

## Pratt Industries chooses ABB cpmPlus to integrate paper mills and improve productivity



Pratt Industries Inc., Conyers (GA) mill

**Client:** Pratt Industries (U.S.A.), Inc.

**Location:** Shreveport (LA), Conyers (GA) and Staten Island (NY), the United States

**Scope of Delivery:** Collaborative Production Management (CPM) system

Pratt Industries is a leading worldwide producer of recycled paper and packaging materials. As part of its continuous drive to further improve productivity and harmonize its global operations, the company launched a project in 2008 to upgrade its three mills in the US and implement a comprehensive Collaborative Production Management (CPM) system. For this purpose Pratt Industries turned to ABB, which had previously installed similar systems in six paper mills in Australia belonging to the same group.

### Complete package

ABB's cpmPlus for Pulp and Paper consists of integrated software modules with comprehensive functionality. Although all the modules can be used on a stand-alone basis, the biggest benefits are achieved when they are implemented together to form an extensive CPM system encompassing order data, production information, process variables, quality data, runtime parameters, etc. This provides a reliable basis for the calculation of true performance metrics and a solid platform for efficient use of ABB's sophisticated algorithms for production scheduling, trim optimization, load planning, quality based re-trimming, and optimization of energy use and supply.

The cpmPlus system supplied to Pratt Industries consists of production tracking and quality management functions that are

used at all Pratt Industries' paper mills in the US: Shreveport, LA, Conyers, GA and Staten Island, NY. It also includes box plant functionality for ten box plants in the US, integration with Pratt's global business system, centralized sales order entry, invoicing and distribution as well as multi-mill planning functions, which are used in Pratt Industries' head office in Conyers, GA.

### Ahead of schedule

The scale of the project made it quite challenging, and the implementation schedule was set at 18 months. As the project progressed the implementation team - which included people from both Pratt Industries and ABB - was able to roll-out the system efficiently and achieve fast commissioning. In the end the entire project was completed within only 12 months - six months ahead of the original schedule.

Installation of the CPM system started with the greenfield mill in Shreveport to ensure that the new mill could follow Pratt Industries' best practices right from the start. The installation at Shreveport was very successful, giving the project team the confidence to roll-out the system at the other two mills 'on the fly' and within a tightened schedule.

"ABB has a strong working relationship with Pratt Industries. This made it easy to get the buy-in from the end users. The new system is intuitive and easy to use and the roll-outs went very smoothly," says Matti Värtinen, ABB's Project Manager.



Pratt Industries Inc., Staten Island (NY) mill



Pratt Industries Inc., Shreveport (LA) mill

### Real benefits with true partnership

The new CPM system provides Pratt Industries with better production and quality data visibility, centrally managed multi-mill planning and optimization, real-time integration of the box plants and paper mills, enhanced shop floor interfaces and modern information technology system architecture.

“Working together in a true partnership has enabled this project to be so successful. The combination of the full scope of supply and the flexibility to match the way Pratt wants to run their business, has greatly accelerated the sustainable return that Pratt Industries has achieved,” states Dennis Fleming, Senior IT Director from Pratt Industries.

### Strategic backbone

The overall target for the new CPM system is to provide Pratt Industries with a strategic backbone, which will globally enable common best practices in operations as well as uniform metrics to measure and report results across the continents.



Valparaiso Boxplant in Indiana is the largest plant in the system and one of the largest in the US.

Mills worldwide can cost-efficiently share, not only ideas and initiatives, but also know-how, resources and commonly available training and support over different time zones.

The mills also realize savings by sharing ideas for future enhancements, as well as the related costs. Whatever is designed and developed at one of Pratt Industries' locations is available right away to all the others through the ABB CPM Template and efficient roll-out tools. The same modular Template structure also enables the mills to benefit from version upgrades provided by ABB to keep the systems up-to-date.

### Pratt Industries (U.S.A.), Inc.

Pratt Industries is the sixth largest paper and packaging company in the US, with more than 3500 employees. It is noted for its commitment to the environment and sustainability.

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