Think of sustainable premium tissue, think ATMOS!

In the last couple of years, sustainable paper production has become a vital topic for many tissue producers. Extremely rising resource costs and great shifts in demand have placed the tissue industry in a significant economic and ecological transformation. The greatest challenges for the paper industry are reducing energy and water consumption as well as using raw materials much more efficiently.

ATMOS technology

Premier tissue with high absorbency and bulk
Significant energy and fiber savings with ATMOS

The combination of saving energy and fibers, running the machines with 100% recycled fiber, as well as easily switching between conventional quality and ultra-premium make ATMOS an environmentally friendly technology. It is thus the most feasible and sustainable alternative for tissue producers to operate at an optimum quality-cost ratio while meeting regional market demands.

Energy

One of the tissue producers’ major concerns is the energy cost increase in recent years, which has resulted in higher production costs and, thus, lower profits. Realizing the significant impact that energy has on overall production costs, Voith developed the ATMOS technology. This technology allows production from standard to premium tissue with the lowest energy consumption per ton and finished product when compared to other technologies available in the market.

Fiber savings

It is a well-known fact that fiber is the single most costly contributor to a tissue mill’s production expense. Combined with the special focus on saving natural resources, Voith developed the ATMOS technology to produce standard and premium tissue. ATMOS requires up to 30% less fiber when compared to other technologies available in the market, and at the same time, enables the production of premium tissue using 100% recycled or virgin fibers.

Bulk and caliper

Making high quality tissue means enclosing as much air with as little fiber as possible. Bulk and caliper are fundamental quality features. They result in absorbency for towel or structural and surface softness for toilet paper, the main tissue products in terms of worldwide consumption. These important tissue quality features are divided into three categories according to the global requirements of different markets: standard, intermediate and premium.

Satisfied customers trust in ATMOS

The ATMOS technology is meeting the requirements of CMPC and Cascades. Their satisfaction has convinced other customers to trust in this advanced technology that allows premium tissue production at lower natural resource consumption while using recycled fibers. As a result, the demand for ATMOS installations has risen worldwide.

CMPC, Talagante TM 2

In 2006, Voith and CMPC commissioned the innovative ATMOS technology, while maintaining the capability to run the machine also in a conventional Crescent Former mode. According to CMPC’s production schedule, 19 g/m² premium consumer towel and 30 g/m² away-from-home towel, both based on high amount of recycled fiber, have been produced since startup.

Cascades, Candiac TM 2

Since 2010, Cascades Tissue Group has successfully run the ATMOS technology on the TM 2, located in Candiac, Quebec, Canada. It is the first machine with ATMOS technology in North America. The Candiac TM 2 is producing premium consumer paper towel, away-from-home hand towel, and premium consumer bathroom tissue using up to 100% recycled fibers. Cascades is thus the first to produce premium tissue with a high amount of recycled fibers in North America.