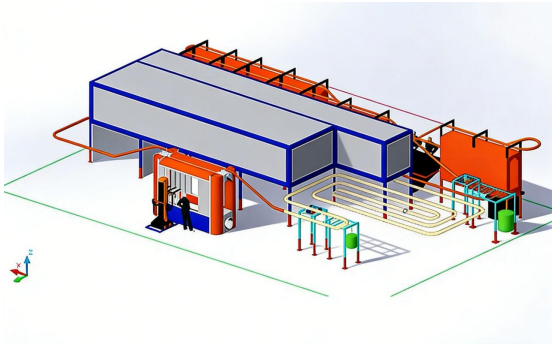
Aluminum Profile Powder Coating Line
ST-APCL-L6320

1. Diverse and Stable Colors: Available in a wide range of customized colors with low color deviation, vibrant hues, and high gloss to meet various design needs.
2. High-Quality Coating Finish: The coating achieves uniform thickness, with one-time film formation reaching 50–80 µm or even 100–300 µm.
3. Superior Environmental Performance: Waste materials can be recycled and reused, lowering resource waste and production costs.
4. High Efficiency and Energy Savings: Utilizing one-time film-forming technology, production efficiency increases by 30%–40%.

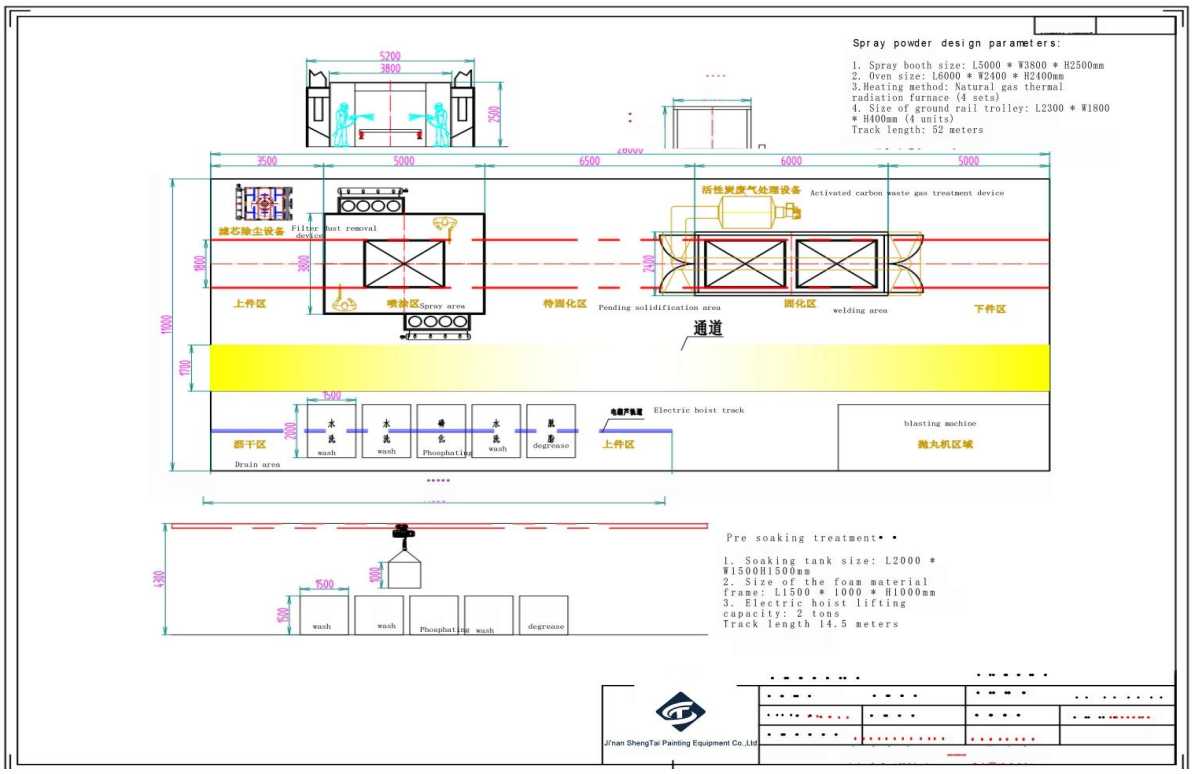
Automated Powder Coating Systems:
For High Volume and Superior Quality When your production requires coating large quantities of components, an automated powder coating system could be the ideal solution for enhancing your operational efficiency.
Rely on ShengTai Coating Systems to advance your outcomes through precise engineering and expert support.



Process Flow:

Loading → Moisture Drying → Automatic Spraying → Manual Touch-up → Powder Curing → Workpiece Cooling → Unloading

Automatic Coating Equipment for Diverse Materials:
Suitable for metal, plastic, glass, crafts, wood, and more. Receive customized configurations with our Automatic Powder Coating Line, designed to meet your specific application requirements. We are dedicated to delivering professional automated powder coating machinery solutions tailored to every customer.
Take the following draft for example:



Aluminum Profile Powder Coating Line ST-6320	
Key attributes	
Automatic Powder Spray Booth	6.2m*1.9m*3.5m
Large Cyclone Recovery System	22kW/12-core indoor discharge
Powder Curing Tunnel	55m*1.0m*3.5m
Workpiece Preheating Tunnel	25m*1.0m*3.5m
Heating Device	500,000/340,000 kcal Gas Heating Unit
Hot Air Circulation	Sound-insulated heat preservation fan 11/5.5kw
Conveying Device	Conveyor Chain QXG250
Spray System	Automatic Spray Gun
Automatic Reciprocating Lifter	Stroke 2.5 meters
Control System	PLC Touch Screen
Air Curtain Heat Insulation Device	3kW
Curing Fume Collection and Exhaust System	

(1) Collection Hood	1000mm*1000mm
(2) Duct, Elbow, and Fittings	ϕ300mm
Induced Draft Fan	0.75kW Axial Flow
Description	
Workpiece Name	Aluminum Profile
Overall Workpiece Dimensions	L6.0m*W0.3m*H2.0m
Process Chain Speed	0-4m (Frequency Adjustable)
Hanging Method:	Multiple Points, Multiple Pieces
Process Flow: Loading → Moisture Drying → Automatic Spraying → Manual Touch-up → Powder Curing →Workpiece Cooling → Unloading	
Total equipment power	approx. 60kW (excluding air compressor power)