

Paper Mill Concept 200 Advanced Drive System Solutions



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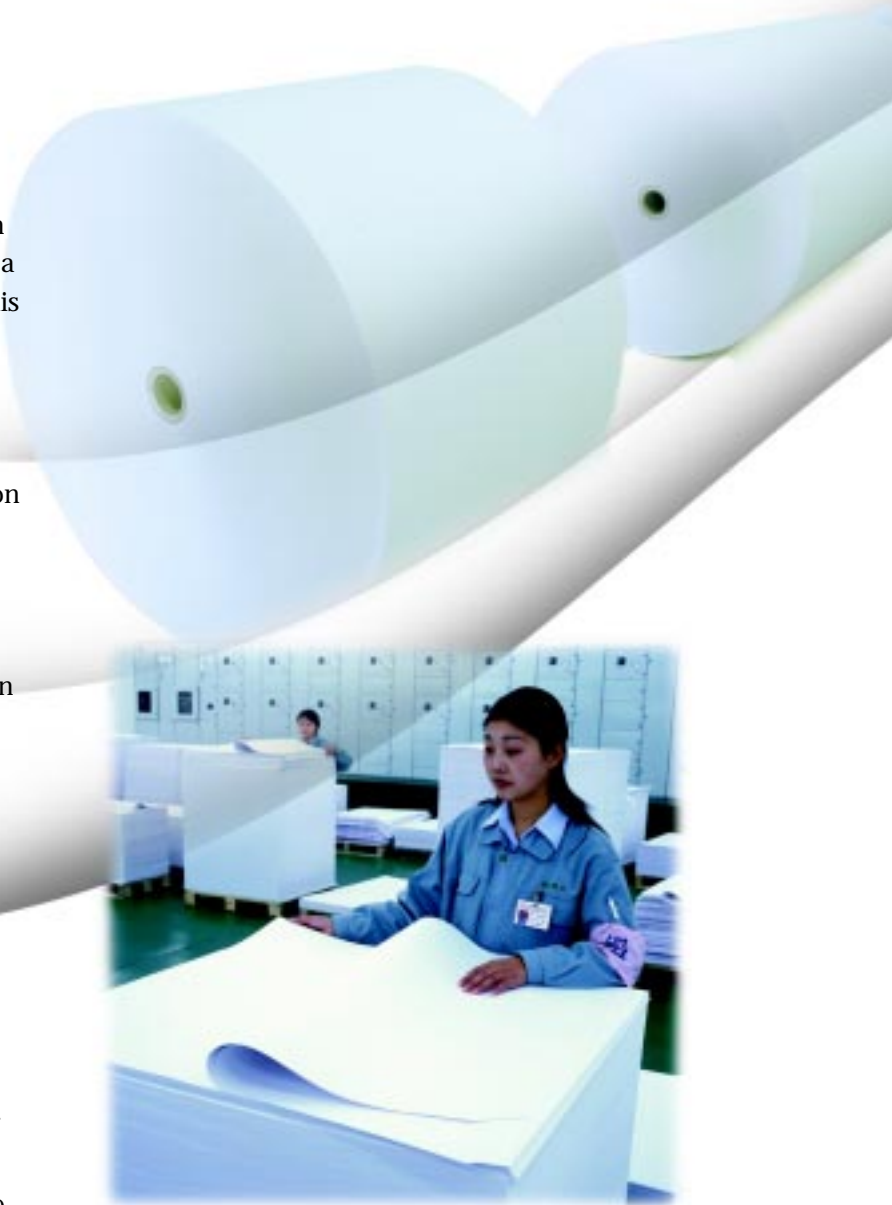
The World's Most Demanding Paper Makers Choose ABB Drives. Around the world, ABB is recognized as the market leader in drive systems. The world's most demanding paper makers use ABB drive system technology on their paper machines and other applications throughout their mills. ABB's Paper Mill Concept 200 (PMC 200™) was specifically developed to meet the paper maker's requirements for high quality drives and services. ABB drives have a long history of innovation and excellence. This has led to the installation and operation of over 2400 systems worldwide.

The PMC 200™ is based on a dedicated core of drive system offerings, advanced application solutions and a comprehensive worldwide network of paper mill drive specialists. An unprecedented line of drive system products for paper and finishing machines meets stringent European, North American and Asian standards.

By choosing the PMC 200™ a mill benefits from:

- Fast startup and quick transition to full production
- Improved paper quality
- Energy savings
- Increased productivity

PMC 200™ joins the ABB Automation suite of Quality Control, Web Inspection, Ventilation, Electrification Systems and other leading-edge technologies as part of the ABB Pulp and Paper's total offering to the paper industry.



Paper Mill Concept 200 is a Combination of Products, Systems and Services

It is based on standard solutions, implemented on a global basis.

A Comprehensive Range of Services

A significant part of a PMC 200™ is the comprehensive range of services offered to the customer. Engineering, commissioning, installation, startup, after sale services as well training can be part of the total solution.

ABB maintains close relations with customers after the PM Drive Systems are running in the mill. This ensures the highest level of service and support during the entire life cycle of the systems.

Local engineers, trained in paper machine drives applications, provide after sale services in all major pulp and paper countries. A 24/365 Support Line, staffed by experts from your region who speaks your language, works around the clock to support the customer with an extensive inventory of spare parts and technical service. So no matter when you call for assistance, the person who answer will understand your problem.

A Drives Network to Serve You

To better serve the paper industry, ABB has created a worldwide PM Drives Network consisting of a Product Responsible Unit in Helsinki, Finland and local sales, engineering, training and service centers.

The Product Responsible Unit develops generic hardware and software solutions, machine-specific solutions as well as man-machine interfaces, diagnostic tools and communication software for interfacing to other systems. It also performs pre-engineering of projects including the automatic generation of documentation and system configuration.

Every drives project can count on ABB's unmatched experience and expertise to help the customer solve the most complex drive application challenges. ABB

quickly applies the best practices in a knowledge-based, consistent manner around the world. Highly qualified ABB personnel ensure smooth and effective project execution from the design phase to installation and commissioning. The way drive solutions are implemented has a big impact on the commissioning times and moving to full production.

Applications

Leading machine suppliers count on ABB to supply them with the reliable and cost-effective PMC 200™ systems. ABB's experience in pulp and paper drive system solutions and a high level of reuse mean cost-effective, top-quality system deliveries. The PMC 200™ applications include 70-90 % reusable modules and system solutions from applications around the world.

ABB has installed drive systems on all types of papermaking machinery including:

- pulp dryers
- paper machines
- re-reelers
- coaters
- winders
- calenders

The PMC 200™ applications include 70-90 % proven reusable modules and solutions developed for worldwide use.



Personal Safety is the Key Word in Converters

The PMC 200™ drive system is based on ACS 600 MultiDrive converters (Personal safety was the key factor in developing the basic design of the ACS 600). Not only is the PMC 200™ safe, it offers unbeatable benefits for the customer:

- High efficiency and reliability
- High performance and low audible noise with state-of-the-art IGBT semiconductor technology
- Unique Direct Torque control enables precise torque and speed control
- Effort, time and cost savings with the powerful user-friendly DriveWare™ software tools for drives system's programming, commissioning, monitoring and maintenance

Motors and converters are available for almost every voltage and power range application found in pulp and paper mills.

Flexible Operator Interfaces

There are two types of operator interfaces, conventional video controls in the control room and local operator panels.

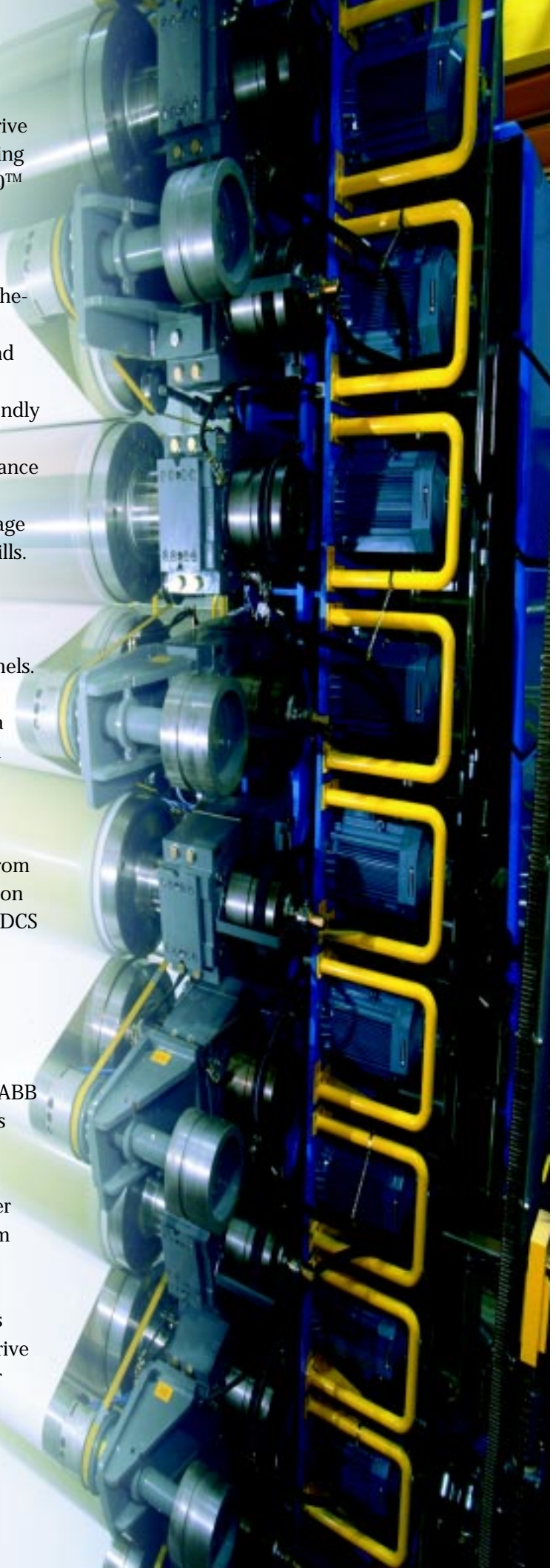
On the shop floor, a PMC 200™ system is operated with a Graphic Operator Panel (GOP) or via a PC. The GOP is a fully graphical display unit that can be mounted on the customer's control desks.

Larger installations are usually operated and supervised from a central control room using ABB's Advant OCS Automation System. The PMC 200™ can also be integrated into other DCS systems.

Standard and Tailor-Made Motors

Reliability and quality are key words that our customers regularly use when ordering ABB motors. Not only does ABB offer standard feature and size motors, but custom motors can be produced for specific applications.

Our sales and engineering specialists know how to gather specifications to assure the customer the total drive system will have exact dimensioning, insulation resistance and bearing currents. ABB has strict cabling and earthing standards that are always followed. Because ABB gathers more accurate and complete information, the very best drive or drive system can be recommended for pulp and paper mills regardless of location, size, or the final product it produces.



Proven and Tested Solutions

ABB's long experience in designing and manufacturing drives gives a reliable foundation for its operations. After all, ABB has been making motors for the pulp and paper industry for over 100 years. Close cooperation with customers, machine and equipment suppliers, consultants, universities and research institutes are the basis for successful products, systems and services to meet the needs of the paper industry.

With the PMC 200™ we offer you:

- Most reliable environment-friendly drive system
- Services through our worldwide PMC 200™ Network
- Savings during the entire life cycle

Join the User Groups!

An important part of ABB's relationships with customers is developed in User Group Meetings. The goal of these groups, which are arranged by the PM Drives organization, is to secure the long-term availability of the drive systems and to provide feedback for future product development.





Argentina Asea Brown Boveri S.A. *Buenos Aires.* **Australia** ABB Industry Pty. *Melbourne.* **Austria** ABB Industrie Gesellschaft *Vienna.* **Belgium** Asea Brown Boveri S.A. *Brussels.* **Brazil** Asea Brown Boveri Ltda. *Sao Paulo.* **Canada** Asea Brown Boveri Inc. *Toronto.* **China** Asea Brown Boveri China Ltd. *Beijing.* **Denmark** ABB Industri A/S *Ballerup.* **Finland** ABB Industry Oy *Helsinki.* **France** ABB Industrie *Décines Charpieu.* **Germany** ABB Industrietechnik A.G. *Mannheim.* **India** Asea Brown Boveri Ltd. *Bangalore.* **Indonesia** PT Asea Brown Boveri Sakti Industri *Jakarta.* **Italy** ABB Industria S.p.A. *Milan.* **Japan** Yamatake Engineering Co. Ltd. *Tokyo.* **Korea** ABB Woojin Co. Ltd. *Seoul.* **Malaysia** ABB Industry & Offshore *Kuala Lumpur.* **Mexico** ABB Equipos Y Sistemas *Estado de Mexico.* **The Netherlands** ABB Industrie B.V. *Rotterdam.* **New Zealand** Asea Brown Boveri *Auckland.* **Norway** ABB Industri AS *Oslo.* **Poland** ABB Industry Ltd. *Warsaw.* **Portugal** Asea Brown Boveri Lda. *Lisbon.* **Russia** ABB Industry Ltd. *Moscow.* **Singapore** ABB Process Automation East Asia Pte. Ltd. **South Africa** ABB Industry (Pty) Ltd. *Johannesburg.* **Spain** ABB Industria S.A. *Madrid.* **Sweden** ABB Industrial Systems AB *Västerås.* **Switzerland** ABB Industry Ltd. *Baden, Dättwil.* **Taiwan** Asea Brown Boveri Ltd *Taipei.* **Thailand** Asea Brown Boveri Ltd. *Bangkok.* **United Kingdom** ABB Industrial Systems Ltd. *Stevenage.* **U.S.A.** ABB Industrial Systems Inc. *Columbus, Ohio.* **Venezuela** Asea Brown Boveri S.A. *Caracas.*