Ji'nan ShengTai Painting Equipment Co.,Ltd.
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Water Cabinet Spray Booth wih Conveying System Specifications			
Component	**Model / Type**	**Key Function / Description**	**Material / Construction Features**
Conveying System	XT-160 Heavy-Duty Carrier	The main function is to support the chain, bear the weight of objects and hangers. On vertical bending sections, it also withstands the resultant force of chain tension, ensuring the chain travels correctly along the track.	
	Material	High-strength, good-toughness 45# steel.	
	Features	Equipped with roller bearings. A grease nipple is installed at the end for enhanced lubrication and reduced running resistance.	
Water Cabinet Spray Booth	Enclosed Top-Exhaust Type	The booth's internal clear dimensions accommodate spraying and passage of the largest workpiece, considering turning radius to avoid interference. It features enclosed top exhaust and shaped access doors on both sides to allow workpiece passage while isolating the internal environment.	
	air velocity	0.3~0.7 m/s	Airflow volume is appropriately sized to prevent paint mist overspill and over-extraction, improving paint utilization.
	Explosion-proof lighting	installed at the top of the water-wall cabinet	Uses a wet paint mist capture system. Atomized water fully mixes with and scrubs paint-laden air in primary treatment. Air then enters the exhaust duct, drawn by a fan through a demister and secondary activated carbon filter.
	residual mist	over 90% captured	
	particle sizes/condensate-generated particle size	1.0—150 μm/0.10—30 μm	Demister (Wave-Plate Mist Eliminator): In industrial processes and exhaust treatment, gas-liquid separation is crucial. It efficiently separates entrained mist/dust. It offers high separation efficiency, low resistance, resistance to clogging, compact installation, economical operation, safety, reliability, and ease of operation.

Spray Painting Line Process Flow Table		
Step	Process	Details
1	Upper	Workpiece loading onto the conveyor system.

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?
2.What is the maximum weight of each workpiece? If available, please also provide

2	Electrostatic Dust Removal	Removes dust and particles from the workpiece surface using static electricity to
3	Primer	Application of the primer coat.
4	Flash–off	A short resting period allowing solvents in the primer to partially evaporate and the coating
5	Top Coat	Application of the final color/finish coat.
6	Flash–off	A second resting period for the top coat to
7	Drying/Curing	Drying and curing in an oven. Parameters: 30
8	Cooling	Workpiece cooling down to a safe handling temperature.
9	Unloading	Finished workpiece is unloaded from the line.

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

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