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上海惠铎环境能源科技股份有限公司

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■ ABOUT US

WEDONE Environment & Energy Technology (Shanghai) Co., Ltd. is a professional thermal & environment engineering company that believes in service creates value and is committed to provide eco-friendly, safe, energy-saving, and efficient IT-based automatic hot-dip galvanizing production lines, hot-dip galvanizing furnaces, and related galvanizing production equipment for the customers worldwide.

WEDONE Technology operates in Shanghai Pudong New Area, providing equipment and technical services for world-renowned multinational companies.

WEDONE Technology has a manufacturing base that covers nearly 10,000 square meters in the Mashan industry park, Wuxi City. The base is engaged in the manufacturing and assembly of industrial combustion and control systems, hot-dip galvanizing furnaces, equipment and systems for automatic hot-dip galvanizing lines. The company's quality management system is certified to ISO 9001 and 2008.

SERVICE CREATES VALUE

Our Advantage

Best Application Technology

Tailor made to meet or exceed customer expectations.

01

02

Professional International R&D Team

Continuously innovating and optimizing.

State-of-the-art Equipment & Quality Control

World-renowned Brand Component Selection.
ISO9001 & 2008 Quality Management Certification.

03

04

Perfect and Reliable After-sales Service

IOT Based Remote Diagnosis and Maintenance system.
A team of skilled and committed engineers are available around the clock, 365 days a year to offer service and support to customers world-wide.



One-Stop Galvanizing Solution Supplier



Turn-key Hot-dip Galvanizing Plants

- Custom Plant Layout Design for Maximized Operations.
- Full-line Galvanizing Equipment Design, Engineering, Manufacturing, Installation, Commission.



Wedone Environment & Energy Technology (Shanghai) Co., Ltd. is dedicated to deliver quality galvanizing equipment, galvanizing engineering solutions and technical service to the galvanizers worldwide.

Eco-friendly Automatic Hot-dip Galvanizing Lines

Features:

- Enclosed pickling house to prevent atmospheric discharge of acid mist.
- Automatic Logistic RGV system for Pickling Pretreatment.
- Intelligent hot-dip galvanizing furnace energy management.
- State-of-the-art environmental protection equipment to minimize all amissions.
- IOT based control and information system for galvanizing production lines.





Automatic crane systems

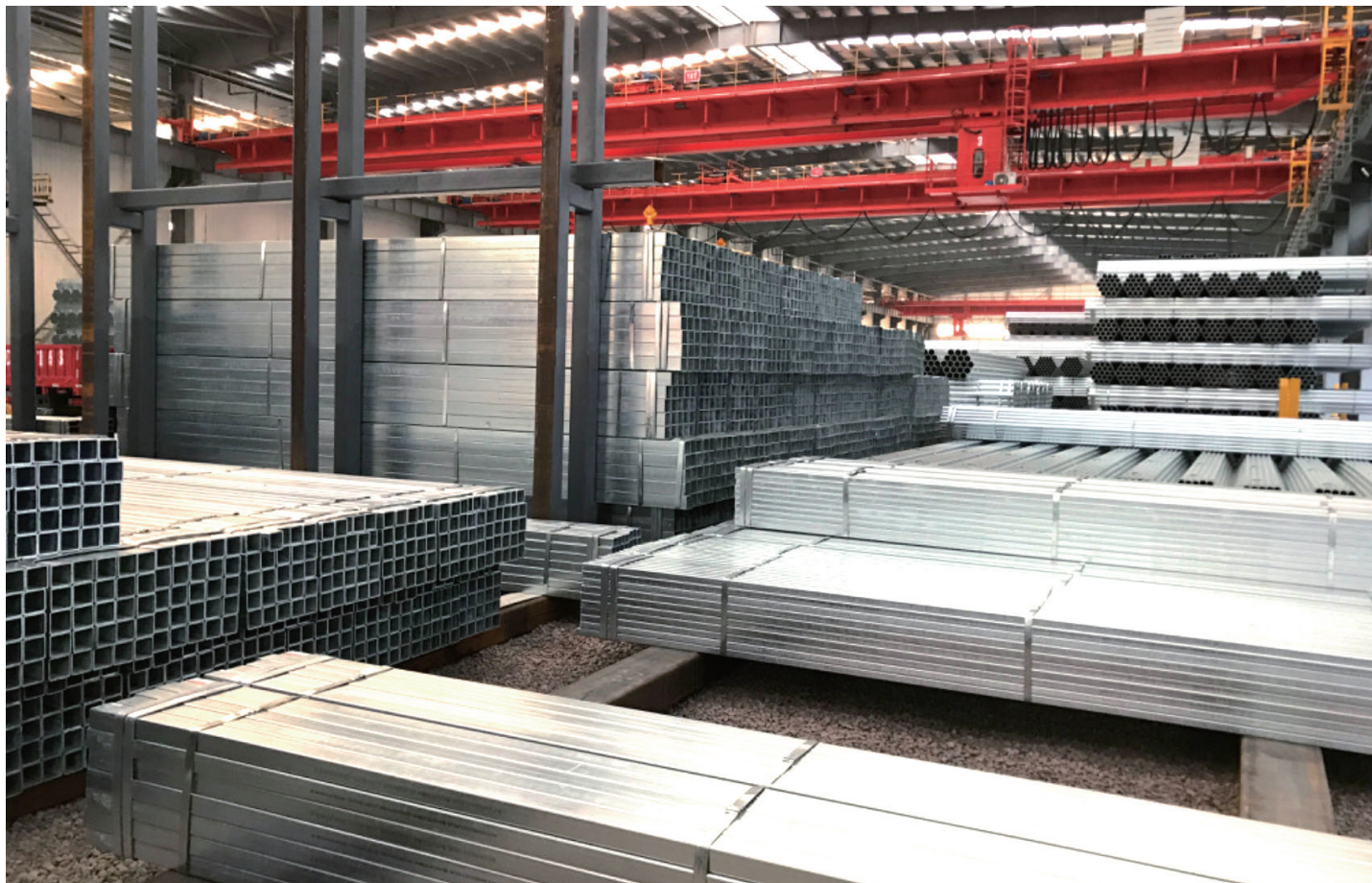
- Precise positioning.
- Saves labors, enabling fully automatic pickling pre-treatment.
- Stable and efficient production target of 6 – 10 dips per hour.



■ Steel Pipe Galvanizing Plants

Features:

- Galvanized Steel Pipe Specification:
Round pipe: $\Phi 20$ — $\Phi 325$ mm;
Square and Rectangle pipe: 20X20—200X200mm.
- **Proprietary** fully automatic robotic arm driven steel pipe pre-treatment system.
- Automatic pipe delivery conveyor system.
- Fully automatic, after galvanizing, pipe blowing system.



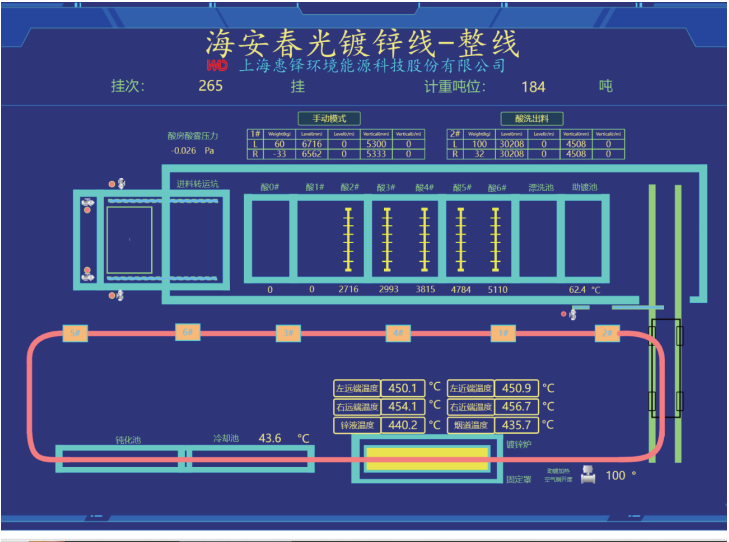
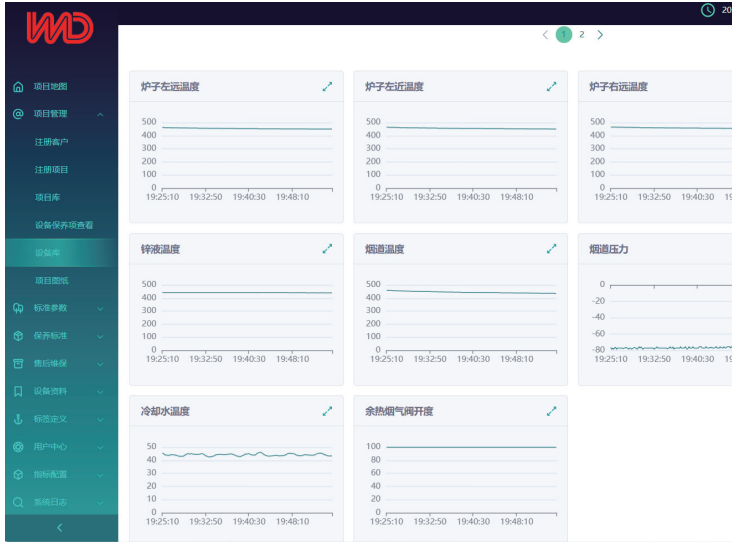
Control & Management System

- Intelligent Siemens 1200&1500 PLC control system for Hot-dip Galvanizing Production Line.
- Reliable SCALANCE W Industry WIFI communication networks make the DATA operation smooth in RGV automatic logistic system.
- Big data information collection and retrieval using cloud storage to provide comprehensive operational control and demonstrate environmental compliance.



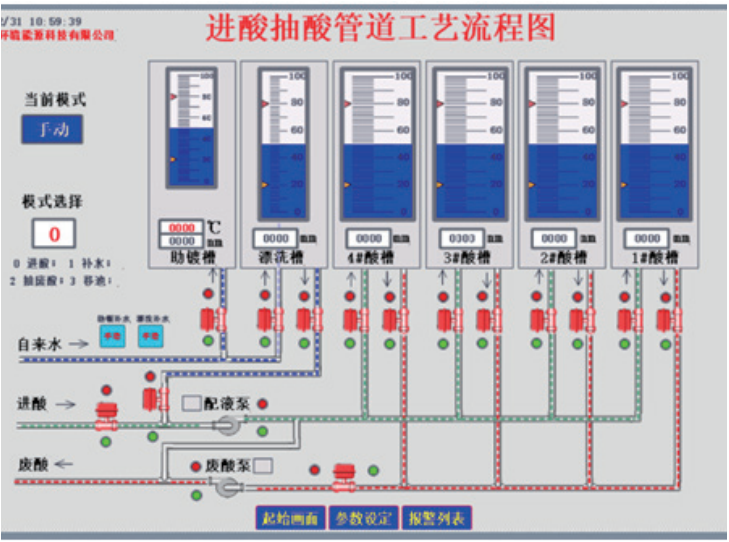
Remote Operation System

- IOT Based Remote Diagnosis and Maintenance system provides to remote production supervision and real-time trouble shooting in case of operational irregularities.
- Data cloud storage and history tracing.
- Multi-level password authorization ensures data security.



Chemical Tanks Management

- Acid pumps control unit/ Auto acid pumping.
- Measurement and Control:
 - Level
 - Temperature
 - Concentration (%)
 - Density
 - Metal ion concentration
- Manages metal ion concentration to reduce zinc dross and improve galvanizing quality and appearance.



■ Galvanizing Equipment

01



Hot-dip Galvanizing Furnace

- Professional thermal transfer balance calculation and computer aided flow field design to optimize furnace combustion chamber and burner layout design.
- Custom made **ECLIPSE ultra low Nox emission FN-SER burner** for Hot-dip Galvanizing application ($\text{NOx} \leq 50\text{mg/m}^3 @ 3\% \text{O}_2$).
- High Velocity Pulse-fired Combustion System (flame outlet speed: 165m/s) enhances convective heat transferring. Combustion configure comply with **US NFPA86C and Europe EN746-II Safety Codes**.
- Kettle is equipped with insulated heat shields to eliminate the danger of hot spots.
- The furnace is lined with nanomaterial insulation and a ceramic fiber wall, ensuring low heat loss from the outer furnace walls. The temperature rise of the outer wall surface is less than 25 °C , at the rated production capacity of the furnace.
- High thermal efficiency ; Gas consumption saving up to 30% compared to conventional furnace.
- State-of-the-art modular design and the factory pre-construction allow simple and rapid on-site installation.
- Siemens PLC based intelligent HDG control and management system featuring ZINC Auto Melt, gas leakage and ZINC leakage warning devices, self-troubleshooting, remote diagnosis and supervision function, providing 7X24 around the clock via **Mobile APP technical support**.

Heat Recovery System

- System engineered for customer' s specific requirement.
- Heat tube exchanger recovers up to 20% of the heat input to the furnace.
- Skid-mounted for easy shipment and positioning.
- Metal clad insulated piping to minimize heat loss.
- Integrates with flux heating systems.

02



Kettle

- Material: AGXG08 Low Carbon Steel.
- With 2 top reinforcing edge plates.
- Round all vertical and horizontal corners (R=200mm).
- Plate Thickness: 50/60mm.
- Cold bending, no corner welds.
- Ultrasonic test by the third party, inspection report provided with the shipment. Complies with GB11345-2013 and other related manufacturing standards.
- Annealing Treatment available before shipment (Option).

03



Flux Regeneration System

- Fully automatic flux regenerating package system.
- Custom engineered skid mounting for easy shipment and installation.
- Reduce flux iron concentration to below 2 g/l which helps to reduce immersion times, zinc pick-up, dross formation and coating defects. Overall improvement in galvanized surface quality.
- Automated pH adjustment and oxidizing agent injection.
- Filter press area 15-60m².



Baghouse Fume Filter

- Guaranteed to meet or exceed the national atmospheric particulate emission code.
- Heavy duty steel housing construction.
- Modular design with easy access for bag inspection and removal.
- PLC based control panel.VFD employed for adjusting extractor speed to save energy.
- Pulse jet for bag self-cleaning.
- Differential Pressure indication and warning.



Fume Enclosure

- Capture more than 95% of white fume.
- Heavy duty steel construction.
- Easy accessibility for skimming ash and maintenance.
- Automatic door control, door positions are interlocked with extractor VFD control to save energy.
- Keep the galvanizing workshop clean.



07

Enclosed Pretreatment

- State-of-the-art environmental technology and sensors to reduce health hazards of workers.
- Acid resistant construction.
- Heavy duty steel structure.
- Controlled air flow maintains the negative internal pressure prevents acid mist escape to the atmosphere.
- RGV hoist cable passes through a gasket seal in the roof of the enclosure to prevent acid mist escape and protect drives.
- Motorized transfer trolley, conveyor, or dryer bring loaded jigs in and out of the enclosure.
- Automatic enclosure controls.





08

Acid Gas Scrubber

- Series connection of towers with dual stage spraying to meet regulatory emission standards.
- Custom designed spray tower size and extractor volume capacity to meet customer's specific requirements.
- Made with corrosion resistant materials.
- PLC based control system for automatic dosing to adjust pH value and required pressure control.



Around the world Communication & Cooperation

■ Our Partner

