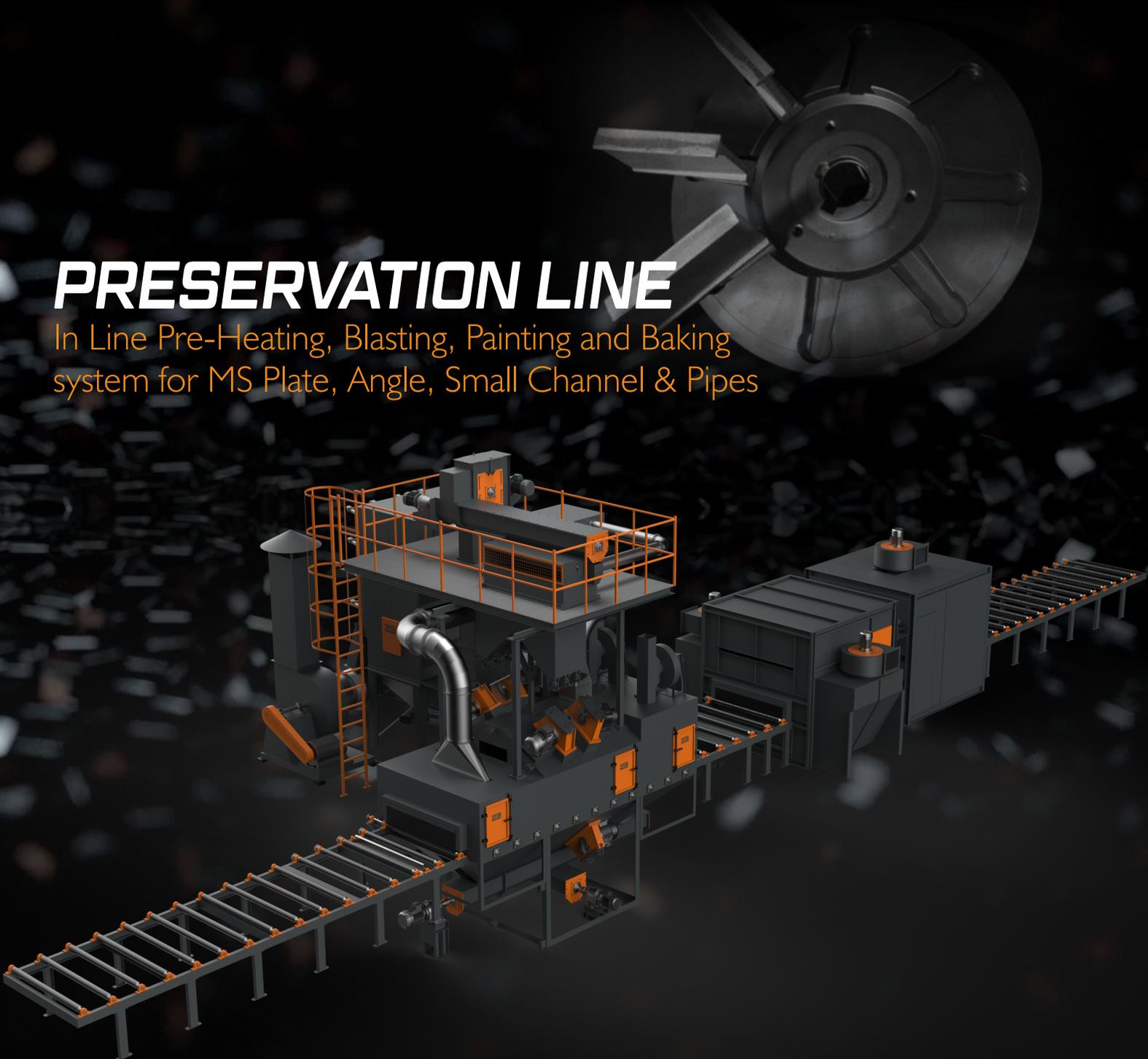




# **PRESERVATION LINE**

In Line Pre-Heating, Blasting, Painting and Baking system for MS Plate, Angle, Small Channel & Pipes



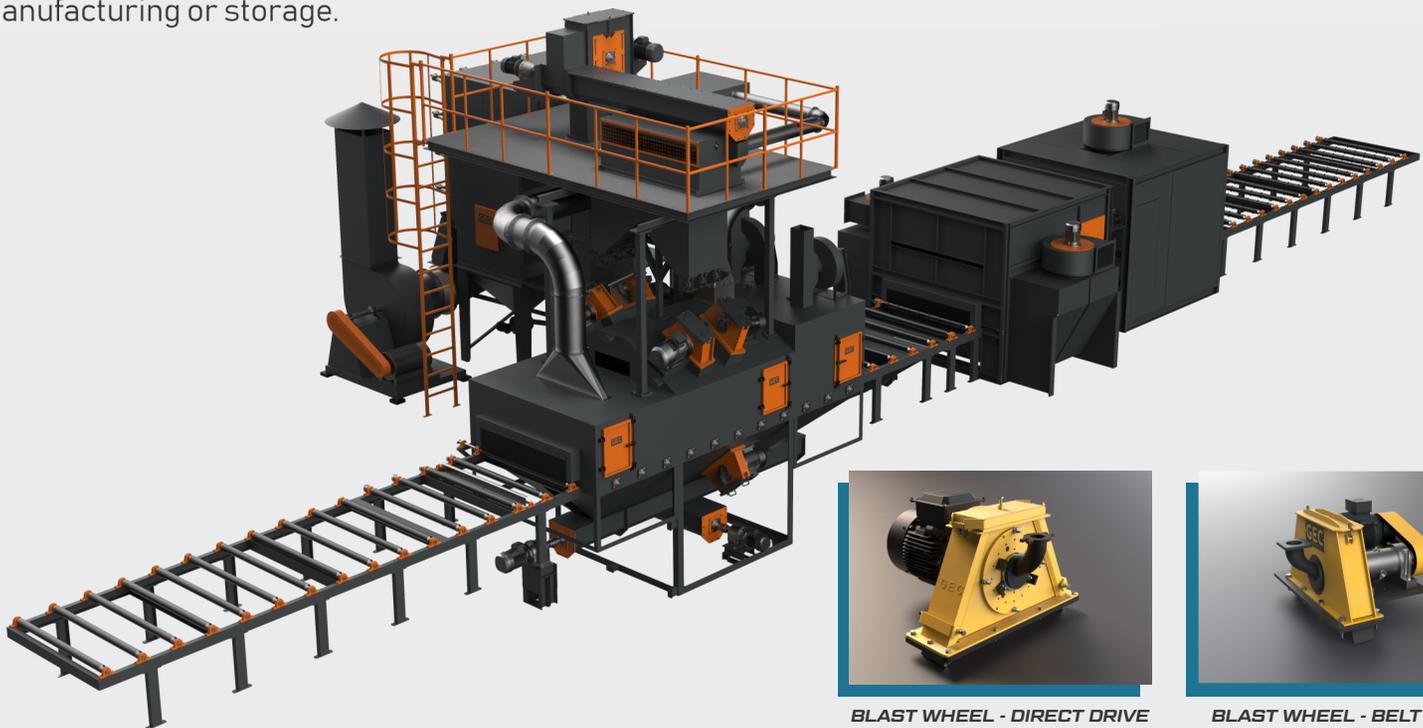
## **PRESERVATION LINE**

A Plate Preservation Line refers to a specialized system used for the preservation and protection of steel plates before further processing or storage. This line is designed to prevent corrosion and damage to the plates during transportation, handling, and storage.

The GEC Plate Preservation Line typically consists of various components and processes. It starts with the loading of steel plates onto a conveyor system, which moves them through a series of surface treatment stages. These stages may include processes such as shot blasting, priming, drying, and cooling.

Shot blasting is performed to remove rust, scale, and other contaminants from the plate surface, ensuring a clean and properly prepared surface for subsequent coating or painting. Priming involves the application of a protective coating or primer to prevent corrosion. Drying and cooling processes are employed to ensure proper curing and preservation of the applied coatings.

GEC Plate Preservation Lines are commonly used in industries such as steel manufacturing, shipbuilding, construction, and metal fabrication, where large quantities of steel plates are processed and preserved. These lines help maintain the quality and integrity of the plates, ensuring they are ready for further manufacturing or storage.



### **The components of a plate preservation line, typically include:**

**Pre-heating:** The steel plates are subjected to pre-heating to remove any moisture or contaminants and raise their temperature to the desired level.

**Shot blasting:** The pre-heated plates are passed through a shot blasting chamber where abrasive particles

are propelled at high speed onto the plate surface. This process removes rust, scale, and other contaminants, ensuring a clean and roughened surface for optimal coating adhesion.

**Priming:** After shot blasting, the plates move to the priming stage where a protective coating or primer is applied. The primer helps to prevent corrosion and enhances the adhesion of subsequent coatings.

**Drying:** Once the plates are primed, they proceed to a drying chamber or oven where heated air is circulated to remove moisture and facilitate the curing of the primer. This ensures that the primer forms a durable and protective layer on the plate surface.



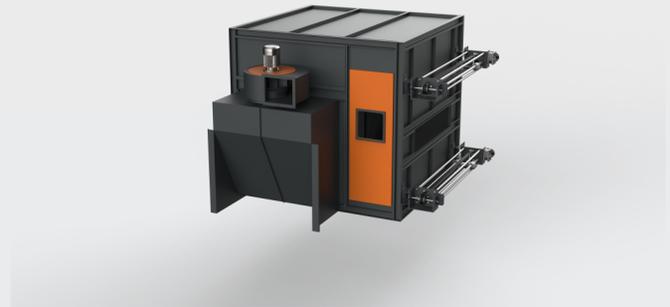
## → **Blasting Chamber**

"The GEC Preservation Line Blasting Chamber is a fully enclosed, high-durability steel structure designed for efficient surface preparation. Equipped with high-performance turbines, wear-resistant linings, and advanced dust extraction, it ensures consistent blasting quality while maintaining a clean and safe working environment. The chamber's robust design minimizes maintenance needs and maximizes throughput for steel plates, profiles, and structural components."



## → **Paint Spray Chamber**

GEC Paint Spray Chamber – A fully enclosed, dust-free spraying environment designed for precision coating application. Equipped with high-efficiency air filtration, controlled airflow, and overspray extraction systems, it ensures a clean finish, consistent paint quality, and minimal material wastage while maintaining operator safety.



## → **Dust Collector**

The GEC Dust Collector is a high-efficiency filtration system designed to capture and remove airborne dust, fines, and abrasive particles generated during blasting and surface preparation processes. Built with a robust steel body, heavy-duty fan, and multi-stage filtration units (including cartridge or bag filters), it ensures clean air output and compliance with environmental standards. Its modular design allows easy maintenance, while automatic pulse-jet cleaning keeps filters performing at peak efficiency, ensuring longer service life and consistent suction power.



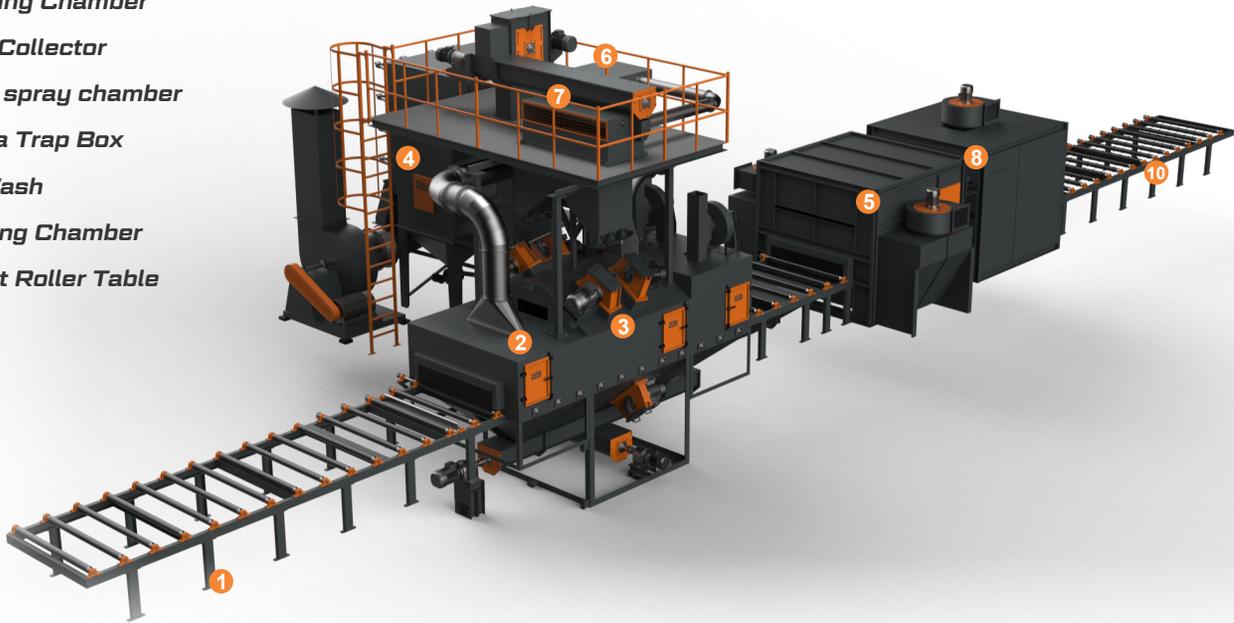
## → **Air Wash**

"GEC Air Wash system uses a powerful stream of compressed air to remove loose dust, abrasive residues, and fine particles from workpieces before further processing, ensuring a cleaner surface and improved coating adhesion."



# Machine components

1. Inlet Roller Conveyor
2. Inlet -Vestbule
3. Blasting Chamber
4. Dust Collector
5. Paint spray chamber
6. Media Trap Box
7. Air Wash
8. Heating Chamber
9. Outlet Roller Table



## TECHNICAL SPECIFICATION

Examples of Adjustment of Turbines	TYPE	MAX.PROFILE WIDTH	MAX.SHEET WIDTH	TURBINE	DUST REMOVAL PERFORMANCE
	GEC - 800	600	800	4	4000/4800
	GEC - 1250	1000	1250	4	6000/7500
	GEC - 1500	1150	1500	4	7500/9600
	GEC - 2100	1800	2100	6	12000/15000
	GEC - 2600	2300	2600	6	18900
	GEC - 3100	2700	3100	6	24000
	GEC - 3600	3100	3600	8	30000

Note :- We also design & manufacture machine as per your requirement.

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