



STAR FIELD SYSTEM

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Surface Finishing Solutions

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PRODUCT RANGE

- **Pre-Treatment Systems**
- **Powder Coating Plants**
- **Powder Coating Machine**
- **Powder Coating Drying & Curing Ovens**
- **Liquid Painting Booth**
- **Conveyorised Powder Coating Plant**
- **CED Coating Plants**

ABOUT US

Founded in 2016, **Star Field System** delivers advanced turnkey surface finishing solutions with a focus on high tech paint shops serving clients in India and abroad. From concept to commissioning, we design, engineer, and execute custom paint shop projects using energy-efficient technologies, premium materials, and smart control systems ensuring safety, reliability, and superior performance.

Our projects are delivered on time, backed by robust project management and full technical support. We are committed to delivering innovative, sustainable, and client-focused surface finishing solutions across automotive, industrial, and commercial sectors.



OUR MISSION

At Star Field System, our mission is to deliver world-class, value-added surface finishing solutions by building strong and lasting partnerships with our customers. We are committed to exceeding expectations through innovation, high-quality engineering, and exceptional performance by every member of our team.

OUR VISION

Our vision is to become a global leader in high-tech surface finishing solutions by delivering customized, sustainable, safe, and environmentally friendly painting technologies that enable superior client results.

POWDER COATING PLANT



Powder Coating is a advance environment friendly painting method of surface painting. In it coating is applied electro statically and is then cured under heat to allow it to flow and form a paint film. Powder Coating offer significant performance advantage with reduced cost. It also meets environment regulations. (No VOC emission, no paint sludge disposal).

The Powder Coating Plant Configuration depends upon size and shapes of the articles, coating quality required in conjunction with the color change intervals. Our specialists in surface coating have individual answer and concepts for all these requirements.

Conveyorized Powder Coating Plant are specially designed suitable for powder coating of high volumes, small & large size of components. The Conveyorized application gives better and uniform coating qualities with better process control. These plants can be supplied with automated painting guns are reciprocators etc.



**Conveyor type
Powder Coating Plant**



**Batch type
Powder Coating Plant**

PRE-TREATMENT SYSTEMS

Pretreatment is a surface preparation process carried out before powder coating or painting to ensure better coating quality and durability. It involves chemical cleaning to remove oil, grease, rust, and contaminants from components. Various pretreatment methods such as 7 Tank, 11 Tank, Phosphating, Nano Coating, and Chromatizing are used depending on component material and coating requirements. Pretreatment plants are designed to meet performance standards like corrosion resistance, adhesion strength, and durability.

Pretreatment plants are mainly available in two types:

SPRAY PRE TREATMENT



Spray Pretreatment Plant is also known as Conveyorised pretreatment plant, as components are hung on conveyor and they go through various chemical zones as per chemical process where nozzles spray the chemical on the component surface for surface preparation.

Same conveyor goes inside water drying oven, powder coating booth and powder curing oven, hence operator has to only load components before pretreatment and unload after powder coating.

FEATURES AND BENEFITS

- Spray pretreatment plant is suitable for flat surfaces.
- The spray density & pressure is controlled with the help of pumps & valves.
- Tanks with filters are provided below the zones for better circulation system.
- Material handling is less in spray pretreatment plant.

DIP PRETREATMENT PLANT



Dip Pretreatment Plant is also known as 7 tanks or 11 tanks process plant. In this, components are loaded in basket and the basket is dipped in various chemical tanks as per chemical process. For basket handling from one tank to another tank, hoist (manual) or automated transporter system can be used. After pretreatment, components are transferred to a water drying oven—either directly through baskets or via conveyor system—to remove moisture before powder coating application.

FEATURES AND BENEFITS

- Suitable for small, medium & heavy components processing
- Available in 7 Tank / 11 Tank chemical treatment system
- Effective removal of oil, grease, rust & surface contaminants
- Ensures better coating adhesion and corrosion resistance

LIQUID PAINTING PLANT



Liquid Painting Plant is used to provide high quality finishing. It is applied on metals, plastic and wooden components. High quality painting is a multilayered process that allows wet-on-wet or bake-on-bake applications.

A typical painting line may include primer coat followed by top coat and can be further followed by clear coat.



Star Field System offering many types of Liquid Painting Booths

- Side Draught Painting Booth
- Down Draught Painting Booth
- Dry Type Painting Booth
- Car Painting Booth

BENEFITS

- Most efficient way of containing over sprayed paint
- Restricts paint overspray to a specified area
- Provides optimum air velocity for effective spray efficiency
- Ensures maximum operator comfort and reduced health hazards
- Minimizes risk of fire due to solvent vapors and overspray deposits



POWDER COATING GUN



The all-new Multistatic 700 powder system has advanced features to make the whole powder coating process quick, easy and efficient.

FEATURES

- Features a 100 KV built-in electrostatic high voltage generator for enhanced transfer efficiency and reduced wastage.
- Powder pathway constructed from wear-resistant material, specially rounded to prevent impact fusion and provide smooth uninterrupted flow.
- Coating speed increased by 20%.
- Easily maneuverable, well-balanced and efficient powder coating gun made from high impact unbreakable plastic body.
- Gun has a patented replaceable power cartridge (Mitsuba US Patent No. 5678770).
- In case of malfunction, cartridge can be easily replaced.



WATER DRY OVEN

Water drying oven is used for drying of article after pretreatment process. After pretreatment, some moisture remains on the object which must be removed because before powder coating, components should be clean and free from moisture.

Following are the types of ovens:

A. INLINE TYPE WATER DRYING OVEN

This type of oven is in line with the dip pretreatment process and is also known as tank type oven. This oven has sliding doors operated pneumatically / hydraulically. Heater box is provided at the side of the oven. Transporter / hoist is used for loading and unloading baskets from the top side.

B. BATCH TYPE WATER DRYING OVEN

In this oven, articles are loaded on a trolley and pushed inside the oven. After the required heating time, the trolley is taken outside the oven. Manual push-pull track arrangement and doors are provided for loading and unloading components.

C. CONVEYORISED CONVENTIONAL WATER DRYING OVEN

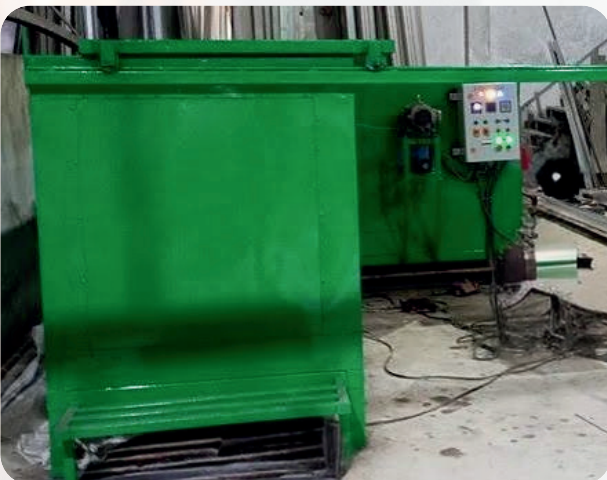
In this oven, pretreatment articles are hung on the conveyor which carries them through the oven for drying. After drying, conveyor brings the articles outside. Entry and exit are provided perpendicular to the ground.

D. CONVEYORISED CAMEL BACK WATER DRYING OVEN

Working principle is similar to conveyorised conventional oven, but entry and exit are parallel to the ground which helps in reduction of heat loss.

This oven works on two principles:

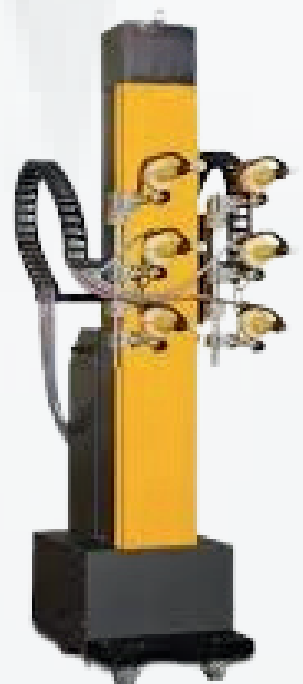
- Natural Airflow
- Natural Draft



RECIPROCATOR AND AUTO GUN

FEATURES

- Sprayright Plus – **100 programs** can be easily preset for instant recall.
- User-friendly **touch control panel** for KV, μA , powder and dosing air control.
- **4 Quick Mode Settings:**
 - Coat
 - Recoat
 - Corner
 - Soft Mode
- Clean button for **auto cleaning** of powder pump, hose and gun.
- **Modular concept** – easy customization.
- Corona and Tribo guns operate on the same control system.
- Interlocking available between individual guns and external systems
- (Part sensing system, Conveyor, Oven etc.)
- Meets **IP54 standards**.



WOOD FINISH SUBLIMATION PLANT



The Wood Sublimation Machine by Wood Sublimation Machine is a high-performance heat transfer solution designed specifically for printing vibrant, long-lasting designs on wooden surfaces. This advanced sublimation system allows businesses, manufacturers, and creative professionals to produce customized wooden products with exceptional color clarity and durability. Whether you are creating personalized gifts, promotional products, decorative panels, nameplates, photo frames, or corporate branding materials, this machine delivers professional-grade results every time.

This machine supports a variety of wooden materials, including MDF, coated wood panels, plywood, and pre-treated sublimation boards. With its energy-efficient heating system, it reduces operational costs while maintaining superior print quality. The compact yet robust design makes it suitable for workshops, printing businesses, and industrial production units.

The Wood Sublimation Machine is engineered for speed, accuracy, and durability. It enhances productivity while maintaining excellent image sharpness and vibrant color reproduction. If you are looking to expand your customization business or improve production quality, this machine offers the perfect balance of performance, reliability, and affordability.

FEATURES

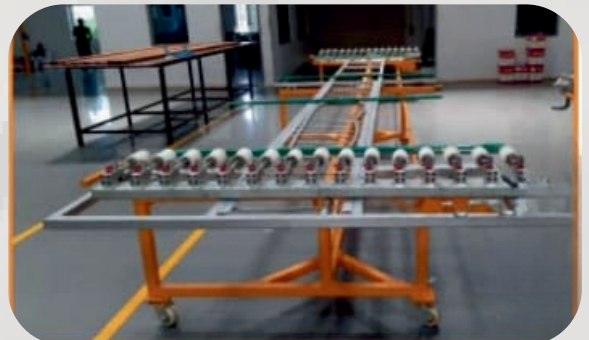
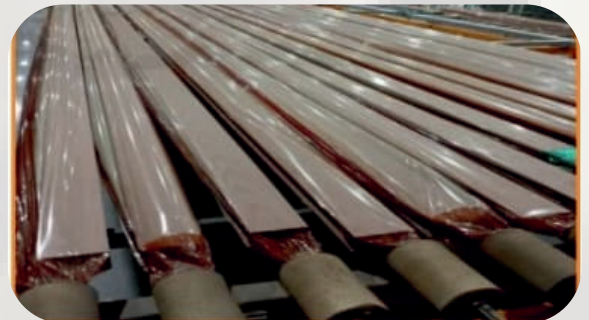
- Transfer print batch by batch
- Double working trolley
- Continuous processing alternately without stop
- **Less labour cost** – Only 3–5 workers required
- Easy operation
- **High Production** – Daily output for aluminium profiles up to 1–2 tons
- **Business Benefit** – High value addition to finished products Wide range and possibilities of application



Used in many industrial sectors, the sublimation of aluminum is a technology widely used in the field of aluminium profiles. Wood-effect aluminum is in fact ideal for profiles for outdoor use due to its excellent resistance to UV rays and atmospheric agents.

FEATURES:

- Transfer print batch by batch
- Double working trolley
- Continuous processing alternately without stop
- Less labour cost – Only 3–5 workers needed
- Easy operation
- High Production – Daily output for aluminium profile is up to 1–2 tons
- Business Benefit – Big added value to your product
- Wide range and possibilities of application



PROCESS

- Aluminium profile is coated with polyurethane powder.
- Wrapped with wood grain film.
- Placed on a vacuum trolley and vacuum is applied.
- Heated in baking oven at 180–200°C for 8–10 minutes.
- Compressed air is used to separate the film.
- Film is manually peeled off.



OUR CLIENTS



CERTIFICATION

At **Star Field System**, we provide comprehensive solutions in surface finishing equipment, covering every stage from metal pretreatment to final finishing. Our tailor-made solutions are designed to meet diverse industry needs with precision and efficiency.

We bring the latest innovations in surface coating technology, with a strong focus on delivering complete end-to-end solutions under one roof. Our offerings include:

- Advanced paint circulation systems
- Manual, automatic, and robotic applicators
- State-of-the-art heating systems
- Water treatment & effluent treatment plants
- Fire protection systems
- Automation in material handling

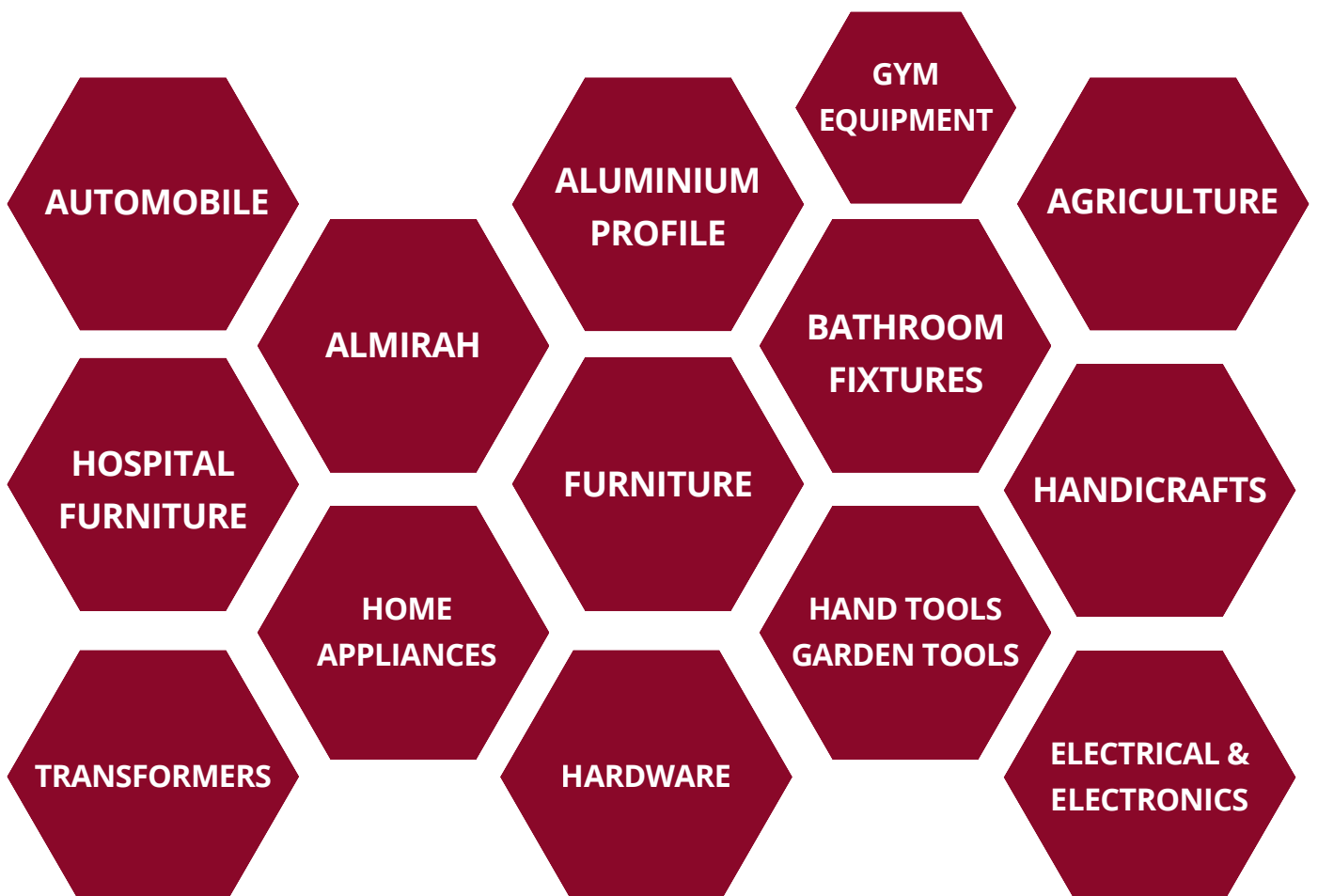


AREA OF APPLICATION

Automobile Components
Control panels & switchgears
Sheet metal fabricators components
Aluminum Section & Die-casted Components
Bicycle and its parts, Ceiling fans
Electrical Hardware Goods
Agriculture Equipments Machineries
And many more...



INDUSTRIES WE CATER TO



OUR LOCATION



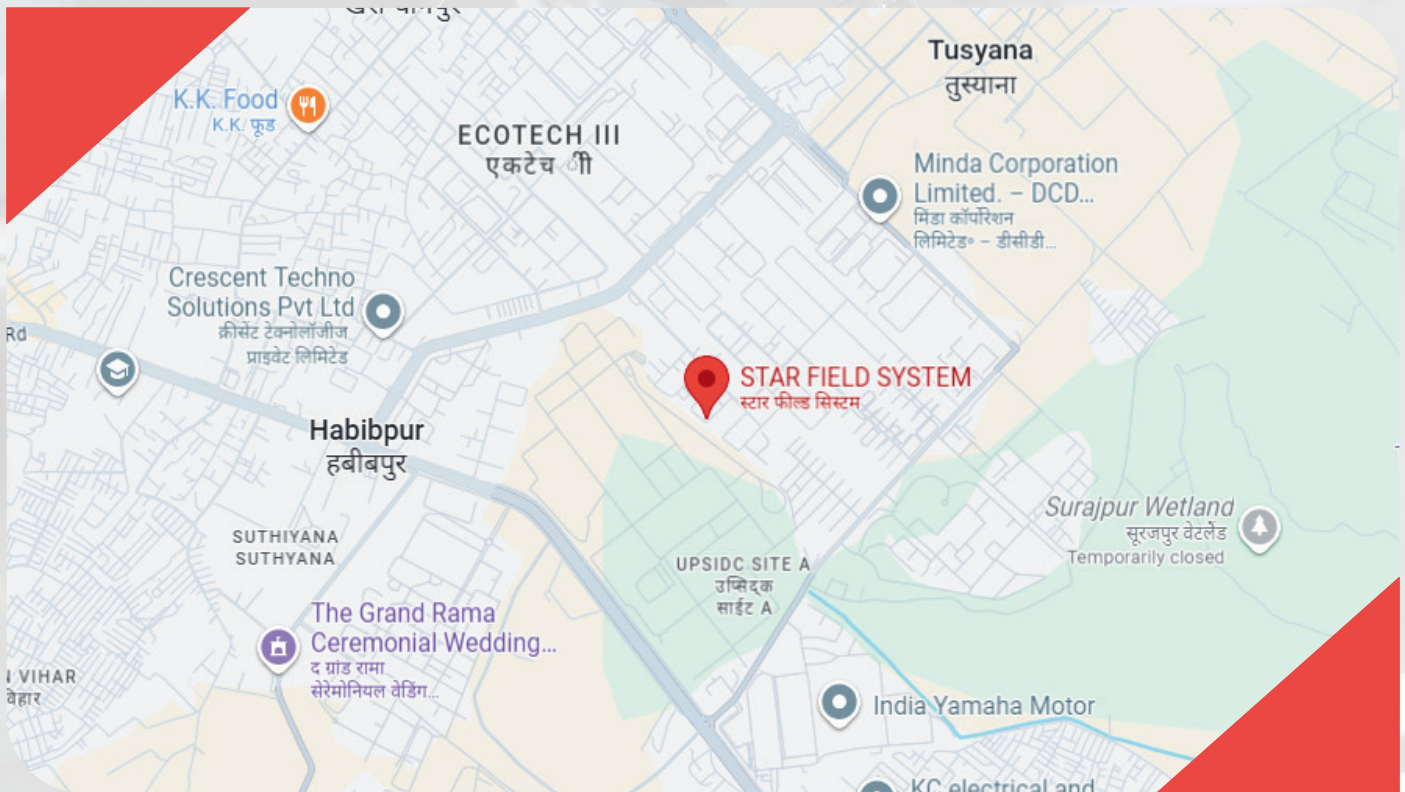
MAKE IN INDIA





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