



SHOTBLASTING MACHINES

CONTINUOUS SPINNER HANGER



CYM MATERIALES S.A.
INDUSTRIAL SOLUTIONS

CONTINUOUS OVERHEAD RAIL BLAST MACHINES - TUN

CYM Materiales SA offers its customers a wide range of continuous spinner hanger shot blasting machine that fit their needs and that, thanks to their exclusive design, ensure high productivity at the lowest operating cost.

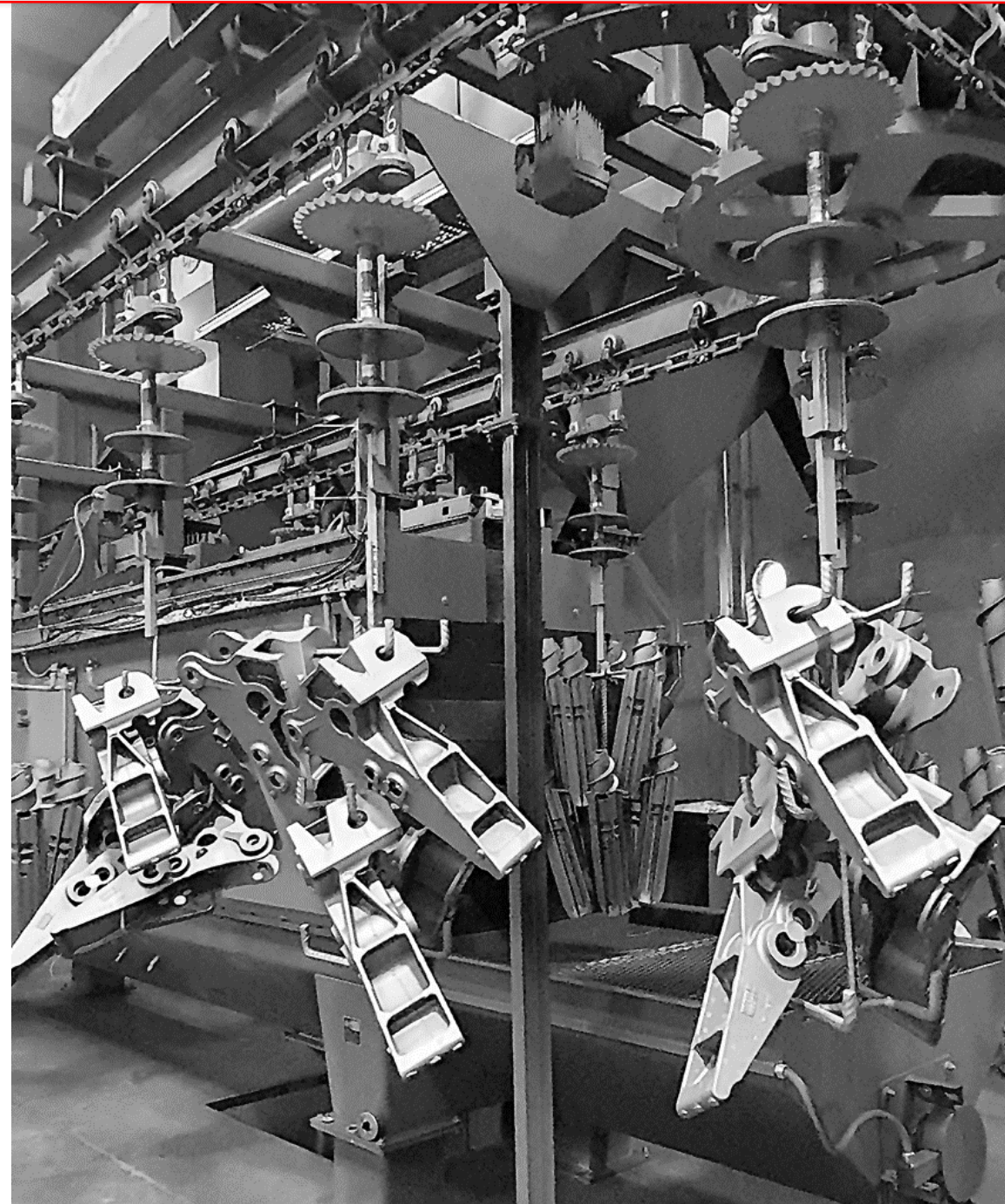
Hook shot blasting are characterized by their great versatility, allowing the same equipment to process different types of parts, from small and delicate materials that cannot be hit to parts that, due to their complexity, weight and size, cannot be shot blasted in equipment. of bulk cargo.

At CYM we have equipment to process different cargo volumes and weights and, according to the requirements of each client, we offer two conveyor advancement options:

- Multiple continuous passage hooks
- Multiple hooks of discontinuous passage

MAIN USES AND APPLICATIONS

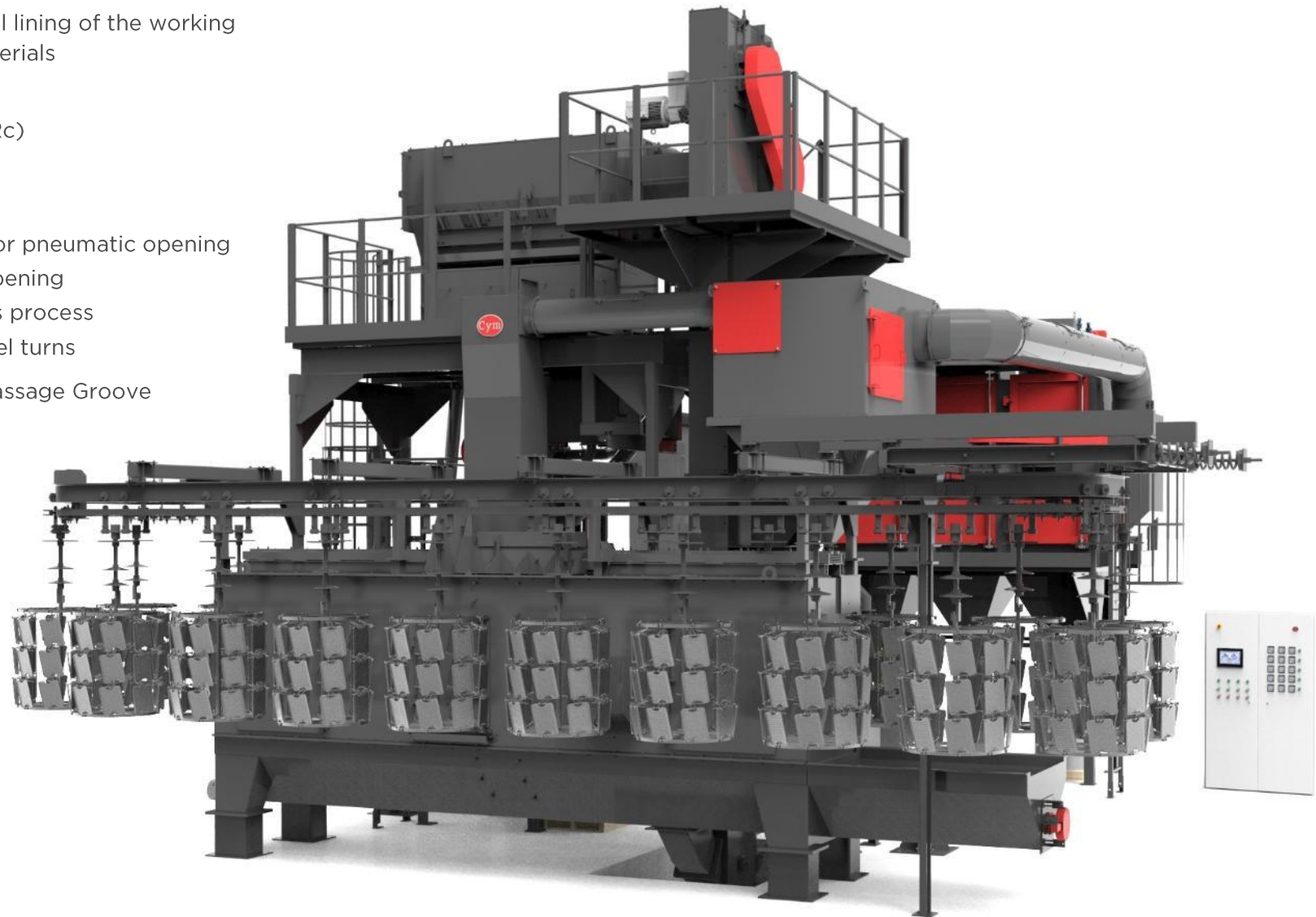
- Desanding of castings in ferrous metals and nonferrous.
- Surface preparation for paint, metallic, rubber, etc. applications.
- Pickling of forged parts or heat-treated parts.
- Deburring of metal and non-metal parts.
- Elimination of oxides and flakes.
- Shot peening processes.



FEATURES CONSTRUCTION

BLAST CABINET

- External structure with robust and compact design made of SAE1010 steel
- Different combinations of internal lining of the working chamber using the following materials
 - Abrasion resistant rubber
 - High Cr cast steel plates ($\geq 64Rc$)
 - MN Steel Plates (11% -14%)
- Entry / exit of hooks
 - Double leaf door with manual or pneumatic opening
 - Sliding door with motorized opening
 - Rubber curtains for continuous process
- Bottom auger with hardened steel turns
- Pneumatic lid for closing hook passage Groove
- Acoustic Protection



BLAST WHEEL

- Located strategically with a correct distribution of shot on the rod to be treated resulting in a better coverage and better performance of the machine
- Direct Drive from 10 HP up to 60 HP
- Housing manufacture in MN (11-14%) steel Forming together with the internal liners and double resistant wear wall
- High chrome steel Internal liners ($\geq 64Rc$). Liners attached by screw with hardened cast steel head cover for abrasion protection
- Positioning and fixing system for control cage, eliminates the risk of incorrect adjustment of the hot spot.
- Labyrinth seal of abrasive between engine coupling and housing with possibility to mount the turbines in any position



ABRASIVE RECOVERY SYSTEM

Elevador de cangilones.

Purificador de abrasivo de alta eficiencia y simple regulación para separación de partículas finas mantiene constante la mezcla operativa de trabajo.

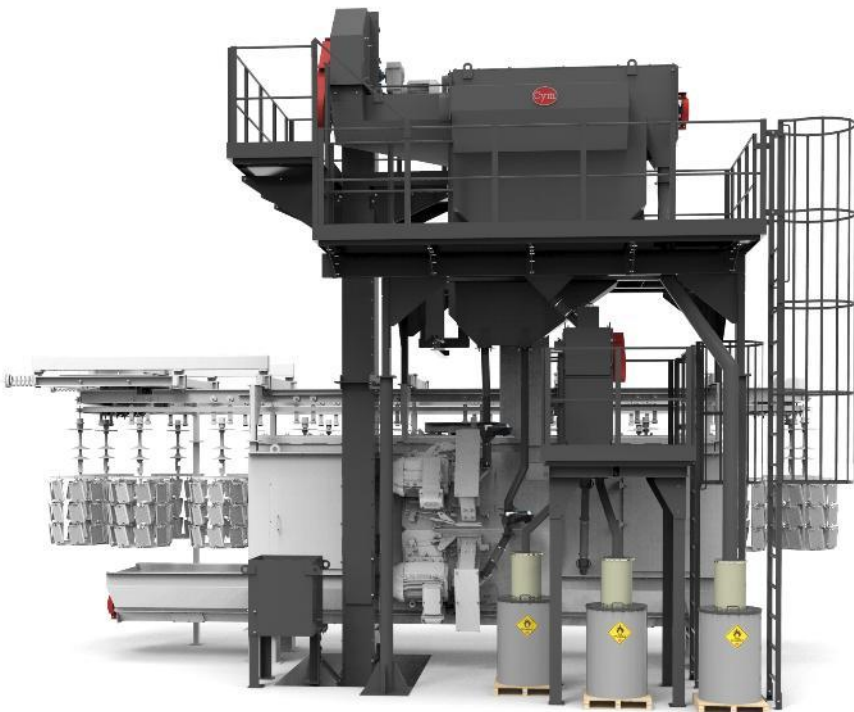
Silo de acumulación de abrasivo.

Válvulas de control de flujo de abrasivo.

Plataforma de mantenimiento.

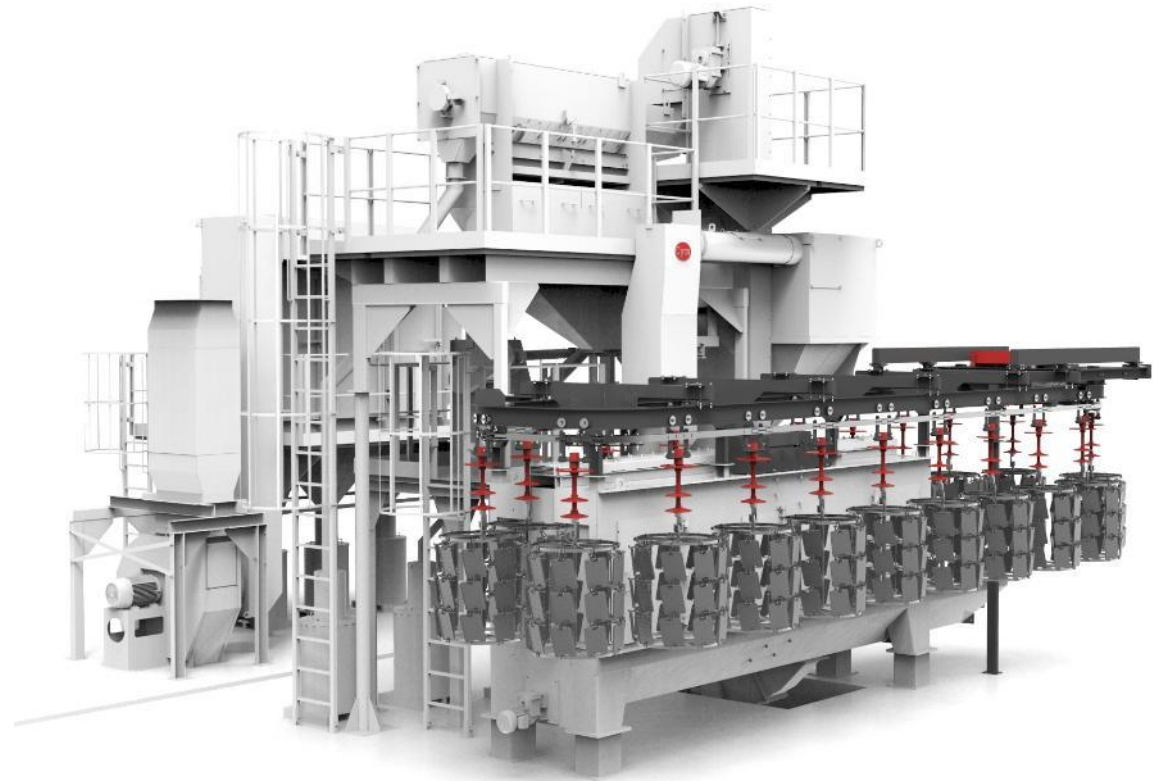
Opcionales

- Self-cleaning rotary sieve, automatically removes large particles that the shot mixture may bring.
- Magnetic sand separator.
- Automatic Abrasive Regeneration
- Automatic abrasive curtain formation adjustment system including sensors and airflow monitoring, all controlled from the HMI



OVER HEAD WORK CONVEYOR

- Continuous or discontinuous conveyor advance
- Rotation and displacement of the hook in front of the shot beam
- Height change options
 - Facilitates loading and unloading of parts
 - Does not require a pit (civil works)
- Load capacity of hooks according to customer requirements
- Variable Hook Rotation Speed



DUST COLLECTOR

- Manufactured with mild steel - 3,2 mm thick
- Cartridge media cleaning: reverse Pulse jet
- Easy replacement of cartridges
- Emission: $\leq 1 \text{ mg/m}^3$
- Efficiency $\geq 0.5 \text{ micron} / 99.9\%$
- Ducts to connect to the cabinet.
- Manometer.
- Intermediate gravitational separator located between blast cabinet and dust collector allows for increasing the air flow inside the cabinet without risk of carrying good abrasive to the dust collector drum
- Optional
 - Silencer and Mineral wool cover kit to reduce noise $\leq 85\text{dBA}$ a 1.52m
 - Maintenance platform



ELECTRIC COMPONENT

- Control panel for operation control
- Components and motors: according to customer requirement IEC, Nema, UL, etc.
- PLC control: Siemens
- Emergency stop button: included
- Wire cables to connect control panel and motors
- Optional
 - Movement sensor motors
 - Cooling
 - Soft Start motors

TECHNICAL DATA - OVERHEAD RAIL MACHINE - TUN

Models	Blast Wheels			Load Capacity		
	Qty.	Power		Kilos (*)	Diameter (mm)	High (mm)
		HP	Kw			
TUN 8X10	2	5.5 to 60	4.1 to 45	As required by the client	800	1000
TUN 8X14					800	1400
TUN 12X14					1200	1400
TUN 14X16	3				1400	1600
TUN 18X18					1800	1800
TUN 20X30					2000	3000
TUN 13x17	8				1300	1700

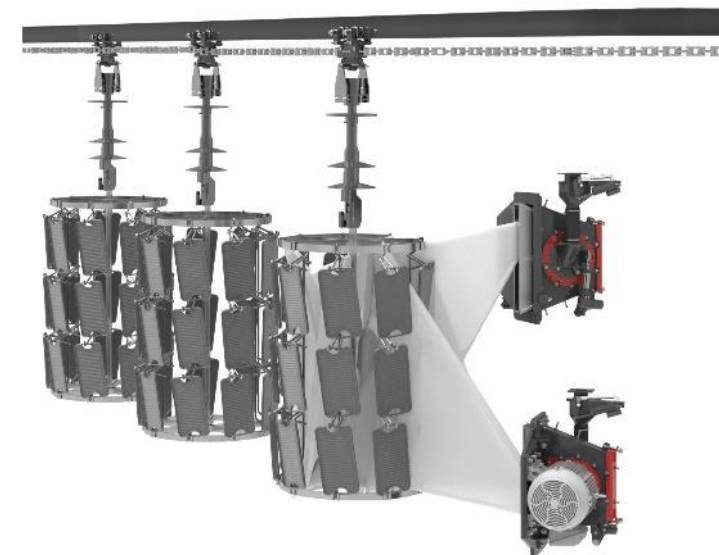
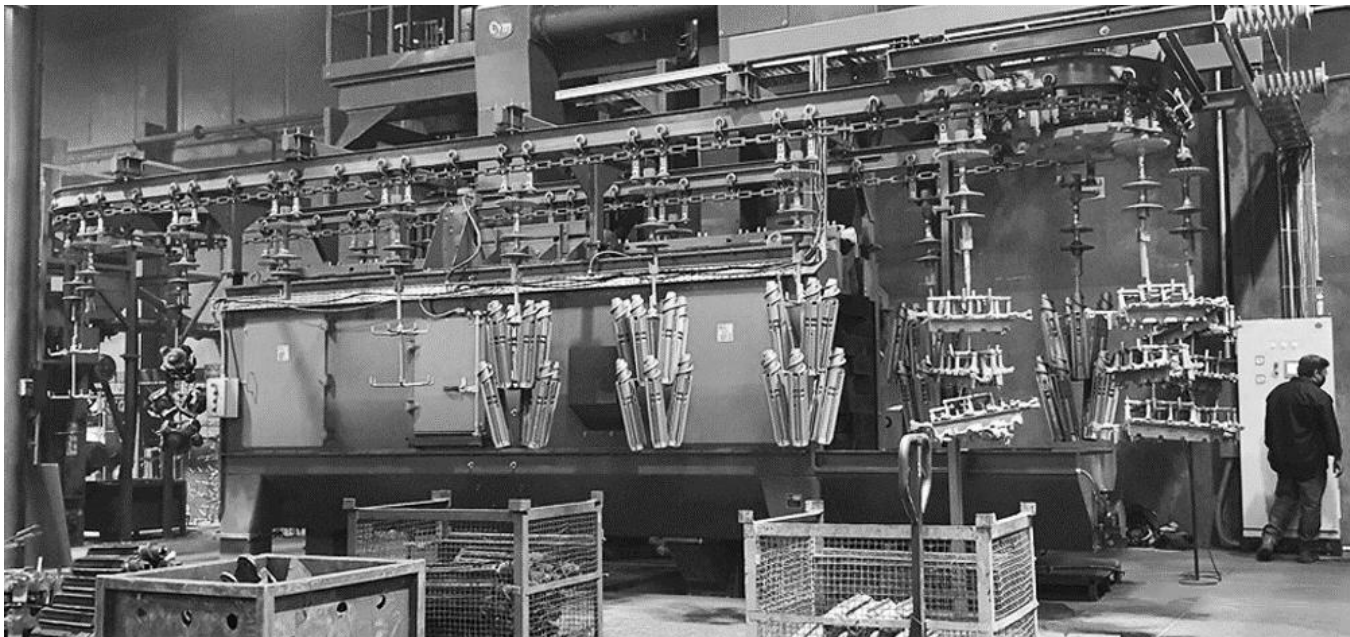
ADVANTAGES OF USING CYM SHOT BLASTING MACHINES

- Allow to process all kind of pieces, high volume with low cost.
- Excellent homogeneity of completion in the processed parts.
- Automatic process does not require specialized labor.
- Using continuous air conveyor allows to process parts in suspended load in line with painting processes.
- It does not contaminate the environment

Note:

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

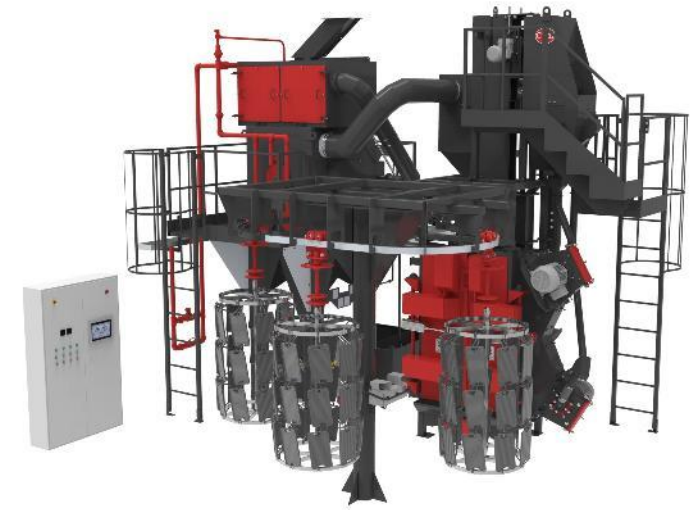
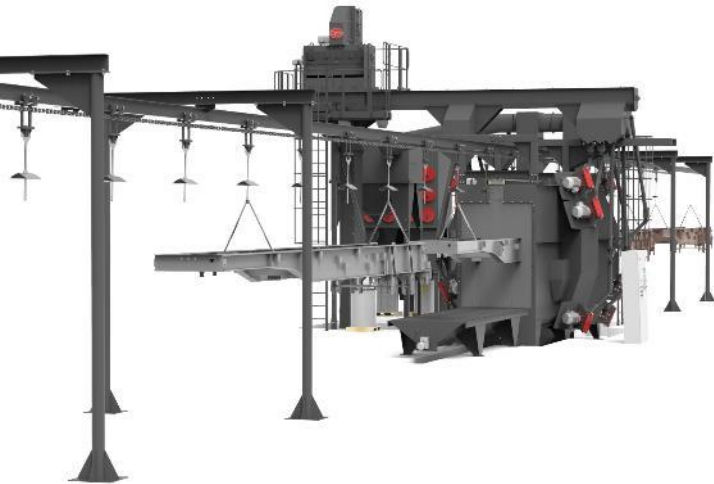
(**) The production can vary depending on the degree of rust, mill scale, and or other contaminants present



OTHER SHOT BLASTING EQUIPMENT USED IN THE STEEL INDUSTRY

SPINNER HANGER - CAB LINE

The CAB hook shot blasting lines are characterized by their great versatility, Spinner hanger are versatile since they allow processing different kinds of components, such as small and sensitive parts as well as more complex parts which may be heavy or large and therefore not suitable for tumbling in tumblast machine.



SPINNER HANGER TUNNELS - PER AND EST LINE

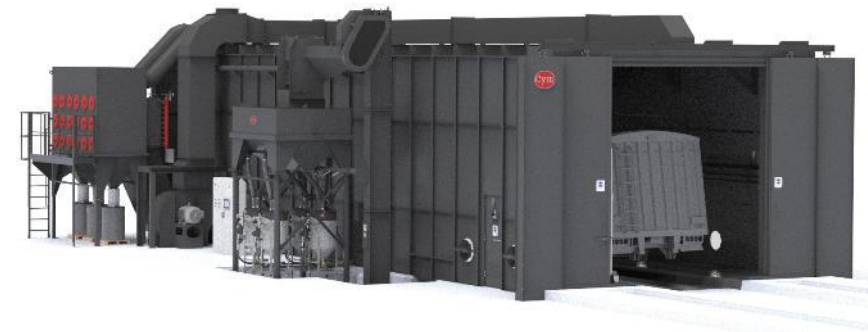
Recommended for processes that require work flexibility, they allow different sizes and types of parts to be processed.

Depending on the model, the equipment is equipped with 4 to 16 blasting turbines.

Continuous passage shot blasting tunnels also allow the processing of parts that will later be painted using the same overhead conveyor for both processes, avoiding unnecessary handling of parts.

BLAST ROOMS

- Flexible blasting process allows to process all kinds of pieces that, due to their size or complexity, cannot be processed in automatic shot blasting machines
- One or more operators are inside the blast room during the blasting process using pressure blast pot to project the abrasive.
- In combination with nozzle manipulators installed in the blast room, surfaces can be automatically processed





FACTORY AND HEADQUARTERS

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