

# 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