

A photograph of an industrial facility. In the foreground, numerous long, cylindrical metal tubes are stacked horizontally on a blue metal frame. The tubes are arranged in a grid-like pattern. In the background, there is a corrugated metal wall and a blue structure, possibly part of a shot blasting machine. The overall scene is industrial and well-lit.

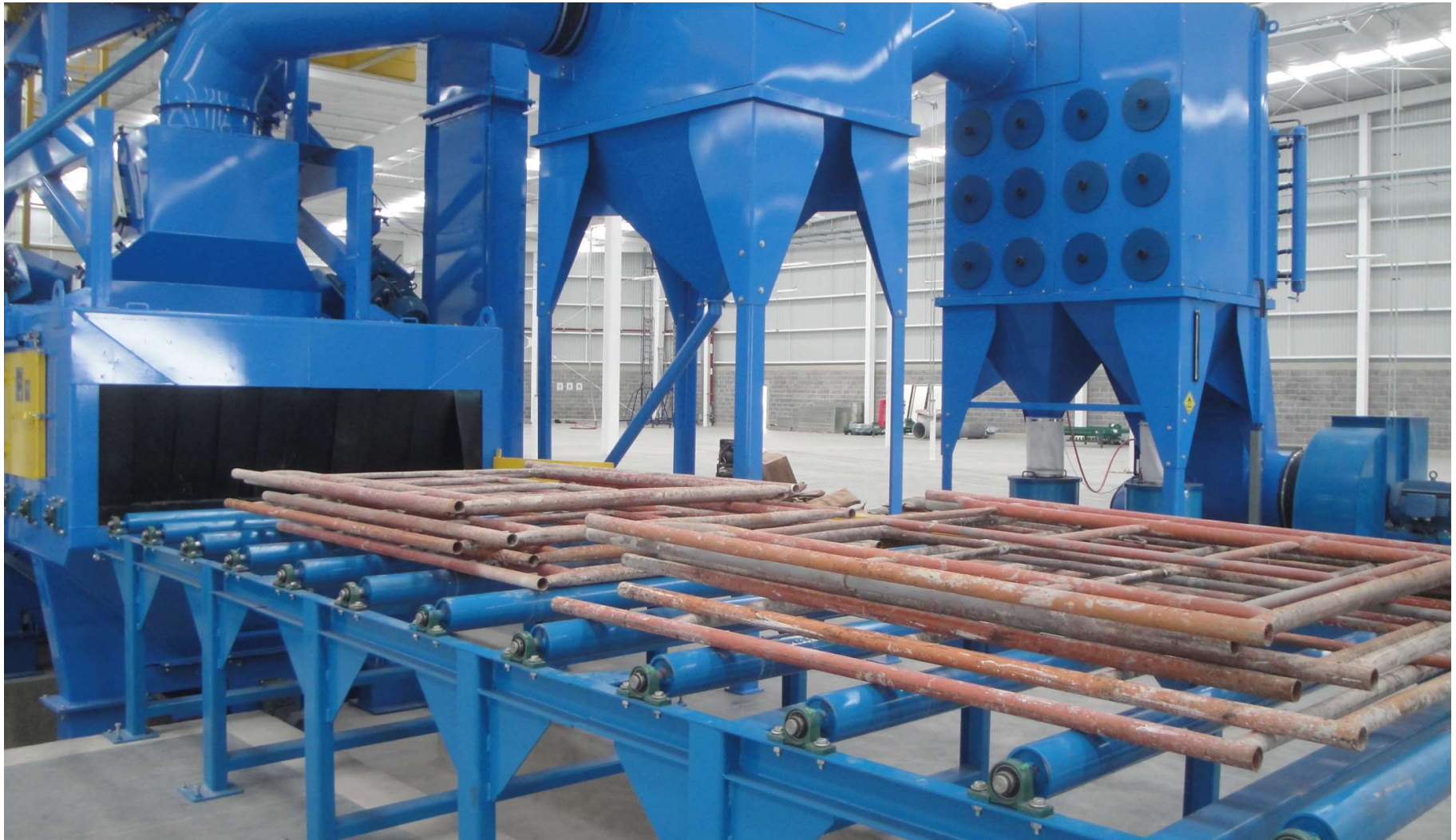
SURFACE  
PREPARATION  
SPECIALIST

Scaffold  
Tubes and  
Accessories  
Shot blasting  
equipment.



**CYM MATERIALES S.A**  
Industrial Solutions





Cym Materiales SA manufactures continuous flow equipment for **shot blasting welded scaffolding, metal formwork, planks, reins, walkways, ladders, props and related accessories** 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 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 conveyor that introduces the parts into the chamber continuously. The machine may also be equipped with in-line painting to avoid the secondary handling of the parts.

# Construction Features



## Maintenance Platform

- To access the top of the abrasive elevator and air wash 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 air wash separation zone.



## Intermediate Gravitation Separator

- Increasing the air flow inside the cab without the risk of carrying good abrasive the dust collector



## Bi-directional Blast Wheel

- Located strategically to enhance distribution of abrasive shot on the parts to be treated. This results in better, more consistent coverage and optimum machine performance.
- Power ranging from 7.5 HP to 50 HP
- Direct drive or belt drive according to customer request



## Dust Collector

- Maximum dust emission 1 mgr.
- Easy replacement cartridge
- Continuous self-clear system



## Roller Conveyor

- Robust and modern manufacturing for different ranges of lengths and weights
- Variable speed frequency controlled gear motor
- Screw conveyor to remove abrasives that carry out the exiting work piece



## 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 access to the cabinet and curtains.
- Two layers of lining made of
  - Manganese Steel covering the entire internal cabinet
  - Second lining of high chrome in hot (working) areas





# Technical Data - Scaffold Tubes and Accessories - Shotblasting System - EST



Model	Blast wheel		Section - mm (*)		Material				Working Speed Mts. / min (**)
	Qty.	Hp	Width	High	Profile	Struct ures	Plates	Pipes Spool	
PER 15 x 5 I	4	10/20/30	1500	500	X	X	X	X	0.2 a 5
PER 20 X 5 I	4	10/20/30	2000	500	X	X	X	X	0.2 a 5
EST 15 X 5	8	10/20/30	1500	500	X	X	X	X	0.3 a 5
EST 20 X 5	8	10/20/30	2000	500	X	X	X	X	0.3 a 5

Note:

(\*)The maximum part overall cross section and the production speed can be engineered to the customer's precise requirement.

(\*\*)The production speed will vary depending on the degree of rust, mill scale 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:

- Higher production volume, minimizing operating cost.
- Enhanced finish consistent of processed pieces.
- Automatic shot blasting process which does not require skilled labor.
- With proper equipment operation there are no health hazards to the staff or damage to the facilities.
- Environmentally friendly process that is safe for the environment





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