

Automated Electrode Production Line

This automated production line is designed for efficient electrode manufacturing. It utilizes robotic arms and a conveyor system to streamline drilling, tapping, and milling processes, improving production efficiency and reducing manual operation.



System Overview

Automated Electrode Flexible Production Line

This automated electrode production system is engineered for high-efficiency, unmanned manufacturing environments. By integrating advanced CNC processing centers with industrial robotics and a centralized management system, the line enables fully autonomous material handling and machining. The system is designed to streamline workflows, allowing operators to assign tasks via a PC while the intelligent scheduling system manages robot-to-CNC interaction for continuous production.

System Configuration

CNC Processing Centers	4 units
CNC Control System	Fagor
CNC Axes	3

Robotics & Handling

Robot Payload Capacity

20 kg
Payload

Robot Degrees of Freedom	6
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Infrastructure

Linear Guide Length	15 meters
Workpiece Storage Capacity	80 stations

Safety & Compliance

Safety Equipment	Security Fence, Security Door
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Operational Features

Automation Capabilities

- Automatic scheduling
- Automatic loading/unloading
- Unmanned operation
- PC-based task management