SHENGTAI Ji'nan Painting Equipment Co.,Ltd.

Manual Batch-types Coating Systems ST-MPCL6032

I	Semi-Automated Powder Painting Equipment			
No.	Product specifications		Quantity	Units
1	Conveyor Line	Guangda Brand	1	Set
1)	Conveyor Chain	QXG-150 , single-point load capacity 30 kg	around 70	M
2)	Conveyor Track	80*80*&3.75mm	65	M
3)	Support Column	80*80&1.8 square tube	1	Type
4)	Horizontal Track Elbow	R=1000*180°manganese steel	2	Type
5)	Power Unit	Crawler drive, 2.2 kW drive motor, variable-frequency speed control	1	Set
6)	Tensioning Device		1	Set
7)	Automatic Oiler	Six-point spray type	1	Unit
9)	Tensioning Sleeve	Manganese steel, L = 1 M	2	Set
10)	Tensioning Bracket	80*80&1.8 square tube	1	Set
11)	Power Bracket	80*80&1.8 square tube	1	Set
12)	Up/Down Slope		2	Set
13)	Primary Hanger	Vertical scissor hanger, spacing 300mm	220	Set
14)	Secondary Hanger	Provided by customer		
II	Automatic Powder Spray Booth	L6200*W1900*H3000	1	Set
1)	Shell Material	Galvanized sheet with powder coating-	1	Type
2)	Base Frame Material	Base Frame Material 50*50*2.0mm	1	Set
3)	Base Plate Material	Base Plate Material-t2.0mm	1	Batch
4)	Open Spray Stations		10	Unit
5)	Touch-up&Maintenance Stations		2	Unit
6)	Pneumatic Pipeline System		1	Set
7)	Automatic Booth Cleaning System	Air knife + pulse auto-cleaning	1	Set
8)	Lighting	Tri-proof lamps, AC220V—40W	6	Pcs
9)	Central Powder Supply Center	Including powder hopper, automatic sieving unit, air supply system, etc.	1	Set
III	Large Cyclone Recovery System	Indoor Discharge	1	Set
1)	Cyclone Body	1260*1260*4500; hot-rolled steel with powder coating, material SS41&2.75mm	1	Set

No.	Product specifications		Quantity	Units
2)	Cyclone Cone	Hot-rolled steel with powder coating, material SS41&2.75mm	1	Set
3)	Cyclone Support Frame	80*80*2.75mm square tube welded structure	1	Set
4)	Cyclone Central Powder Hopper	Hot-rolled steel with powder coating-t1.5mm	1	Set
5)	Powder Recovery Pumps	Aluminum	2	Set
6)	Powder Pump Recovery Hose		10	M
7)	Hopper Fluidization Device		1	Set
8)	Fluidization Control System		1	Set
9)	Secondary Recovery System		1	Set
10)	Cyclone Ducting	Φ500mm,flange-connected	1	Set
11)	Imported Polyester Filter Cartridges	℄325*1000mm(polyester + membrane coating)	12	Set
12)	High-Efficiency Exhaust Fan	22KW,air volume 20,000 m^3 /h (VFD)	1	Unit
13)	Diaphragm Solenoid Valves		12	Set
14)	Digital Pulse Controller	20 position	1	Set
15)	Filter Cleaning Device	Automatic reverse blowing	12	Set
16)	Sound-Absorbing Device		1	Set
17)	Acoustic Cotton	t=50mm	1	Set
18)	Quick Maintenance Doors		2	Set
19)	Secondary Powder Hopper		1	Set
20)	Air Tank Control Assembly	120L	1	Set
21)	Air Tank		1	Set
22)	Secondary Cyclone Duct (Φ500 mm)	Φ500mm，Flange-connected	1	Set
23)	Auxiliary Materials	square steel tube 50×50,SS41-t1.5mm	1	Batch
IV	**Powder Curing Oven**	**L6900*W2500*H2600**	**1**	**Set**
1)	Oven Shell Material	rock wool panel(δ100mm)，density 100 kg	1	Set
2)	Outer Rock Wool Panel	0.5 mm color-coated panel	1	Set
3)	Inner Rock Wool Panel	0.5 mm galvanized sheet	1	Set
4)	Oven Base Plate	δ100mm rock wool + structural steel base	1	Batch
5)	Oven Structure	Fixed structure	1	Unit
6)	Oven Base Frame	Galvanized square tube 100*100*&2.5mm	1	Set
7)	Auxiliary Materials	50*50 mm square steel tube, SS41-t1.5 mm	1	Set
8)	Outer Corner Cover	Galvanized sheet with spray coating,SS41-1.2 mm	1	Set
9)	Inner Corner Cover	Galvanized sheet,SS41-1.0 mm	1	Set

No.	Product specifications		Quantity	Units
V	Gas Heating System	20wkcal	1	Set
1)	Outer Chamber Material	Cold-rolled sheet with powder coating, SS41-1.5	1	Batch
2)	Inner Chamber Material	Galvanized sheet SS41-2.0	1	Batch
3)	Insulation Layer	150mm,100K rock wool	1	Set
4)	Base Frame Material	Iron channel steel No.10	1	Batch
5)	Heat Exchanger Inner Tank	201 stainless steel, SUS304-t2.5 mm	1	Batch
6)	Auxiliary Materials	square steel tube 50*50,SS41-t1.8mm	1	Batch
7)	Gas Burner	FS20（Riello）	1	Unit
8)	Temperature Range	Ambient to 220°C	2	Pcs
9)	Temperature Controller	RKC-700 temperature controller		
10)	Temperature Sensor	Imported CA thermocouple, ±5%	2	Pcs
11)	Hot Air Circulation	Silent insulated fan 5.5KW	1	Unit
12)	Hot Air Duct	1.0 mm galvanized sheet, insulated	1	Batch
13)	Air Inlet Duct	Galvanized sheet t=1.8mm	1	Set
14)	Return Air Duct	Galvanized sheet t=1.0mm	1	Set
15)	Duct Insulation	0.8 galvanized sheet	1	Set
16)	Air Balancing Valve		1	Set
17)	Flame-out Alarm Protection	With flame-failure protection to prevent overheating	1	Set
18)	Over-Temperature Protection	With over-temperature protection to prevent controller failure	1	Unit
VI	Reciprocators		2	Unit
1)	Stroke	1.5 meters	1	Set
2)	Control Interface	HMI operation panel	1	Set
3)	Reciprocator Motor	1.5 kW geared motor (VFD)	1	Set
VII	Automatic Powder Coating System		1	Set
1)	Automatic Powder Coating System		6	Gun
2)	Electrostatic Generators		6	Set
3)	Stainless Steel Powder Hopper		1	Unit
4)	Powder Sieving Machine		1	Set
5)	Automatic Gun Cabinet		1	Unit
6)	High-Precision Powder Delivery Tubes		80	M
7)	Powder Output Pumps		8	Set
8)	Powder Air Hoses		80	M
VIII	Manual Powder Guns		2	Set
1)	Manual Electrostatic Spray Guns		2	Gun
2)	Manual Electrostatic Generators		2	Set
3)	Stainless Steel Powder Buckets		2	Pcs
4)	Mobile Stands		2	Set
IX	Electrical Control System		1	Set

No.	Product specifications		Quantity	Units
2)	Control System	PLC touch-screen control	2	Set
3)	Electrical Components	CHINT	1	Batch
4)	Power Cables	4—16 mm^2 power cables	1	Batch
5)	Control Cables	1.0—1.5 mm^2 wires	1	Batch
6)	Overload Protection	Overload protection for each motor	1	Unit
7)	Operation Display	Conveyor operation status display	1	Unit
X	Other Costs	Installation,commissioning,travel & testing	1	Lot

Spacious & Flexible Application: Features a walk-in spray booth with ample interior space, designed for coating large and complex-shaped parts.
Precise Manual Control: Equipped with a professional manual coating gun, enabling meticulous operation for a superior finish.
Compact Footprint: Boasts a compact design, making it suitable for factories with limited space and ideal for batch production.
Cost-Effective Flexibility: Compared to automatic lines, it offers greater flexibility for parts of any shape or size at a significantly lower budget.
A versatile coating approach designed for accurate, operator-controlled application. It is well suited for low-volume production, tailored surface finishes, and uniform, reliable protection.
If you are planning to build a customized powder coating line, please provide the following information so we can design the most suitable solution for you:
1. The maximum size and total weight of your largest workpiece
2. The required daily production capacity based on the largest workpiece (per 8-hour shift)
3. Your preferred heating source: gas, electricity, or diesel
4. The available installation space (length × width × height)
5. Details of your local industrial power supply configuration