Composite Plant Solutions for the pulp and paper industry
Composite Plant Solution is more valuable than a package of products

Large projects require supply coordination and the total integration of products and services. This is where the benefits of the Composite Plant Solutions come in.

Purchasing process automation and electrical systems in several separate packages involve a great deal of work. This may also lead to unexpected costs in maintaining the integration of products and solutions not designed to work together, not to mention about production and energy efficiency.

By offering Composite Plant Solution, ABB provides many valuable benefits to the customer. As a leading power and automation technology company, we can provide an extensive portfolio of advanced systems, products and services to the pulp and paper industry. Close co-operation between ABB and project parties ensures effective, high-quality knowledge transfer and project implementation.

All-in-One EPC package
The ABB Composite Plant Solutions EPC package enables engineering, procurement and construction (EPC) to be provided under a single contract. The delivery for a pulp or paper mill covers the engineering design, construction and commissioning of the entire mill process from the incoming power supply to field instruments and motors, including all of the necessary products, solutions and services as well as project management. Where necessary, we also coordinate the other deliveries connected to the project. The focus being on the customer, the Composite Plant solution is always adapted to your needs.

When this optimized package is integrated with our Full Service maintenance services, the result is a solution bringing unprecedented improvements in production efficiency.

Using a single vendor often means reduced costs as only one contract needs to be managed instead of many. One contract also reduces the project risk, since multiple contracts often leave gaps between the different vendors, through which the purchaser is often exposed.

All systems delivered as part of Composite Plant Solutions enable seamless integration with each other. ABB systems are based on the 800 series, meaning that only certified products and solutions may use this brand. For the customer, the branding means e.g. concise information in a familiar office format, simplified displays and report configuration and instant access to all 800xA data which is just a mouse click away.

A unified ABB technology platform is easy to use and maintain. This also means direct cost savings and production efficiency for the life of the plant.

Customer Benefits
- A single supplier
- Professional project management
- Cost efficiency
- Risk reduction
- Integrated solution
- Energy efficiency
- Local support
- Global sourcing
Ensuring optimum performance with ABB’s systems and services

As an experienced supplier, we understand the demands of a delivery process. It is our priority to maximize process uptime and minimize losses. The core systems and services in a Composite Plant Solution are:

**Field Services** – ABB’s full portfolio of field services for products and systems – from spare parts to consulting and asset optimization – improves productivity, minimizes costs and extends useful equipment life. With a global team of service professionals, we provide fast and efficient response. Our trained and certified people help you avoid downtime and get you back online as soon as possible.

**Instrumentation** – We offer a full range of fieldbus instrumentation, all leading brands in the industry. ABB’s integrated instrumentation solution includes the supply of field devices and the related off-site and on-site services.

**Process Control** – ABB is a major supplier of automation projects in a range of industries. Every component in the plant is seamlessly integrated and provides instant access to information throughout the entire operation. This can be stand-alone or a part of our integrated solution, Papermaking Suite.

**Expert Services** – Our extensive selection includes pre-engineering, budget estimation, equipment, logistics, installation, testing, commissioning and start-up.

**Quality Control** – Our core knowledge consists of quality control systems for paper and paperboard. Scanners, measurements, profilers and control software deliver optimum sheet characteristics and maximum production.
Expert Services – Our extensive selection of services includes e.g. pre-engineering, projects management, logistics, installation, testing, commissioning and start-up.

Power distribution – We offer complete power distribution solutions including e.g. network dimensioning, calculation and services, high voltage switchyards, power and distribution transformers, medium voltage switchgears, protection systems, network control and energy management systems.

Quality Control – Our core knowledge consists of deliveries of quality control systems for paper and paperboard machines. Scanners, measurements, profilers and control software deliver optimum sheet characteristics and maximum production.

Facility Management Systems – ABB’s facility management and engineering service includes lighting and power distribution, communication systems, fire detection systems and security systems within the plant. Allowing ABB to integrate facility management requirements into the plant design and implementation provides your operating and service staff with the consistent and logical organization of subsystems, expediting the servicing of your plant in the long term.

Process electrification – We offer complete process electrification solutions including network configuration and design, medium and low voltage motor control centers, frequency converters, motors, installation materials.

Drive systems – ABB is a pioneer in paper machine drives for the forest industry. We sell and deliver permanent magnet motor drives for direct drive paper machines plus other direct drive motors. Our advanced Drive technology improves the efficiency of the paper machine and contributes to cost-savings.
ABB invests to enhance your operations

Life Cycle Management
At ABB, life cycle management is an important issue. We have a global network of professional and qualified experts at your service. In addition to projects that cover the entire scope from engineering to start-up services, we also have a wide variety of refurbishment and retrofit services that enable extending the lifetime of existing products and solutions.

Energy-efficient technology
The forest industry is a remarkable energy consumer. In many cases, energy prices are a crucial factor when making decisions on profitability.

In ABB, the priority is to contribute to the overall effectiveness of mill systems and promote sustainable life-cycle issues. Efficient power and automation solutions lower operating costs and reduce emissions. We provide proven, high-quality products and solutions to ensure maximum process availability at the plant.

E.g. for high electricity consuming plants, a well designed power system can deliver substantial energy savings. ABB’s power management systems can pay for themselves in a short space of time by ensuring the efficiency of power generation, import and usage under varying operating conditions.

Global expertise you can rely on
Forest industry business knowledge, professional project management, a global presence and strict compliance with international industry standards enable on-time, high-quality deliveries throughout all project phases, from concept to operation.

ABB’s global capabilities allow us to deliver process automation projects anywhere in the world, regardless of size and complexity. ABB’s extensive and experienced network guarantees the success of your project. In Pulp and Paper, we have completed over 200 projects worldwide and any greenfield or rebuild project can benefit from our experience. Over 2,000 experts in over 40 countries are able to handle every detail and ensure that you are served with care.
ABB Oy
Process Industry
Strömbergintie 1
P.O.Box 94
FIN-00381 Helsinki, FINLAND
Telephone +358 (0) 10 22 11
Fax +358 (0) 10 22 24267

ABB Oy
Process Industry
Strömbergin Puistotie 4 A
P.O.Box 644
FIN-65100 Vaasa, FINLAND
Telephone +358 (0) 10 22 11
Fax +358 (0) 10 22 43829

ABB Industry Pte Ltd.
Industrial System Division
No. 2 Ayer Rajah Crescent
SINGAPORE 139935
Telephone +65 6775 2622
Fax +65 6779 1206

ABB (China) Ltd
Universal Plaza
10 Jiuxianqiao Lu
Chaoyang District
BEIJING, 100016
P.R. CHINA
Telephone +86 10 8456 6688/6306
Fax +86 10 8456 7625

ABB Ltda
Av. dos Autonomistas, 1496
P.O.Box 975 - ZIP 06020-902
OSASCO - SAO PAULO
BRAZIL
Telephone +55 11 3688 9874
Fax +55 11 3688 9983

www.abb.com/pulpandpaper