technical information

Abrasive recovery

The most efficient system for the abrasive recovery is to use an air flux along the pipe, having a sufficient speed to convey the abrasive and debris.

Thanks to this device it is possible to treat the pipes in horizontal position or directly "in site".

Obviously this is possible according to the diameter of the pipe and it's possible to reach diameters of 150 mm approx. without the use of auxiliary devices.

To extend this operation to bigger diameters 3 systems can be adopted:

- 1) it can be made the gravity recovery
- 2) it can be use a supplementary air flux
- 3) where the diameter of the pipe is over 450 mm, it can be use the closed circuit sandblasting, introducing a particular sandblasting gun, whose seal with the surface to be treated is due to a circular brush.





Diameter of pipes

The diameter of the pipes, as above mentioned, influences the type of equipment to use.

Degree of rust

This factor doesn't influence so much the choice of the installation but the choice of the nozzle and the abrasive, and also the working angle of the nozzle.

Available techniques

To have a satisfactory surface mechanical pickling of pipes and to overcome the size limitations above mentioned, we have developed different working techniques.

In the table here under we resume the various methodologies of shot blasting and abrasive recovery in function of the diameter and form of the pipes.

SYSTEM	DIAMETER OF PIPES	FORM OF PIPES	ABRASIVE RECOVERY
> Blow-through	up to 76 mm	straight or curved	normally pneumatic by vacuum, the littlest pipes require the blowing by compressed air
> Pass-through	from 38 to 127 mm	straight or curved	normally pneumatic by vacuum
> Orbital head	from 76 to 150 mm	straight	pneumatic by vacuum
> Rotary head	from 150 to 610 mm	straight or lightly curved but only for biggest diameters	pneumatic by vacuum, or by gravity with inclined pipe
> Special rotary head	from 610 to 915 mm	straight	pneumatic by vacuum
> Rigid nozzle	from 650 to 915 mm	straight	pneumatic by vacuum
> Closed circuit head	over 457 mm	straight for inferior diameters, indifferent for biggest diameters	through head in closed circuit machines with brush PR 2 - PR 3 For information about machine see: 2. Closed - circuit suction fed sandblasting machines (PR2) 3. Closed - circuit pressure fed sandblasting machines (PR3)

