

KLIN AUTOMATION AT HINDWARE SANITARY



PROJECT : Klin (furnance) automation.

LOCATION : Hyderabad, India.

CLIENT : Keramischer Offenbau.

SERVICES : Design, Supply & Field Services.

DESCRIPTION

Hindware is a major player in sanitary product market of India. It manufactures various types of sanitary products. Sofcon has successfully done automation of Klin 110 meters long in which 2700 units of product are manufactured per day. Temperature and pressure control of its each zone by which the products gain their desired strength and color and other properties has been successfully done by our automation system. Transport system automation which controls the movement of all the products is also done through PLC and SCADA.

BENEFITS

- Best quality products manufactured under controlled environment.
- Easy troubleshooting and modification in the production system
- Production efficiency of 80% achieved very easily.
- With the latest control system in place maintenance of the system is easy.
- Automatic temperature, pressure, transport system control has resulted in more consistent production and quality control.
- Fault analysis has reduced breakdown time.

PRINCIPAL FEATURES

Controllogix control system controls the whole system by using 750 input outputs and 5 Powerflex AC drives. The whole system is comprised of these subsystems:

- Transport system: Motion control of hydraulic pushers and Transfer cars i.e. their direction and speed control by using drives and digital inputs and outputs.
- Burner control system: In this we have controlled the burners and their respective zone temperatures by controlling the supply fuel and air through PID system and pressure control with drives.
- The overall system is controlled by Controllogix redundant system along with media redundancy. The system works on Controlnet and Ethernet media redundancy.
- Easy operator friendly system by SCADA and HMI.

