



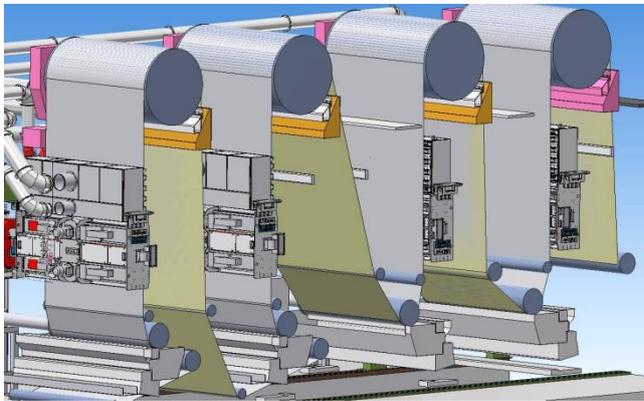
 **BEKAERT**

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ENERGY SAVINGS and MACHINE SPEED INCREASE in CARTIERA DI MOMO (Italy): goals achieved with UniDryer® V3 and Air Bars Systems after coating stations

Cartiera di Momo produces recycled coated paperboard. Market demand for increased quantity and higher quality drove Cartiera di Momo to decide in late 2015 to replace the existing 30 years old Bekaert Solaronics infrared systems with the goals of increasing the machine speed, reducing the gas consumption as well as improving the quality.

Bekaert Solaronics supplied four gas infrared systems UniDryer® V3 followed by sets of air bars after each of the four coating stations. The Energy Recovery Concept was again applied to this project with the air bars sets directly fed by the exhaust hot air coming from the UniDryer® V3 systems. This concept allows even more energy savings! The start-up took place in August 2016.



New machine configuration



UniDryer® V3 made of two rows of Gem12E emitters followed by a set of 4 air bars

Huge energy savings of over 30%

All the goals of the project have been met. Implementation of air bars with ERS has led to a drastic decrease of gas consumption. *“Almost immediately natural gas consumption dropped drastically”* says M. Ugo Dell’Aria Burani, Managing Director in Cartiera di Momo. *“Only ten months after the installation, savings of over 30% were measured with natural gas consumption of approximately 9.9 standard cubic meters per ton of production vs the previous 13 standard cubic meters per ton.”*

UniDryer® V3 allows machine speed to increase and brings higher quality

The project’s goal was to increase the machine speed while keeping or improving the quality requested by the end customers. Thanks to its power and flexibility, the UniDryer® V3 achieves optimal quality control: the infrared parts of the systems allow reaching the gel point in a fast time lapse and the convective parts of the systems permit reaching the average moisture needed for the application.



Cartiera di Momo quality engineers measured and compared the offset printing before and after the machine modification. According to M. Ugo Dell’Aria Burani, the difference is noticeable: *“the optimal drying of all coating layers gave considerably improved print quality”*.

The target of the machine speed increase has also been achieved: *“the new dryer systems allowed us to attain faster machine speed”* says M. Ugo Dell’Aria Burani.

Cartiera di Momo and Bekaert Solaronics, a true and long-term partnership

The over 30-year partnership with Bekaert Solaronics started in 1985: Cartiera di Momo was the first Bekaert Solaronics customer in Italy to install infrared drying systems after each of the three coating stations.

In 1987, a new Bekaert Solaronics system was added to dry the back side treatment. This last system was upgraded in 2012 with Gem9 emitters in order to enhance drying capacity.

About Cartiera di Momo S.p.A

Established in 1963, Cartiera di Momo S.p.A. specializes in the production of coated multilayer cardboard packaging made with recycled fibers. The paper mill in Momo (near Novara) occupies an area of approximately 46,000 sqm and is equipped with a 262 cm wide continuous machine. Annual production capacity is 80,000 tons, from 270 gr/ sqm up to 600 gr/ sqm.

About Bekaert Solaronics

Founded in 1967, Bekaert Solaronics supplies customized drying and heating systems based on gas and electrical infrared technology to the paper and board industry. Today, more than 1 000 systems have been installed worldwide. The company also provides maintenance services and is available to assist on upgrades or improved energy efficiency of existing systems. More information on <http://drying.bekaert.com>.

If you want to know more on the advantages of infrared drying systems for the paper and board industry, contact Mr Cédric Dehouck, Market Manager Bekaert Solaronics: cedric.dehouck@bekaert.com, Telephone: +33 3 20 10 59 49.