



IFS

Sand it!

- *AIR-BLASTING EQUIPMENTS*
- *SHOTPEENING EQUIPMENTS*
- *CUSTOMIZED SOLUTIONS*

A stylized world map in a vibrant yellow color, centered on the Atlantic Ocean. The map is overlaid on a dark background and is partially framed by a thick, curved yellow line that sweeps across the right side of the page.

A Worldwide Experienced Team
Generating
World Class
EXCELLENT TECHNOLOGY

THE YELLOW POWER

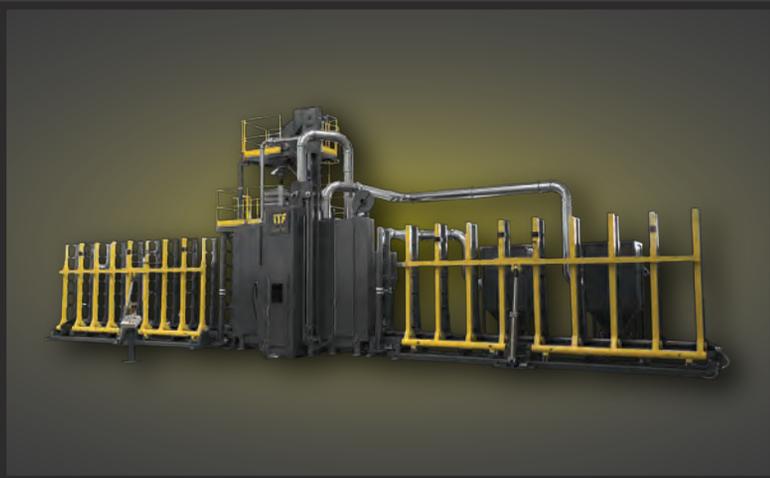
HORIZONTAL ROLLER CONVEYOR PRP - 0



Roller conveyor air-blasting machines are designed to treat long pieces in passage with any type of shot (both metallic and mineral source). The machine is equipped with a roller conveyor that allow the entry/exit of the workpieces inside/outside the blasting chamber. The boron carbide nozzles are driven by a gantry (or by several of them) with one or two axes of movement that allows to follow the profile of the piece. Horizontal flat rollers transport the pieces directly or on a flat container. Alternatively it is possible to add a series of rubber belt to create a working plane with high drainage to place parts on it (trays or baking molds for example). This machine can also be equipped with a manual retouch station.

VERTICAL ROLLER CONVEYOR PRP - V

Shot blasting machines with vertical roller conveyor are designed to treat metallic plates (vertically positioned) in pass-through mode, through the use of any type of shot (steel shot, cylinders, corundum, glass beads, ceramic beads). The machine is equipped with a V rollers conveyor that allows to entry/exit the metal plates inside/outside the blasting chamber, supported and guided by a series of idle wheels (positioned along the entire height of 3 meters). The loading/unloading conveyors can be equipped with hydraulic tilting units in case the plates need to be loaded horizontally. The nozzles are handled by two gantry (one for each side of the plate) with one axis movement (synchronized movement). The number of nozzles is defined according to the production rate and the coverage to achieve. The machine can be equipped with Pressure Technology (double vessel necessary for the presence of long continuous cycles) or Injection Technology (Venturi principle). In some cases it is possible to automatically manage and select multiple sizes of same type of shot (controlled roughening).



MULTIPLE STATION TUNNEL FOR WATER HEATERS PWH

Multiple stations tunnel blasting systems are specially designed for the inner surface treatment of domestic water heaters (boilers). The parts are handled by an overhead conveyor. The chamber is composed by a series of stations (from 5 to 12 stations) and each one is equipped with a centering and locking device. A special rotating lance is placed under each station. A motorized trolley (equipped with inverter) controls the vertical movement of the lance. The rotating lance guarantees a perfect coverage of the internal surface of the tank. Each station (or group of stations) is dedicated to a specific area of the water heater (specific nozzles). The shots are recirculated and brought to a double pressure vessel able to guarantee a constant and continuous flow of grit inside the lances. These equipments can be placed in-line with the coating system and furnace.



TUMBLE BELT PBG



Tumble belt shotblasting machines allow to process medium-small pieces in tumbling mode. A loading skip (hydraulically operated) permit to transfer the pieces, contained in a box, inside the work chamber. The belt placed in the chamber has a special cradle shape that allows to contain the pieces and, during its rotation, generate a continuous mixing (possible loading volume from 100 up to 500 liters). The system can be equipped with Pressure Technology (single or double pressure vessel) or with Injection Technology (Venturi principle). A trolley, located on the roof of the cabin, allows the oscillation of the nozzles along the entire width of the belt. Once the shot blasting cycle ends, the belt continues its movement to empty the pieces from the residual shot and subsequently reverses the direction of rotation (while door is open) to unload automatically all the pieces.



Air-blasting machines with rotating satellites are designed for the shot blasting of sensitive parts in singular mode with any type of shot. The machine is equipped with a main indexed table that allows the entry/exit of the parts inside/outside the cabin. The main table is equipped with 2 or 4 satellites. One satellite is dedicated to loading / unloading operations, while the others are dedicated to the sandblasting/peening or blowing process. The nozzles are handled by a single/double axis gantry or a robot. This machine is useful for both manual and automatic loading / unloading operations. The machine can be equipped with up to three robots (two for the sandblasting / deflashing / shot peening process and one for the blowing process). The equipment can store and automatically manage different shots (one for each robot with automatic sorting and cleaning circuit).



ROTATING SATELLITES PTR-S



AUTOMATIC SHOTPEENING SOLUTIONS



The great flexibility of the Company allows to design both standard and special systems according to the customer's needs. One of the many examples is the production of controlled shot-peening systems in the Aerospace, Automotive and Power Generation sectors. All the systems adopt the technology of the double compressed air vessel (to guarantee the constant flow of shot along the entire cycle of work) and each peening line is equipped with magnetic valves to control the flow. It is possible to manage different types of shots in the same plant (or different sizes of same shots to be used independently). The movement of the nozzles is managed by a multiple axes gantry (equipped with brushless motors) or by robots to follow more efficiently the profile of complex surfaces.



NOT JUST A PRODUCT BUT INTEGRATED SOLUTION AND SERVICES



Spray washing systems

Our products includes modified alcohol plants, water based plants, alcohol-water mixed plants and plants with chlorinated solvents. Therefore, we have the ability to recommend the correct solution and the system suitable for the real needs and to satisfy the customer's production request and feel forced to push a single type of product, i.e. water or solvent. We have a wide range of industrial washing systems (not laundry machines), advising each individual customer not only the most appropriate washing cycle, but the correct process for the best expected result. Each customer, has a type of component to be decontaminated, that needs an ad-hoc solution, and this is why we associate the correct process, be it alcohol, water or solvent, with the type of pollutant to be removed. All our systems have always been able to satisfy the most complicated needs and the most stringent washing requirements. All our systems meet the most current standards: national and international, to protect operators and protect the environment, a responsibility that depends on us all.



Ultrasonic and spraying washing machines



Water jet robotic deburring systems



Modified Alcohol washing solutions



Industrial automation