To succeed in competitive international markets, companies must adopt innovative production technologies. Inefficient labor and processes can eliminate your competitive advantage. One solution is to leverage smart motor control devices that provide real-time operating data to anticipate, quickly solve or eliminate production problems.

**PowerFlex drives with TotalFORCE technology** are part of the solution that the pulp and paper industry needs. This smart technology delivers operational intelligence to help avoid unplanned downtime that can cost thousands of dollars per hour.

**Operational intelligence in the pulp and paper industry:**

**PowerFlex**® drives with **TotalFORCE**® technology

The modular PowerFlex drive design uses common spare parts. It has less need for specialized tools and does not require labor from specialized technicians. With this functional design, it can take as little as 15 minutes to replace drive system components.

Better safe than sorry. The realtime predictive analytics features are essential to increase uptime and productivity. The smart system notifies operators of compromised drive or motor health – heat, blown fuses, component runtime hours, etc. Plus, it provides critical equipment replacement alerts to prompt preventative maintenance.

In a common DC bus system, a common bus rectifier can supply power to the DC bus lineup. With an Active Front End (AFE), energy can be fed back to the line, reducing energy consumption and meeting IEEE 519 specifications. When regeneration is not required, a cost-effective solution is the Non-Regenerative Supply (NRS).
New paper mill delivers twice the output

A U.S. company with operations in 15 states manufactures containerboard and converts it into corrugated packaging, point-of-purchase displays and folding cartons. When they designed a new paper mill in Wisconsin, they chose Rockwell Automation as the automation partner.

To control fans and pumps, they installed PowerFlex 755 VFDs. For power and control of the containerboard machinery and winder, they chose a PowerFlex 755T drive system. This system includes PowerFlex 755TR drives with active front end for regeneration and PremierSystems™ drive supervisory system with Enhanced Trend Plus. Combining this new drive system with a larger production board machine, the mill delivers more than twice the output of the old plant.

Main applications in the paper industry

- **PAPER MACHINE**
  The modular design of PowerFlex drives significantly minimizes spare parts for large, coordinated drive systems. Easy part changeout design and predictive maintenance minimize unplanned downtime.

- **WINDER**
  Active Front Ends (AFE) provide sustainability solutions for energy usage with regeneration capability.

- **BALANCE OF PLANT**
  VFDs are available in low or medium voltage ratings for low-power applications like chest pumps or high-power needs like boiler induced draft or forced draft fans. Ethernet/IP communication supports connected plant initiatives.

Turn manufacturing into a strategic advantage

Leverage PowerFlex drives to help reach your energy savings and sustainability goals. These solutions are designed to maximize motor efficiency, reduce energy use and improve application performance.

For information about PowerFlex 755TS, 755TL, 755TR, 755TM and 6000T drives with TotalFORCE technology, speak with your local Rockwell Automation sales representative or click to connect or learn more.

rockwellautomation.com

expanding human possibility

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