

Phosphating and Pre-treatment Plants





About Gala

Gala Precision Engineering is a vibrant organization with a young team. We follow principles of entrepreneurial professionalism and serve global markets.

The company is a leader in Disc Springs, Assemblies and Surface Engineering Solutions in India.

The company designs and manufactures integrated systems for Mass Finishing, Washing & Cleaning for a wide variety of applications in Automotive, Defense and General Engineering segments.

Automatic Pre-treatment & Passivation Plants

Pre-treatment plants are used for high production requirements for pre-cleaning process before painting, coating, plating etc.

This is essentially a pre-cleaning stage consisting degreasing & derusting to remove all contamination from the surface of components. Water rinsing is added after each solution treatment stage.

Passivation is carried out to increase corrosion resistance of stainless steels. Passivation is the treatment of the surface of stainless steels, often with acid solutions (or pastes), to remove contaminant and promote the formation of the passive film on a freshly created surface (e.g through grinding, machining or mechanical damage).

It is essential that all acids are thoroughly removed by rinsing the components after completing the process.

Gala provides fully automatic integrated pre-treatment & passivation plants. These plants are custom made to suit unique requirements of each customer.

We offer features like Basket rotation & Walking beam type material handling.

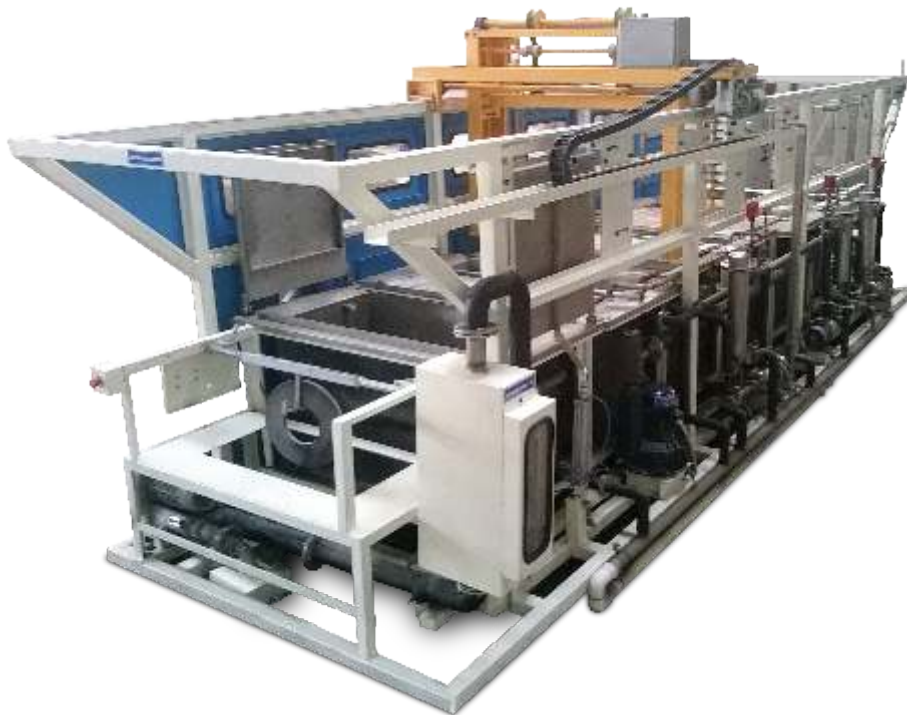


Automatic Phosphating Plant

GALA multi stage phosphating plants are compatible for use with all modern phosphate formulations with multiple process stages to include degreasing /phosphating and multiple rinse cycles.

Ideal for batch processing, these units are operator friendly with easy to use control systems to set independent fluid tank temperatures and cycle times.

The component basket is rolled from the wash machine onto an external fixed or mobile platform for easy loading and unloading the components. Corrosion resistant electric immersion heaters and stainless steel wash pump are fitted as standard.



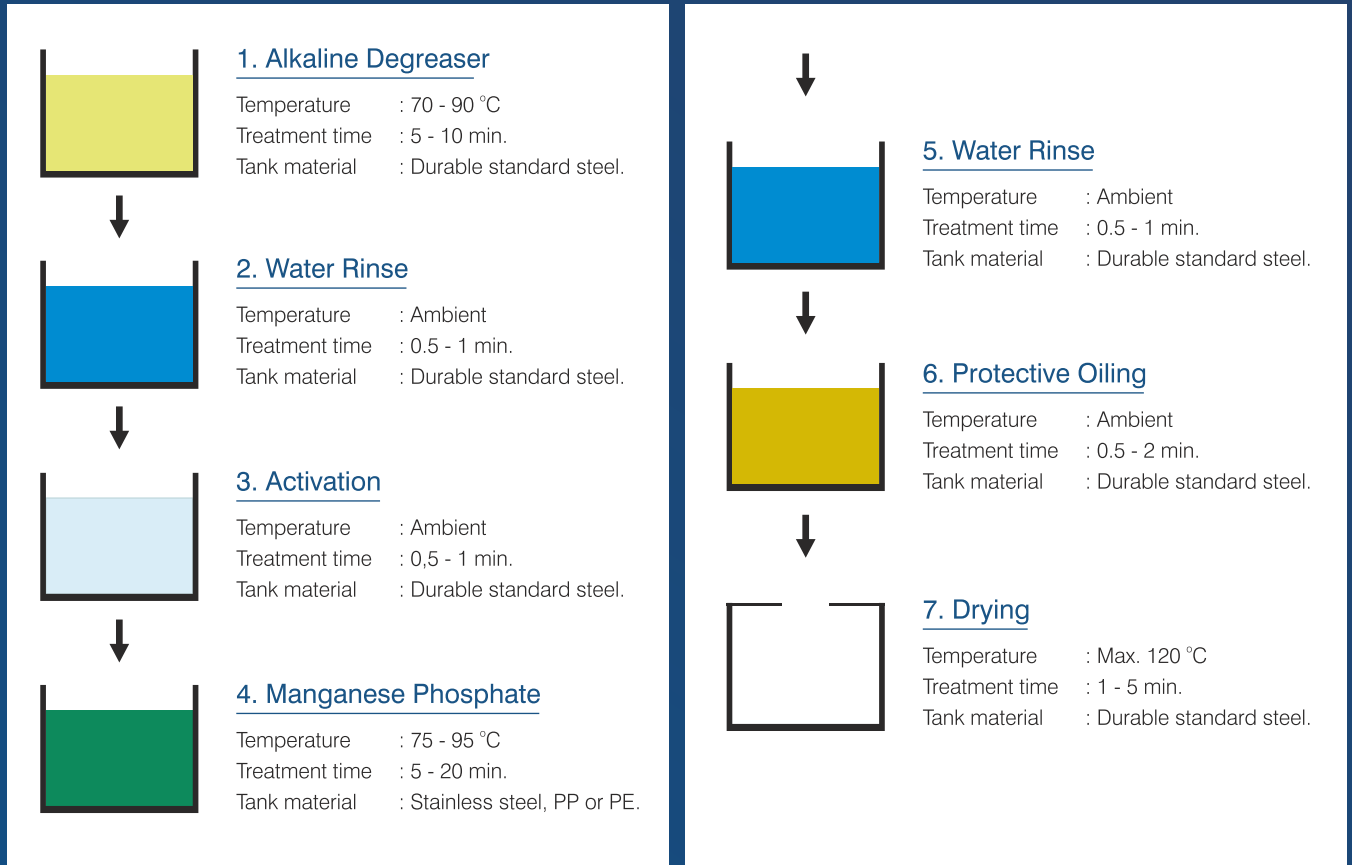
Standard Features

- Sturdy construction with thick thermal Insulation
- Heavy duty stainless steel component Basket – standard range
- Component holding jigs also available
- Fully independent fluid tanks
- Low fluid level protection
- Digital display fluid temperature control
- Integral fluid filtration network
- Electric heating
- Load/unload station
- Auto fresh water refill in rinse tanks
- PLC controlled.

Optional

- Hot wash, rinse, air knife & dry cycles to suit application
- Disc type oil skimmer (Oil separation mechanism)
- Fine inline fluid particle filtration
- Oil/water separator units (Insoluble oils)
- Effluent transfer pump
- Steam extraction fan & steam condenser units
- Auto dosing units
- DI water plant

Phosphating Process



One Stop Solution

Finishing, cleaning and phosphating plants under one roof

Finishing and cleaning compounds

Fully automatic plants with PLC based controls

All India level service support



Surface Engineering Solutions

An ISO 9001 Company

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