



GAW technologies GmbH

Scope of Project	Automation of processing of coating colours
Particularities	Batch and recipe management; intelligent production control
Plant Location	More than 100 plants worldwide
Client	GAW technologies GmbH

KEY FACTS

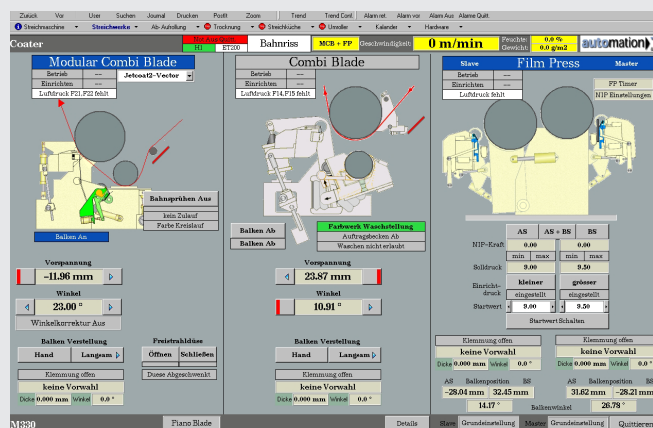
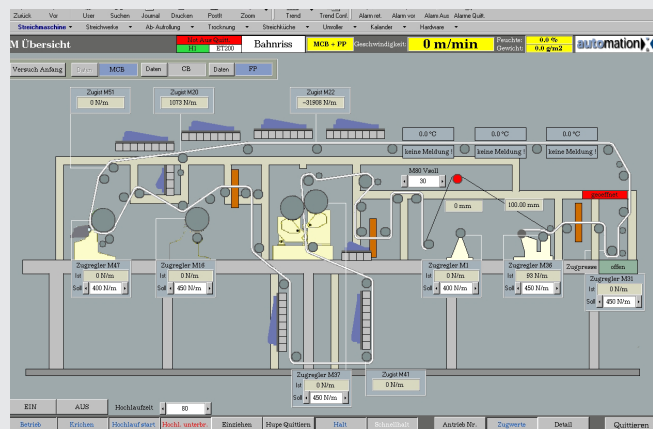
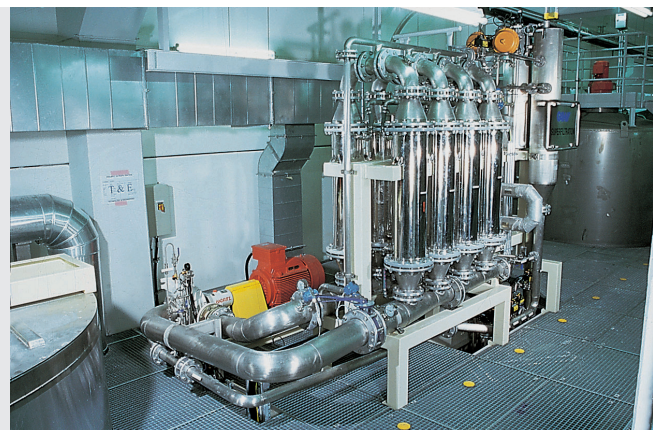
aX Software	automationX, redundant
aX Hardware	aXpbc1 Profibus counter
aX Server	redundant server pairs
aX Client	up to 20 operator stations
I/O's	up to 4,000 per plant
Data Points	up to 20,000
Interfaces	ERP system, PDA (Production Data Acquisition), PIMS (Production Information Management System), PI (Process Information), MIS (Mill Information System), MICS (Mill Information and Communication System), serial interface
Network	Control system: Ethernet Field: Profibus, Modbus

OUR PARTNER

For more than 50 years, the name GAW has stood for competence and quality in industrial plant engineering and construction. The family business with its headquarters in Graz is the centre of the GAW Group which operates on an international level and concentrates on four strategic business areas:

- ▶ paper and cardboard industry
- ▶ automotive industry
- ▶ chemical industry
- ▶ environmental technologies

The GAW Group offers complete industrial solutions in all sectors ranging from research and development, consulting, engineering and manufacturing, logistics, installation and start-up to training and after-sales services. All services are carried out according to the individual customer's wishes.



THE SOLUTION

Together with GAW, more than 100 plants around the world have already been established. The scope of supply of a typical processing of coating colours includes: management of raw materials, coating colour processing via a batch system, quality control system, working stations, ultra filtration, and ancillary facilities. End customers of GAW include renowned international paper manufacturing groups such as Sappi, MD Papier, m.real, and Felix Scholler, just to name a few.

Details of Coating Colour Processing

In order to achieve the appropriate paper and cardboard quality, the surface is coated with coating colour. The most important components of coating colour processing are dispersion machines, and filter and metering systems.

Scope of Coating Colour Processing

The typical scope of a plant includes the configuration of fully automated coating colour processing in which the coating colour is discontinuously or continuously mixed from different components via a batch management system. Particular attention must be paid to the quality of the coating colour preparation and this is why automatic quality control is carried out during processing.

Automated Production

By recording parameters such as machine speed, coating width and application weight, the required quantity of coating colour is determined. automationX calculates the required coating colour preparations based on the quantity in order to avoid losses due to excess production of coating colour. Another important requirement to be fulfilled by automationX software is the control of the wastewater amount and the recovery of coating colour from the wastewater, which is lost in rinsing sequences or paper break.

Requirements to be Fulfilled by automationX

The requirements to be fulfilled by automationX range from new plants to the expansion and modernisation of older plants in which the existing controls are replaced by a state-of-the-art process control system and decentralised peripherals. All production data is archived and thus can be used later for analyses and evaluations. Further tasks include the management of orders featuring the corresponding collection of data and material accounting.

