



SURFACE  
PREPARATION  
SPECIALIST

Plates,  
Profiles, Pipes  
and Steel  
Construction



**CYM MATERIALES S.A.**  
Industrial Solutions



Cym Materiales SA manufactures continuous flow equipment for **shot blasting welded structural shapes, profiles, bars, plates, steel strips and pipes** according to the needs of each customer.

The abrasive is propelled by centrifugal turbines. The number of turbines for each machine depends on the size of the parts to be blasted or the speed required.

In the **PER** and **CH** equipment lines, the blast wheels are located at 90 degrees from the parts pass-line, while in the **PER-I** and **EST** line, they are located at different abrasive projection angles.

The conveyors may be a parallel roller bed or an overhead rail conveyor that introduces the parts into the chamber continuously. The machine may be equipped with in-line painting to avoid costly secondary handling of the parts.

# Features Construction



## Maintenance Platform

- to access to the top elevator and air wash abrasive separator

## Air Wash Abrasive Separator

- Used abrasive and fines are stored behind a fixed, but adjustable metering gate. Abrasive and fines are allowed to fall in a uniform curtain through the airwash separation zone.



## Intermediate Gravitational Separator

- Increasing the air flow inside the cabinet without risk of carry good abrasive to the dust collector.



## Bi-directional Blast Wheel

- Located strategically with a correct distribution of the shot on the parts to be treated resulting in a better coverage and better performance of the machine
- Power ranging from 7.5 HP a 50 HP
- Direct drive or Belt drive according to customer request



## Dust Collector

- Maximum dust emission < 1 mgr/m3
- Easy replacement of cartridges
- Continuous cleaning system



## Roller Conveyor

- Robust and modular manufacturing for different ranges of lengths and weights
- Working speed Frequency-controlled gear motor
- Screw conveyor to return abrasives that can go along with the piece to the machine



## Control Panel

- According to IEC, Nema, UE
- Automatic PLC Control

## Blast Cabinet

- Inlet and outlet chambers with sealing curtains to minimize abrasive escape from the blast compartment
- Wide maintenance door for expedited and hassle free maintenance cabinet and curtains.
- Two layers of lining made of
  - Manganese Steel cover the totality of the cabinet
  - Second lining with high chrome in hot area



# Technical Data - Steel Construction Shotblasting System - PER I



Model	Blast Wheel		Section mm (*)		Material				Working Speed Mts. / min (**)
	Qty.	Hp	Width	High	Profile	Struct ures	Plates	Pipes Spool	
PER 4X4 I	4	10/20	400	400	X	X	X	X	0.4 a 5
PER 6X6 I	4	10/20	600	600	X	X	X	X	0.3 a 3.5
PER 6X15 I	4	10/20 30/40	600	1500	X	X	X	X	0.3 a 4
PER 12X12 I	4	10/20 30/40	1200	1200	X	X	X	X	0.2 a 3
PER 15X10 I	4	10/20 30/40	1500	1000	X	X	X	X	0.2 a 3
PER 15X15 I	4	10/20 30/40	1500	1500	X	X	X	X	0.2 a 2.7
PER 20X5 I	4	10/20 30/40	2000	500	X	X	X	X	0.2 a 2.5

## Note

(\*)The maximum parts pass size section and the production speed can be adapted to the customer precise requirement.

(\*\*)The production can vary depending the degree of rust, mill scale, and or other contaminants present

(\*\*\*)If the equipment you require is not in this catalog please contact our sales or engineering departments which will help to develop the best equipment to suit your needs with our goal to reduce operating costs and increase profitability in your production systems.

## Advantages of wheel blast machines:

- Alto volumen de producción, con mínimo costo operativo.
- Higher production volume, minimizing operating cost.
- Enhanced finish consistency of processed pieces.
- Automatic shot blasting process, which does not require skilled labor.
- With proper equipment operation, there are no health problems for the staff, or damage to the facilities.
- They do not pollute the environment





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