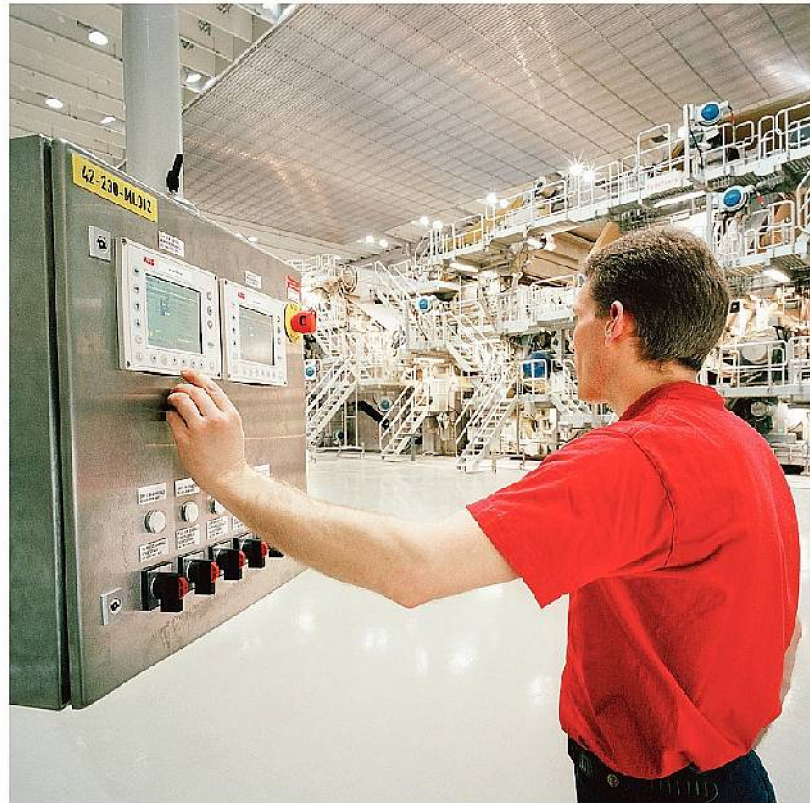


# ABB drive systems – quick and smooth start-ups on a global platform

*ABB is a global market leader in the area of paper machine drive systems. The delivery of high quality world class solutions to all customers with one business model, including the same principal functionality, gives uniform platform for efficient project engineering and ensure fast and prompt start-up and tuning to production.*

**T**he high quality standard system solutions delivered by ABB have been achieved by the consistency and repeatability of the work. In other words, decades of experience and thousands of projects combined with finely-tuned organizational and personnel skills have enabled the development of solutions that not only meet process requirements in all paper making production situations but which can also be implemented quickly and efficiently.



## Ensuring start-up success

A practice of efficient repetitive work is not globally easy to achieve, but as a reference, ABB implements an average of two PM drive systems per week, on time and to the highest quality! So how does the company do this? To begin with, it is to the customer's and supplier's advantage to standardize and stabilize the work as much as is reasonably possible for quick and smooth start-ups. ABB has been able to do this because of its PM Drives Network. The PM Drives Network encompasses a unique business model and a set of so-

lution standards that are the result of years of experience and expertise in paper machine drive solutions. Global application standards constitute the bulk of the network and the know-how contained in these standards is applied effectively.

Within the ABB's PM Drives Network, with defined standards and certification process ensures that all projects, no matter the size or complexity, are supported by experienced personnel at a local level. Operating in this way, ABB will always strive to maintain the highest quality possible. Standard features include proven electrical design for safety and var-



ious safety related functions in the system software.

The quality of ABB's PM drives operation is backed up by clearly defined domains of expertise. For example, local ABB engineering units are authorized at different levels to execute projects to the highest global application standards. These levels are determined by the expected repeatability of the project as well as the experience of project engineers. The authorized units are then committed to train and develop dedicated PM drive experts to efficiently manage the detailed features of the global standards.

**Standard platform for commissioning of large, small or complex systems**

PM drive systems primarily take care of power transmission from

the electrical motors. The motors are regulated by inverters which are themselves highly sophisticated actuators with variety of functions and features as a unit. Providing a standard inverter solution for a single unit is not that difficult, but a standard for a large coordinated inverter system solution (where tens or even hundreds of inverters are involved) is a demanding task. To production machines for different paper types, the efficient platforms of solutions can only be centrally maintained.

Requirements, and standards regarding e.g. safety, may vary around the globe but the overall aim amounts to the same thing – efficient and safe operation. However, primary platform functionality, including safety, is set and distributed to local specialists in ABB's PM Drive Network as a standard global application solution. This work-

ing model is, among the other, a safety assurance in ABB drive deliveries.

**A global operation**

Most paper companies, like many global companies, depend to a large extent on the availability of knowledgeable and experienced local support. These paper companies operate globally, and on a global scale benefit of gaining access to the same solutions and consistent services.

Nowadays, working processes are standardized and the expectations for a smooth and prompt start-up are high. In ABB's unique business model of PM Drives Network these are then made available to each and every project irrespective of whether they are managed locally or globally. There will always be times when wider service resources are required

to solve particular problems. Whether the experts are on site or remotely connected, or both, a global solution is easier to take in command because engineers can quickly navigate the familiar system for any necessary changes.

With ABB's PM Drive Network, customers in any part of the world are offered high quality global solutions with local system service know-how. It is also important for customers to be able to exchange experiences between mills and communication becomes easier if global standard solutions exist. In today's business world, this gives ABB's customers a real competitive advantage. ●

More information: [www.abb.com/pulpandpaper](http://www.abb.com/pulpandpaper)