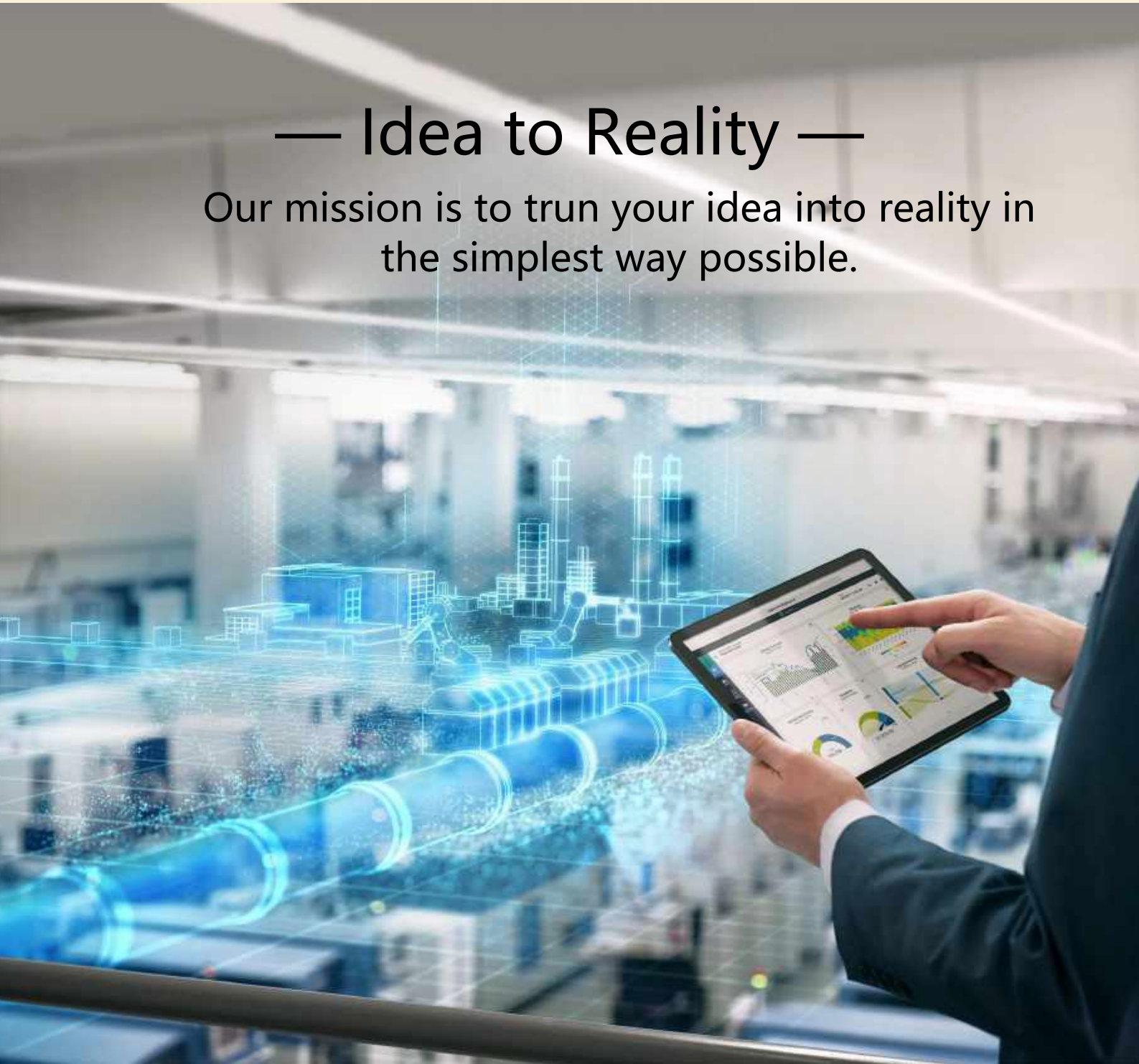


One idea. integrated solution.



— Idea to Reality —

Our mission is to turn your idea into reality in the simplest way possible.



**Automatic
Control System**

**Package
Construction**

**System
Integration**

MES

Shanghai Ziyou Electric Co.,Ltd.

One idea. integrated solution.



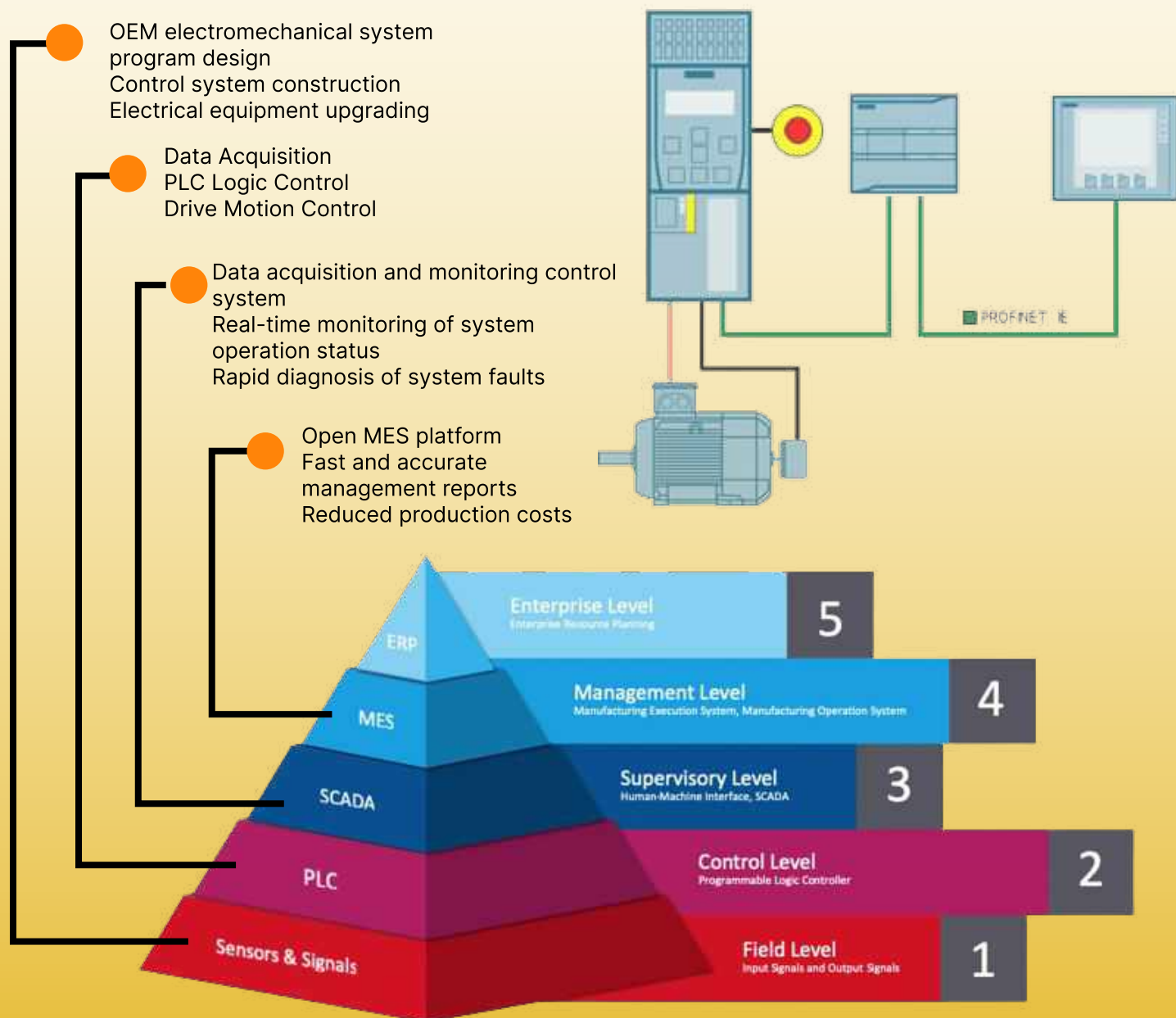
Company Profile

Our company specializes in designing Siemens industrial electrical automation solutions and control cabinet sets with a commitment to excellence in engineering. Our range of services includes **OEM** electrical control system design, cabinet set construction, equipment electrical system upgrades, **SCADA** system application, **MES** application for manufacturing enterprise production processes, and more.

We adhere to strict international standards in the design and manufacturing of our products to ensure reliability and safety. Our team of experienced professionals offers top-notch technical support to our customers, whether it's a new project or an existing system upgrade. We strive to provide the best solutions to add value to our customers' operations.

With a focus on innovation and customer satisfaction, we aim to continuously improve our products and services. We look forward to partnering with you to achieve excellence and create a better future together. Let's design with passion and deliver exceptional projects!

Business Scope



Automatic Control System

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System Integration

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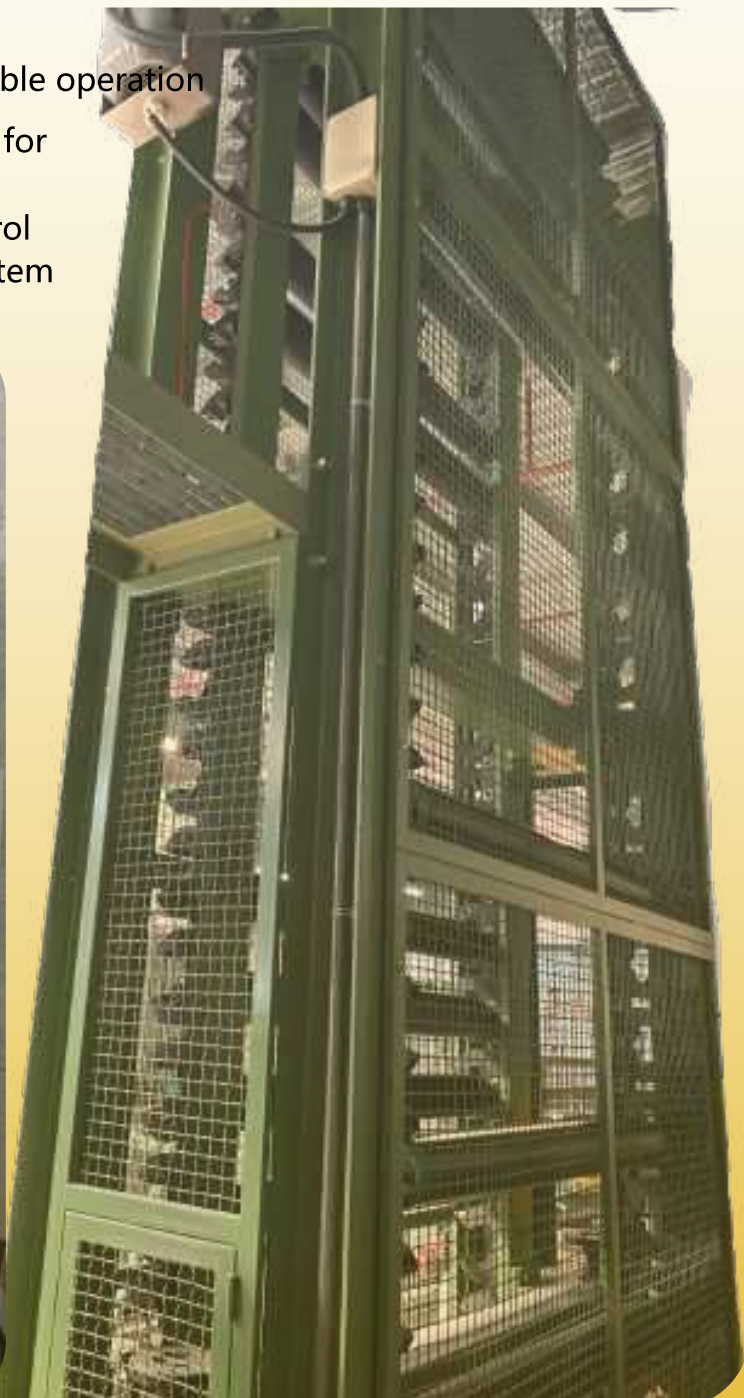


Successful Cases

Automatic storage for shaft workpieces

Access racks make full use of the workshop height space, generally arranged against the wall, widely used in the printing and packaging industry pressure rollers, plate rollers and other long shaft parts storage, can be customized according to the length and weight of the access parts.

- Digital positioning of any workpiece position, full-stroke positioning error is less than 1mm.
- Shortest path location, fast location
- Easy to operate with left and right sideways movement of the access shelf for automatic alignment
- Automatic hibernation when idle, long-term stable operation
- Dual racks can share a common control system for easy management.
- Directly connected to the upper industrial control network, integrated into the factory SCADA system



Automatic Control System

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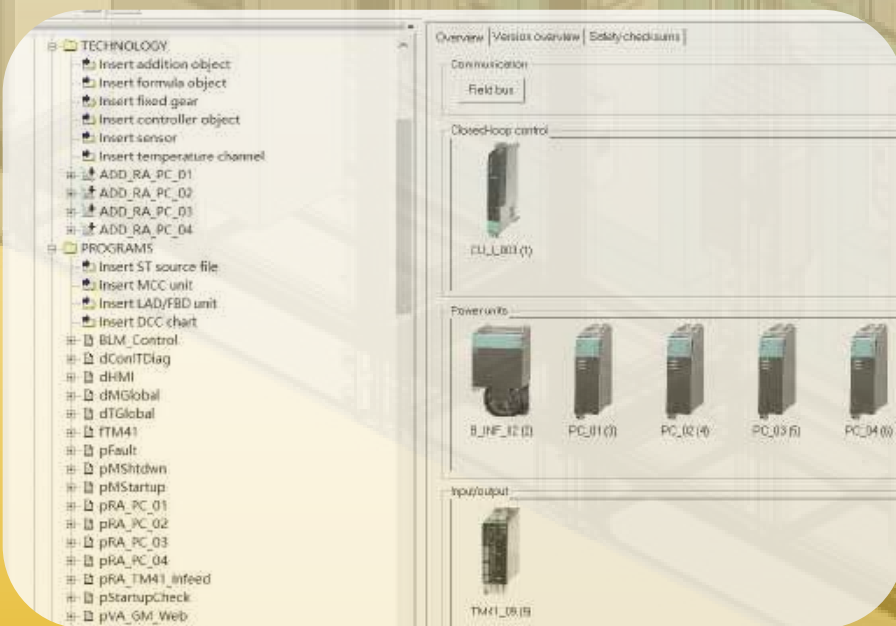
Successful Cases

Printing machine control system

Reel-to-reel printing machine control system adopts Siemens **SIMOTION** motion controller and **SINAMICS** drive, double unwind and double rewind, full-speed automatic roll change. Angle synchronization or tension adjustment between printing units is optional, speed up to 350m/min, part of the performance exceeds the German imported printing machine, widely used in paper film printing.

- Full-speed automatic reel change, unwind and splice length adjustable in cm steps.
- Full digital positioning, printing positioning accuracy <0.1mm
- Optimized temperature PID controller, fast and accurate without overshooting
- Optional printing process paper width detection, automatic control of non-sleeve side of the flower color clear
- Optional operation data logging, web access to view real-time and historical records, to facilitate the cause of fault investigation
- Directly connected to the upper industrial control network and integrated into the factory MES system.
- Optional automatic display and recording of the actual squeegee angle during printing.

SIEMENS



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System Integration

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SCADA & MES Application

SCADA data acquisition and monitoring control system

Data acquisition communication protocol: **SIEMENS S7, Modbus TCP/RTU, CanBus**
Open platform, can be extended at any time, unlimited number of label points, web page web sharing, convenient and quick

Organizes internal industrial control network, deploys private server timing database, and customizes Kanban interface.

MES manufacturing enterprise production process execution system application

Real-time update of real-time order fulfillment status of production equipment based on data collected by **SCADA**.

Pulls data from SCADA time series database to generate reports for production management and decision making.



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Successful Cases

OEM Control Cabinet Customization & Electrical Control System Upgrade and Modification

● OEM control cabinet customization

Design electrical control cabinets, complete sets and debugging according to customer's process.

Processing and commissioning according to customer's design drawings.

Full 3D design.

● Electrical control system upgrade

SIEMENS ProfiBusDP upgraded to ProfiBusPN for improved device stability

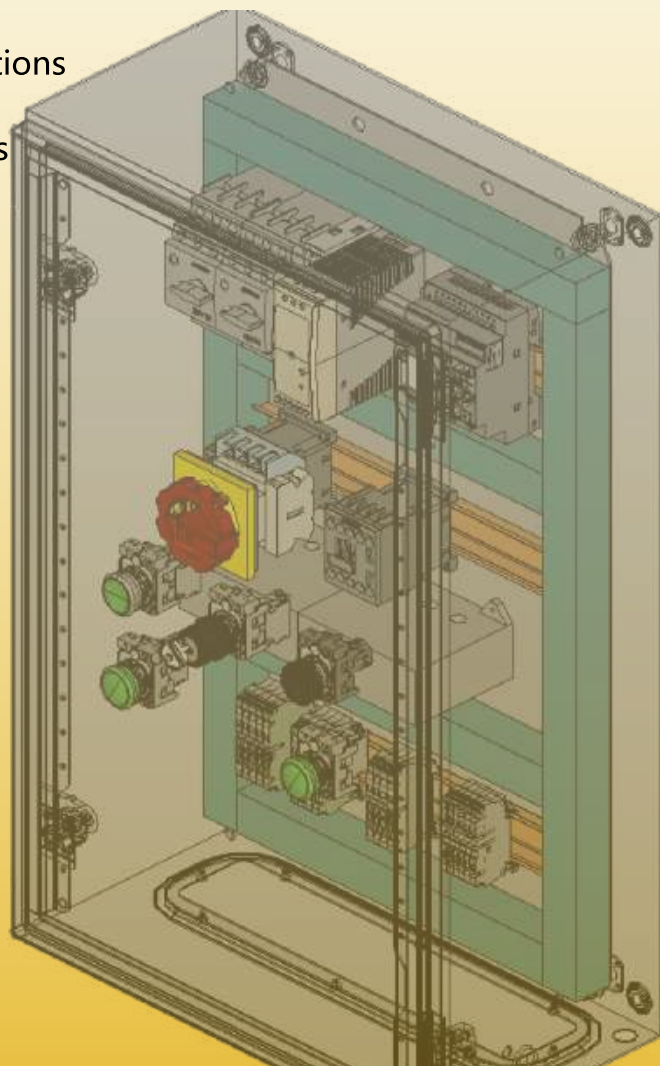
Upgrading PLCs for SCADA Data Acquisition Applications

SIEMENS 6SE70 Drives Upgraded to SINAMICS Drives

Imported original device with the function of substitution selection

PLC program upgraded or rewritten for the process

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Rapid Recipe Mixing System & Vision Application

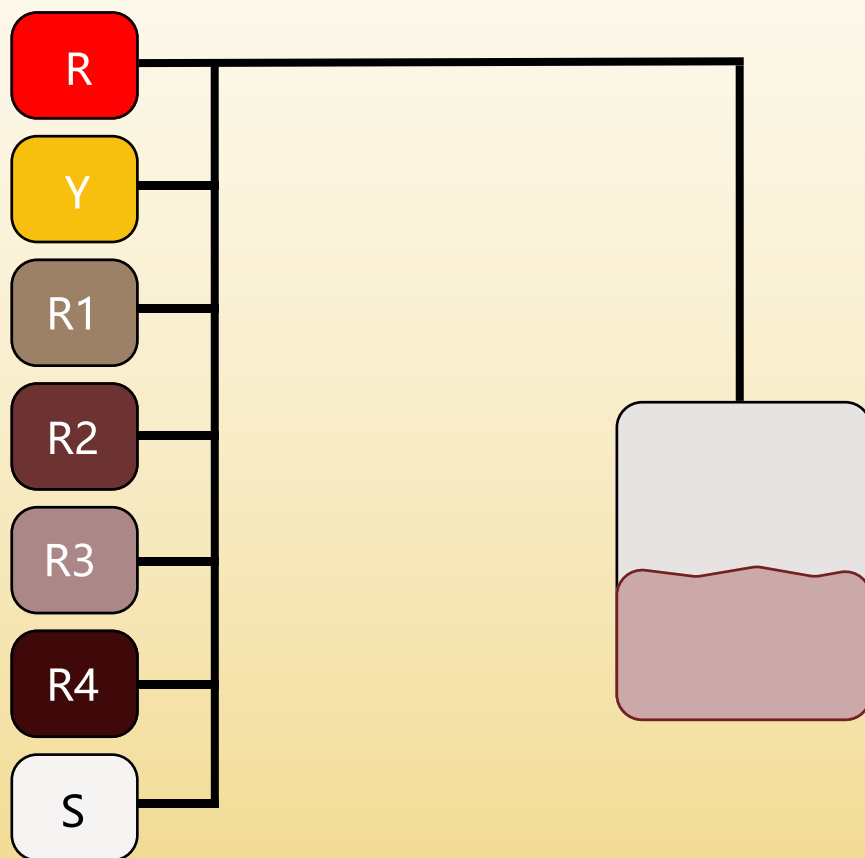
● Rapid recipe mixing system

Water-based ink formulation mixing system is simple and fast, accurate dosing.

Work with formula calculation software to fully utilize the remaining ink and reduce production costs.

Data is saved directly to the system database.

SIEMENS



● Visual Applications

High-speed acquisition and saving of images according to PLC signal state and identification of the current state to each frame.

Online image acquisition, real-time processing and analysis of paper wrinkles.

Material Handling + Visual Recognition Non-Standard AGV Development.



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