

Raute Precision Oy



Country Info

Company

Raute Precision Oy

Country

Finland

Location

Lahti

Specialist for

Weighing and
Dosing systems

Industrial Sector

Glass

Specialist for: Weighing and dosing systems

↓ Company profile:

As a world leader, Raute Precision Oy offers batch and cullet processing plants for the glass industry. After 90 years of experience in weighing, dosing and material processing, the Finnish company always uses state-of-the-art technology in the batch plants to guarantee a homogeneous batch and maximum dosing accuracy. To increase the reliability of the batch plants, Raute also values top class components in the control. In cooperation with Siemens WinCC screen displays were developed for this which are equally suitable for conventional WinCC applications and for integration in more complex PCS 7 systems.

↓ Case study:

An example of the use of Siemens technology is the delivery of a batch plant and a cullet return line to the Unitex Glass Co. Ltd. in Xiamen in China. To ensure the two melting furnaces are always supplied reliably with batch materials, the plant is equipped with two controllers operating in parallel, with one on duty and one as hot-standby. This means that operation of the plant is not interrupted when one controller fails.

The redundant function has been implemented in many sections. The HMI has two redundant WinCC SCADA servers and two monitoring stations in case of a server failure. The redundancy in the process control is provided by a highly available system with two Simatic S7-417H CPUs. The weighing systems controlled by the Raute WB950 batch controllers are connected to the PLC via Profibus and Y-Link modules. The inputs/outputs for dosing, mixing and feeding of the melting furnace are particularly critical: the switch that used for this can be controlled by both CPUs. Simatic S7-412 controllers are in charge of raw material feed and cullet recycling. The system's Ethernet is connected with Raute Service via a fast ISDN or Internet for monitoring and telemaintenance of the whole plant.

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