Ji'nan ShengTai Painting Equipment Co.,Ltd.
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E-coating line Dip Tank Pretreatment ST-EC-DTP

Advantages of Dip Tank Pre-treatment

1. Thorough treatment

Immersion pre-treatment allows the workpiece to be fully exposed to the treatment solution, ensuring that all internal and external surfaces—including cavities, gaps, and corners—are completely processed. Oil, rust, and impurities are effectively removed, making it especially suitable for complex structures and eliminating blind spots. This creates an ideal foundation for high-quality Electrophoresis coating.

2. Excellent uniformity

Because the workpiece is evenly soaked in the solution, contact conditions remain consistent across all surfaces. This guarantees uniform pre-treatment results, providing a stable and even substrate for subsequent coating stages and significantly improving

coating uniformity and adhesion in the E coating line.

3. Reduced secondary contamination

Compared with spray pre–treatment, immersion pre–treatment minimizes the risk of contaminants reattaching to the surface due to spray pressure or airflow. Pollutants are fully dissolved or chemically removed, reducing secondary contamination and enhancing final coating quality.

4. Strong adaptability

Process parameters such as solution composition, concentration, temperature, and treatment time can be flexibly adjusted to suit different materials, contamination types, and production requirements. Immersion pre–treatment is suitable for various metals, including steel and aluminum alloys, meeting diverse Electrophoresis coating process demands.

ShengTai Painting Equipment specializes in intelligent automation for modern E coating line projects. We are committed to providing eco–friendly, efficient, and reliable E coating line and Electrophoresis coating solutions for global manufacturers.

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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