

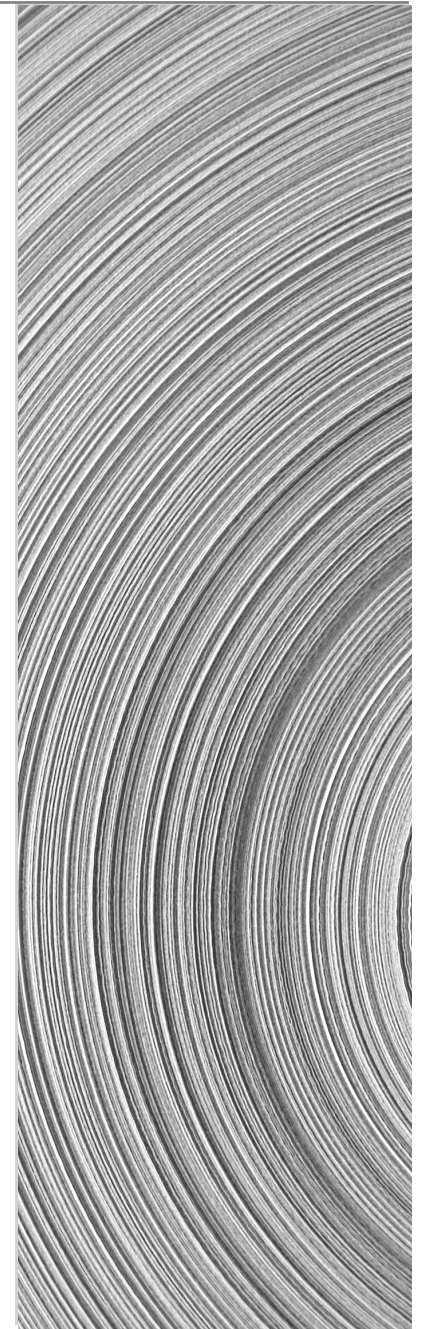
Services

p+p project automation ag provides services in all areas of the pulp and paper industry and other industries including converting and auxiliary systems

we provide the following assistance for new plant projects, rebuilds, refurbishments and extensions:

Project management and engineering services for electric, automation, controls for stock preparation, paper machines, board machines, special machines and their accessory systems, such as approach flow system, reject system, vacuum system, hood & ventilation, steam & condensate system, etc. with the following contents:

- **Project management**
for all electrical and control components of a paper mill with responsibility for the automation and control system, with direct contact to the customer and subcontractors.
- **Feasibility studies**
Implementation of pilot projects and feasibility studies.
- **Concept designs**
for all automation tasks and for controls, from the high voltage feed via MCC, MCS, DCS, QCS to parent mill wide systems.
- **Full responsibility for costs** in the field of automation and control.
- **Basic engineering**
consisting of loop lists, motor lists, equipment- & instrument lists, time scheduling, concepts, specifications, definition of interfaces to other systems.
- **Engineering, inquiries and ordering** (delivery on request) of the C&I- field devices (instrumentation) including job tracking and scheduling control.
- **Request specifications**
for parts, systems and planning efforts, concerning sub-suppliers.
- **Planning and construction of control panels and control boxes** including order processing, on-time control and acceptance.
- **Logic diagrams & monitor displays** (independent of control system).
- **Software engineering**
for programmable logic controllers (PLC) and distributed control systems (DCS). Experienced in the following systems: PCS7, HMX, ABB, Alstom
- **Loop- & terminal-plans**
for PLC and DCS using "state-of-the-art" CAE systems.
- **Acceptance tests FAT** (factory acceptance test) for DCS and PLC, together with suppliers and customers.
- **Planning and design of PLC systems.**
- **Installation engineering**
for electric and C&I- assembly, hook-ups, material lists, cable lists, request specifications for electrical and C&I- erection.
- **Coordination of all automation** for all orders.
- **Electrical and C&I- installation supervision** for process automation and control systems.
- **Commissioning & start up** of process automation and control systems for our customers worldwide.
- **Training**
of customer's operators and staff



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