

Continuous Automatic Quenching Tank

This belt lifting continuous automatic quenching tank is designed for targeted research, development, design and production according to the technical requirements of continuous quenching production lines. It has high temperature resistance, corrosion resistance, a high degree of automation and adjustable net belt speed.



ADDITIONAL IMAGES



Overview



High-Automation Continuous Quenching Solution

This belt lifting continuous automatic quenching tank is a digital integrated multifunctional system designed for high-volume hardening production lines. It features a robust stainless steel construction and offers high temperature and corrosion resistance for demanding industrial environments. The system ensures stable conveying performance and energy-efficient operation, making it an ideal choice for modern digital factories.

Key Features

High Automation, Corrosion Resistant, Energy Saving, Digital Integrated, Adjustable Speed, Continuous Production

System Composition



System Components

- Stainless steel tank body
- Belt lifting system
- Heating system with stainless tubes
- Cooling circulation system
- Spray system with pressure sensors
- Stirring system with impeller
- Sensor network (Level, Pressure, Thermocouple)
- Integrated control system

Technical Specifications



Elevator & Conveyor Details

- Stainless steel mesh belt
- Integrated baffles
- Chain drive with reducer
- Stepless adjustable speed

Material Construction

Stainless steel channel steel, pipe, angle steel bracket, and welded stainless steel plate

Control & Connectivity

Control Hardware

- PLC (Programmable Logic Controller)
- HMI Man-Machine Interface
- Frequency converter
- Digital temperature controller
- Manual and Automatic dual-mode control

Network Interface

Ethernet

Digital Factory Ready

Yes

Thermal Management

Cooling System Type	Glue-free embedded plate heat exchanger with pump and pressure sensors
Heating Element	Stainless steel heating tubes