



Photo courtesy of Voith.

## The means to a better wet end.

### **Increase your productivity and reduce your environmental footprint with advanced Wet End Management from Buckman.**

The wet end is a critical part of your production, the place where retention of profit is just as important as the retention of fiber and fines. That's why Buckman has developed a complete Wet End Management program for the production of:

- Tissue
- Packaging
- Printing & Writing
- Gypsum
- Newsprint & Specialties

We address every aspect of the wet end process, looking for ways to help you save money, become more sustainable, and produce a better, more profitable product. With some of the most innovative technologies on the market, we'll bring creative ideas, advanced chemistries, and technical skill to your wet end operation. You'll find that when it comes to the wet end, there's no end to our commitment.

# Discover new opportunities for growth and profitability in your wet end operation.

## A better planet

These days, it's not only about getting a solid return on investment. It's about return on environment, too. Buckman can give you both. Our wet end management expertise can help you increase raw material yield, reduce effluent loading, save energy and water, increase efficiency and save money.

## A better paper

Buckman provides comprehensive retention, drainage and formation support that can help your mill:

- Boost retention of fibers and fines
- Neutralize anionic trash
- Fix wood pitch and stickies fibers
- Improve the performance of additives
- Improve sheet formation
- Optimize sludge dewatering systems

With Buckman's program, you'll see fewer breaks. And we can help treat the broke you do have more efficiently.

## A better bottom line

We'll help you significantly reduce steam and energy usage and the related costs. We'll improve runnability, so there will be

more production and less downtime. We'll provide off-machine clarification support to optimize your white water system and increase saveall efficiency. And we will track your return on investment year after year.

## Advanced chemistries and equipment

From a renewable organic-based coagulant to dry, high-solids resins, we're developing the chemistries that power success. And since accurate application and dosage is so important to success, we offer the specialized equipment necessary to deliver the goods:

- Cutting edge dry polymer make-down units for uniform wet-out of each polymer particle and rapid dispersion
- Metering pumps for readily soluble polymers with in-line dilution
- Specialized dosage equipment for coiled polymer hydration ensuring even distribution through the thin stock

## Learn more

Ready to give your wet end operation a whole new beginning? Turn to complete Wet End Management from Buckman. For more information, contact your Buckman representative, or visit [buckman.com](http://buckman.com).

### CASE STUDIES

**Challenge:** A large recycled packaging mill asked Buckman to redesign its entire wet end management program.

**Solution:** Buckman upgraded their retention aid system, replaced petroleum-derived emulsion with an organic coagulant, replaced low solids dry strength resin with a high-solids, high-performance resin, and more.

#### Return on Investment:

- Production rate increased 10%
- Sheet strength increased 8–10%, reducing rejects and complaints
- Improved first pass and ash retention increased fiber yield, reduced sludge press polymer usage and reduced size usage

#### Return on Environment:

- No increase in steam and electricity usage as production increased
- Delivery of chemistry to mill reduced by one-third, reducing CO<sub>2</sub> emissions by 50 tons per year
- Volatile Organic Compounds emissions reduced by more than 40 tons per year

**Total Savings:** More than \$1 million annually

**Challenge:** A mill was experiencing frequent breaks and machine downtime.

**Solution:** Buckman replaced the mill's retention and drainage program with a more advanced program including a renewable organic-based coagulant, an engineered micro-flocculant and a high molecular weight anionic emulsion polymer.

#### Return on Investment:

- 20 fewer breaks in a 30-day period
- 16 minutes of break time saved per day
- Better quality
- Increased machine uptime

#### Return on Environment:

- Replaced oil-based technologies with renewable, organic and less wasteful alternatives

**Total Savings:** \$1.4 million annually

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