

## Brief Introduction of Electrolytic Copper Refining Plant



The copper electrolysis plant uses the electrolysis technology to purify and enrich copper. The main equipment in the electrolysis plant includes electrolyzers and corrosive materials, electrolytes and circulating pipes, pumps, ventilation facilities, and anode and cathode units.

### **Product Features (Characteristics)**

Our design for your electrolysis plant has the following characteristics:

1. The configuration is reasonable, compact and easy to manage.
2. Adopting China's mature and reliable production technology to reduce construction investment.
3. The anode plate loading trough adopts ordinary bridge crane, special spreader, and manual assist.
4. The starting sheet processing is mechanized and manually assisted.
5. The anode plate is shaped and processed by manual method, and the place where the automatic unit is used at the appropriate time is reserved.
6. Adopt various energy-saving measures to reduce energy consumption.
7. Strengthen the lighting and ventilation of the workshop and improve the labor hygiene conditions.
8. It is recommended that the anode plate be quantitatively cast to create favorable conditions for the electrolysis workshop to improve product quality, reduce energy consumption and reduce labor intensity.

### **Product Appearance (Structure)**

Our design scope for your electrolysis plant:

- 1) The full process design of the workshop including process calculation, craft configuration, non-standard process equipment design, standard process equipment calculation and selection, process pipeline design.
- 2) Water supply system design of the workshop.
- 3) Heating system design of the workshop
- 4) Design and type selection of direct current system, including design of DC busbar, design and type selection of direct current equipment.
- 5) Procurement scheme of crafts materials, compile purchasing list

The following are provided by buyer:

- 6) Design of civil engineering drawings

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- 7) Power supply part, including power distribution room, layout of the power line, workshop light. (Provide power supply, installed capacity etc.)
- 8) Electrolytic direct current is high voltage power supply, the buyer is responsible for supplying power to rectifier.
- 9) Purification system direct current is low voltage power supply.