Customized Automatic Powder Coating Production Line

ST-APCL-03C

1. Pre-heating Oven: Pre-heating oven aims to preheat the workpiece to required temperature. It is usually max 450°C.
2. Core Product Concept: Unified systems combining high-quality, coordinated components.
3. Customization & Configuration: Can be optimally integrated into existing production lines or serve as new installations.
4. Implementation & Expertise: Efficiently implemented based on effective pre-planning by specialists.

Complete Support for Automated Metal Coating Systems

Managing extensive, multi-stage powder coating installations requires dedicated project oversight. ShengTai specializes in seamlessly combining varied system components, guaranteeing timely delivery and precise setup. Backed by more than 15 years of expertise and a global history of successful fully automated coating line deployments, we deliver adaptable and secure processes from start to finish.

ShengTai's complete powder coating systems provide unified, automated solutions tailored to specific production needs. Systems are designed and expanded to suit the respective application.The configurations are optimized for seamless integration, modernization, or entirely new installations.

Automatic Powder Coating Line Specifications		
Equipment/Component	Item	Specifications
Fast Color Change Powder Coating Cyclone Booth	Equipment Name	Fast Color Change Powder Coating Cyclone Booth
	Material Options	Stainless Steel (SS) or Polypropylene (PP)
	Model	ST-APCL-03C
	Booth Type	Automatic Type
	Operator Dimensions (W × D × H)	800 × 6000 × 2000 mm
	Weight	4000 kg
	Power Supply	Electric
	Nominal Power	15 kW
	Voltage	380V/220V (Customizable to local standards)
	Frequency	50-60 Hz
	Filter Type	Polyester
	Filter Count	32 pcs (325 × 900 mm)
	Filter Hanging Type	Rotary Wing Type (Easy to clean)
	Filter Cleaning System	Pneumatic
	Booth Material	Wall: PVC; Floor: PVC & Stainless Steel
	Cyclone Material	Stainless Steel
Reciprocating	Power Supply	AC 220V/110V 50-60 Hz

Machinary	Motor Power	0.75 kW
	Speed	0–0.8 m/s (0–50 m/min)
	Acceleration	1 m/s^2
	Max. Loading Capacity	25 kg
	Controller	Digital
	Motor Frequency	Adjustable
	Stroke	2 m
	Qty of Spray Guns Loading	2–12 pcs
Automatic Powder Feed Center	Power Supply	AC 220V/110V 50-60 Hz (As required)
	Overall Dimensions	1350 × 1940 × 900 mm
	Power Hopper Size	550 × 550 × 550 mm
	Sieve Frame Size	ϕ400 mm
	Standard Mesh Size	80 mesh (Customizable)
	Air-in Pressure	6–8 bar
	Recommended Air Compressor HP	20 kW (30 HP)
	Air Consumption	Approx. 300 m^3/h (Standard condition)
	Ambient Temperature	5–40 ℃
Powder Coating Oven	Workspace Dimensions (W × H × D)	1800 × 1800 × 5000 mm
	Overall Dimensions (W × H × D)	2100 × 2200 × 5200 mm
	Heating Energy	LPG / Gas / Diesel
	Voltage/Frequency	380V/220V (50-60 Hz)
	Warm-up Time (to 180℃)	15–30 minutes
	Temperature Stability	< ±3.0–6℃
	Max. Temperature	250℃
	Transport System	Two trolleys
	Burner	Italy Riello, 100,000 cal
	Circulation / Air Flow	Vertical, adjustable via side wall holes
	Ventilation Performance	8288–16576 m^3/h
	Motor Power	7.5 kW
Warranty	12 months	