



**MEC SHOT BLASTING
EQUIPMENTS PVT. LTD.**

[An ISO 9001:2015 & 14001:2015 Certified Company]

Preservation Line For Shipyard

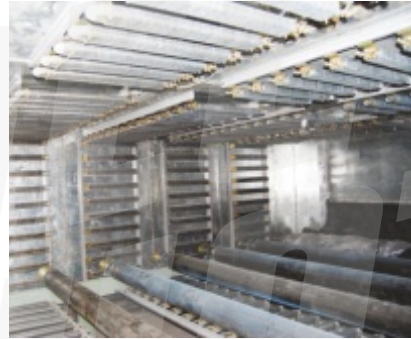


In Shipyard or Marine Industries bulk size of steel plates and structures are used. As the ships have to float on sea-water the hull and side wall's steel structure remains dipped in salty water of sea. To increase the resistance of these structure requires special engineering technique. MEC SHOT helps marine industries by providing inline Surface Treatment Systems (STS) in preservation Line.

MEC SHOT STS includes pre-heat treatment for plates, blast cleaning chamber, blow off chamber, painting Chamber with Flash Off Zone for drying and Baking Chamber for baking the primed surface of thick plates.

Pre Heating System

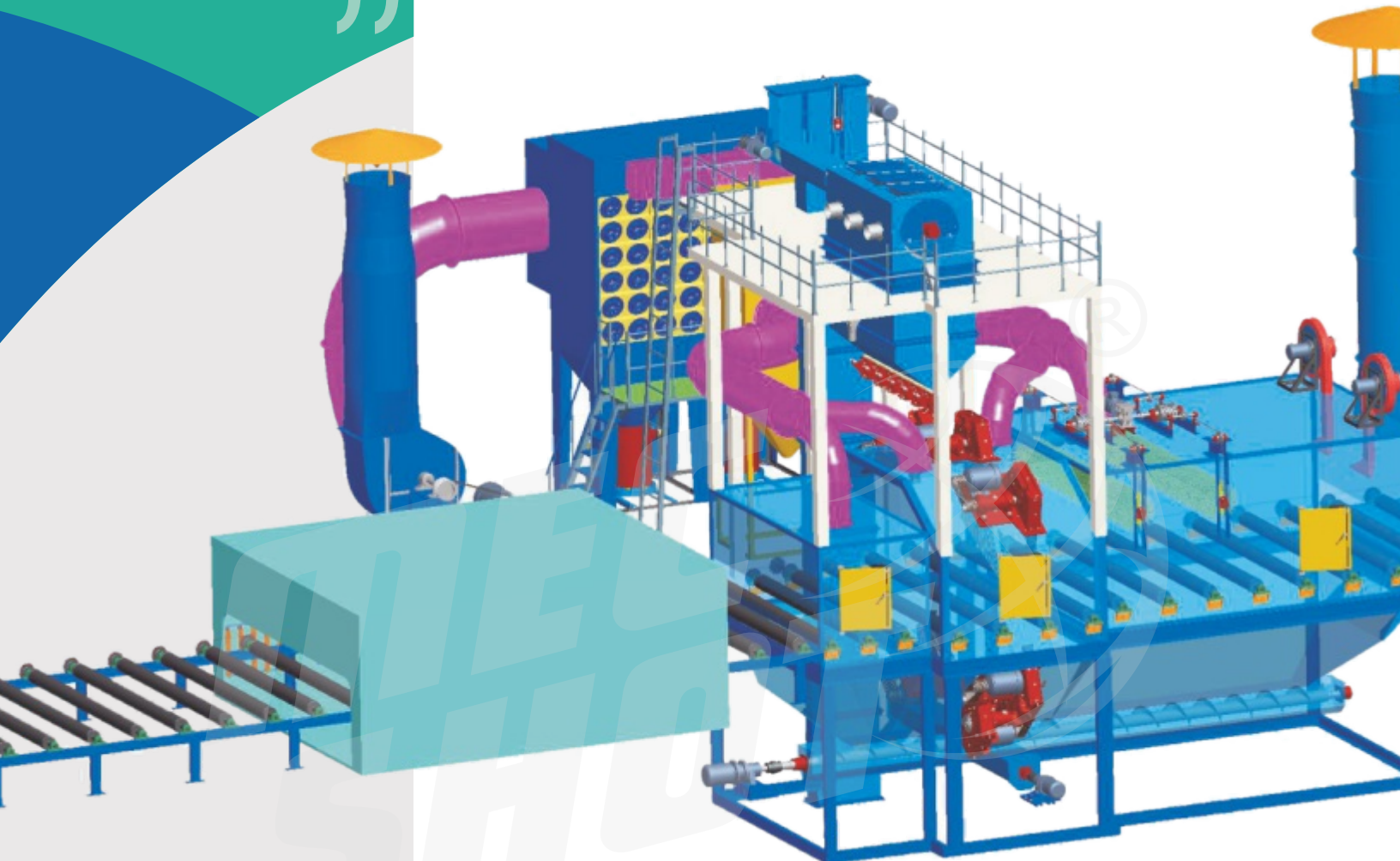
Electric Operated Convection Heating Oven with both open end to facilitate entry & exist of thick plate. Suitable for continuous operation. Maximum up to temperature of 60°C to eliminate the moisture from the job & assist in descaling of as well.



BLASTING SYSTEM

The plate is kept on the inward side of the roller conveyor. The steel plates pass through inward tunnel and enter into the blasting chamber for blasting purpose. Nos. of blast wheel stations are located strategically around the cabinet fires shots on the components.

The plates are shot blasted homogeneously on all side. The blasted plates moves forward and enters into outlet vestibules tunnel. A blower constantly blow-off abrasive accumulated on the blasted plates. The air washed and duly shot blasted plates come out from the tunnel to get painted in online painting chamber.

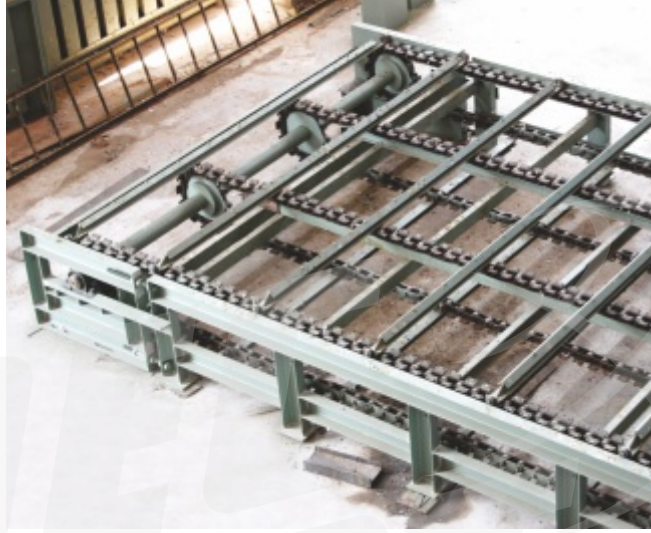


MEC SHOT PRESERVATION LINE



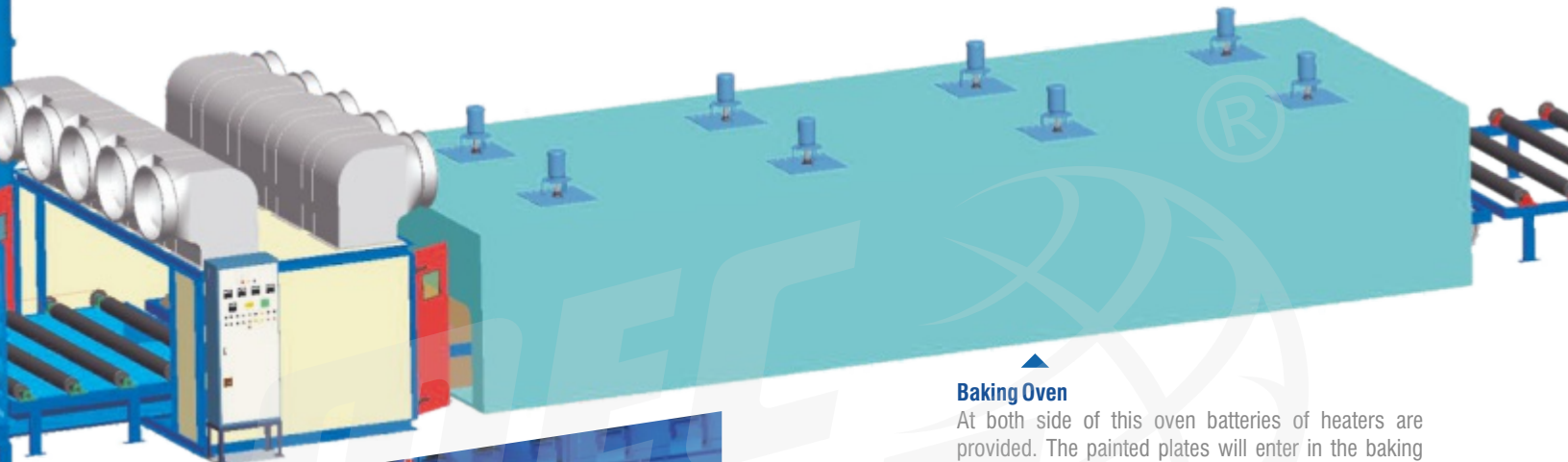
Dust Collector

The Reverse jet filter cartridge dust collector is self cleaning system. All filter elements are automatically cleaned with the aid of timer card and solenoid valves. Anti-explosion vent is to be provided.



Painting Chamber

The Semi Down Draft Paint Spray Chamber is suitable for conventional, airless and electrostatic spray painting. It consists of painting chamber, Inlet Air Filter, Paint Trap Filters, axial flow Fan, electric motor, duct and canopy etc. As the job passes through paint booth on Slat Conveyor, the reciprocating painting guns mounted on X manipulator will paint the plates from both sides.



Baking Oven

At both side of this oven batteries of heaters are provided. The painted plates will enter in the baking oven where those painted plates will get baked. The temperature of baking oven is displaced through digital display type temperature controller along with PT-100 sensing probe for highest degree of temperature control depending on requirement.



Control Panel

The complete process is PLC controlled for various parameter & repeatability of process. The system is environment friendly.



New Features



Zero Speed Sensors for positive drives of screw and bucket elevator motors positive drive sensors have been provided.

Job Presence Sensors physical job presence sensors on the roller conveyer will signal for shot flow.

Job Thickness Sensors allows the settings of rollers brush wiper and blow fan.

Job Width Sensors controls the Airless Painting Guns Stroke.



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