



Ji'nan ShengTai Painting Equipment Co.,Ltd.  
Address:East of the intersection of Dongwaihuan Road and Wenhua Road  
Diaozhen Street, Zhangqiu District, Jinan City,Shandong Province  
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# Powder Coating Line for Racks

## 1. Basic Information

No.	Item	Parameter
1	Maximum Workpiece Dimensions	1200mm × 750mm × 2200mm (L × W × H)
2	Maximum Workpiece Weight	300 kg
3	Maximum Throughput	12 hangers / hour
4	Workpiece Material	Steel, Aluminum Alloy
5	Production Area Dimensions	See attached drawing
6	Floor Condition	Industrial cement flooring; underground excavation permitted
7	Power Supply	220V / 380V / 60Hz
8	Heat Source	Natural Gas
9	Compressed Air	To be provided by customer as required

## 2. Process Requirements

No.	Item	Parameter
1	Site Dimensions	30,000 (L) × 8,000 (W) mm
2	Pre-treatment Method	Degreasing + Water Rinse + Fresh Water Rinse
3	Coating Material	Thermosetting Powder Coat
4	Coating Method	Electrostatic Spray (Automatic + Manual Touch-Up)
5	Powder Recovery Method	Automatic Closed-Loop Circulation
6	Powder Curing Method	Gas Hot-Air Circulation
7	Conveyor Type	Power & Free Overhead Conveyor
8	Loading / Unloading	Manual + Mechanical Assist (arranged by customer)

## 3. Process Flow

*Load Parts → Degreasing → Water Rinse → Fresh Water Rinse → Moisture Drying → Electrostatic Powder Coating → Powder Curing → Natural Cooling → Unload Parts*

The production line is designed based on the above basic requirements and site conditions (see layout drawing).

## 4. Production Line Equipment List



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No.	Equipment Name	Qty
1	Power & Free Overhead Conveyor	1 set
2	Pre-treatment Equipment	1 set
3	Gas Hot-Air Circulation Moisture Drying Oven	1 set
4	Quick Color-Change Powder Spray Booth & Recovery System	1 set
5	Electrostatic Powder Spray Guns	8 guns
6	Gas Hot-Air Circulation Powder Curing Oven	1 set
7	Electrical Control System	1 set



SHENGTAI