Ji'nan ShengTai Painting Equipment Co.,Ltd.
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Liquid Coating Line Configuration ST-ALPL-1821

No	Name	Specification	Quantity
I	Curing Oven	Outer Dimensions L35000*W2000*H2700	1 set
1	Panel	10 cm thick rock wool panel, one side galvanized, one side white, sheet thickness 0.5 mm	
2	Support Frame	100×100 square tube, 3.0 mm thick 100×100 square tube, 2.0 mm thick 100×50 square tube, 2.0 mm thick	
3	Trough, Corner Caps, Internal Corners	1.2 mm galvanized sheet	
4	Base Plate	200*200 mm, 5 mm thick carbon steel plate	
II	Powder Curing Oven Heating System	Heat conversion furnace 5000*1200*1300 mm, furnace liner stainless steel 2 mm thick, filled with aluminum silicate wrapped rock wool	1 set
1	Burner	RS50 | Riello (Domestic) RS50	
2	Fan	7.5 kW built-in high-temperature fan	
3	Air Inlet & Return Ducts	1.5 mm galvanized sheet	
4	Control Cabinet (Non-explosion-proof)	Delixi Electric	

III	Overhead Conveyor Chain	Type 250, single-point load capacity 50 kg	1 set
1	Chain	Type 250 chain | 150 m	150m
2	Straight Track	I-beam No. 12	130m
3	Drive Unit	4 KW motor with 2-35 reducer	1 unit
4	Tensioning Device	R3000×180°, includes 2 buckets	1 set
5	Horizontal Curved Track	R3000×180°	2 pieces
6	Horizontal Curved Track	R3000×90°	2 pieces
7	Horizontal Curved Track	R1000×30°	2 pieces
5	Incline/Decline Sections	R1500×30°, manganese steel	4 groups
6	Scissor Hangers	With pins and bolts, pitch 500 mm	350 sets
7	Automatic Lubricator		1 unit
8	Control Cabinet (Non-explosion-proof)	4 KW frequency conversion control cabinet	1 unit
IV	Automatic Spray Booth	L6000×W1500×H3500 mm (side panel height 3000 mm)	1 set
1	Booth Material	Galvanized sheet δ1.5 mm, welded and powder coated	1 unit
2	Lighting Fixture	50 W (explosion-proof type)	2 sets
3	Paint Blow-off Device	Mushroom head blow-off	2 sets
4	Booth Recovery Structure	Bottom recovery	1 set

5	Booth Bottom	Galvanized sheet δ1.5 mm	1 set
6	Operating Platform	Platforms at both ends of the booth	2 sets
7	Automatic Spray Gun Ports (reserved)	4 groups on one side	2 groups
V	Paint Spray Cabinet	L2500mm×W1500×H2500mm	1 set
1	Exhaust Fan	5.5kW	2 units
2	Water Pump	Pipeline pump	2 units
3	Ducting	Round pipe, 1.0 mm thick	1 set
4	Electrical Control	Frequency conversion	1 set
VI	Paint Mist Recovery System	L3000×W1500×2800mm	1 set
1	Cyclone Scrubber Tower	Stainless steel, 1.5 mm thick	1 set
2	Activated Carbon Adsorption Box	2200×1500×1500 mm	2 units
3	Dry Filter	Non–woven filter bags	16 sets
4	Control Cabinet (Non–explosion–proof)	30 kW frequency conversion control cabinet	1 set
5	30 kW Fan	Exhaust fan	1 set
VII	Connecting Ductwork		1 group
1	Spray Booth to Paint Mist Recovery (Φ500 mm)	Elbow: 1, Tee: 1, Square–to–round transition: 1, Straight pipe: 6000 mm (1.0 mm cold rolled sheet)	1 group

2	Spray Booth to Paint Mist Recovery (Φ600 mm) Φ600mm	Elbow: 1, Square–to–round transitions: 2, Straight pipe: 2500 mm (1.2 mm cold rolled sheet)	1 set
VIII	Spraying Equipment		
1	Reciprocator	Stroke 2 m, with 4 automatic spray guns	2 units
2	Manual Spray Gun	For manual touch–up	2 sets
VIV	Explosion–proof Equipment	with certificates	1 set
1	Flameless Venting Device	410×410 mm (with certificate)	2 sets
2	Single–direction Explosion Isolation Valve	Diameter 600 mm (with certificate)	1 set

The painting production line effectively solves common problems associated with manual spraying operations, such as high labor intensity, low efficiency, large manpower requirements, unstable coating quality, poor uniformity, and excessive paint waste. Based on preset parameters, this automated painting line can perform large–area spraying automatically, significantly reducing labor requirements while achieving high spraying efficiency. The coating quality is stable with excellent uniformity.

Please provide detailed information so that we can provide you with a more accurate solution:

1. What are the Maxminum and Minimum dimensions of your workpieces (L × W × H)?
2. What is the maximum weight of each workpiece? If available, please also provide product photos.
3. How many workpieces do you plan to coat per day (based on 8 or 16 working hours) or per month?
4. Which heating source do you prefer, such as electric power, diesel, fuel oil, or natural gas?

5. What are the dimensions of your workshop (L × W × H)? If possible, could you share a layout or drawing of the facility?
6. Prior to coating, do you require spray pre–treatment to prepare and clean the product surface?
7. What voltage and frequency standards are used in your country?

Please also share your WhatsApp or another instant messaging contact so we can communicate more efficiently.

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