

Benefit from our services to the paper and board industry

You can trust our know-how. More than 1,000 systems have been installed worldwide of which 60% come from repeat orders with existing customers.

We offer to your business a complete product range for non contact drying including gas, electrical infrared and air flotation solutions.

Our application engineering services are at your disposal to define the best solution in terms of drying quality, efficiency and investment costs.

We have local service teams available in Brazil, China, Finland, France, Germany, Indonesia, Italy, Sweden and USA.

www.bekaert.com

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GemDryer®

Gas infrared drying and profiling after size press and coating stations



BCT 415275 C This paper has been dried with a Bekaert non contact drying system

Minimize your operating costs while improving your paper quality

Bekaert GemDryer® for non contact drying and profiling after size press and coating stations

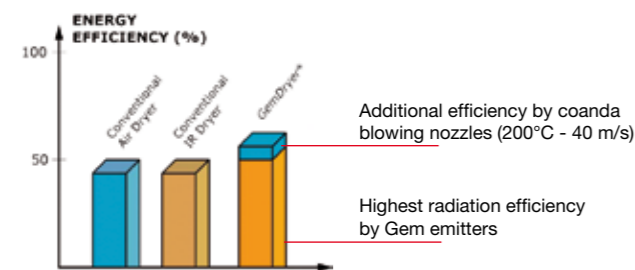
Minimize your operating costs

Benefit from the highest energy efficiency and longest emitter lifetime provided by Bekaert GemDryer®.

The high efficiency, high power Gem emitters transfer the infrared energy directly into the web by infrared radiation. Coanda blowing nozzles for each set of 2-row burner optimise the energy transfer by convection.

Bekaert Gem emitter is a high density ceramic emitter especially developed for the paper and board industry. Thanks to its patented design, Gem can operate up to 1,150°C, which gives the maximum infrared output at an input up to 10 kW.

Gem has the longest proven lifetime on the market, which is at nominal power up to seven years. What makes Gem unique is the constant radiant efficiency during this period. This ensures you the highest machine uptime and lowest maintenance costs.

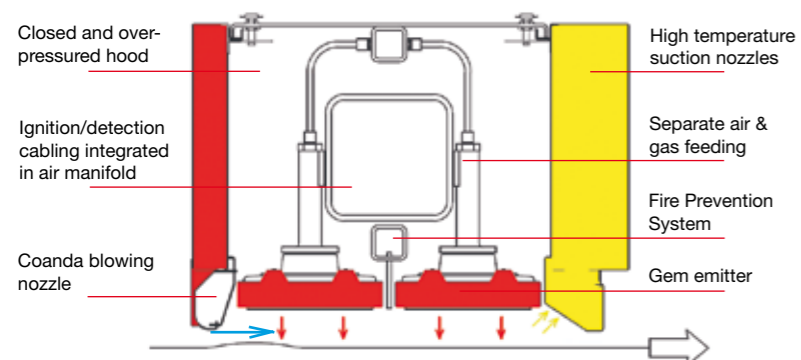


Improve your paper quality

Bekaert GemDryer® brings the highest quality to your paper thanks to its unique features.

The use of high power Bekaert Gem emitters allows to reach the gel point as fast as possible. Therefore binder migration and mottling are reduced for the best printing quality.

You can also optimize your cross direction moisture profile by integrating a profiling option into your Bekaert GemDryer® system.



M-real Kajo - Finland
Double Coated Fine Paper
Bekaert GemDryer® Gem 9
1,200 m/min 8.2 MW 5.8 m



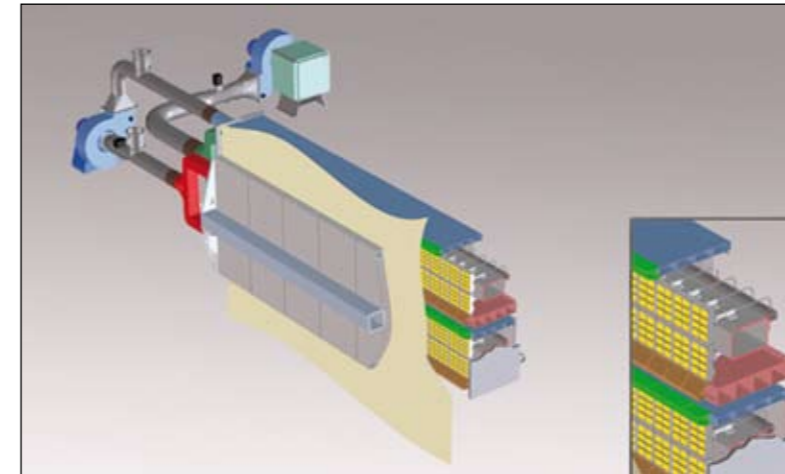
APP Gold East Paper - China
Art Paper
Bekaert GemDryer® Gem 10
1,800 m/min 16.5 MW 9.8 m



UPM Blandin - USA
L.W.C. Paper
Bekaert GemDryer® Gem 10
1,700 m/min 5.6 MW 3.8 m



Papyrus - Brazil
Coated Packaging Board
Bekaert GemDryer® Gem 9
355 m/min 700 kW 2.6 m



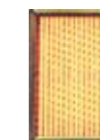
Hood dimensions	620 mm x 480 mm height (2-row burner) 884 mm MD x 480 mm height (3-row burner)
Emitter dimensions	143 mm CD x 200 mm MD
Emitter max power	6.5 to 10 kW
Max power density (f/f)	428 kW/m ²
Max evaporation rate (f/f)	361 kg/h/m ²
System efficiency	56%



Gem7



Gem9



Gem10

Bekaert GemDryer® options to better satisfy your current and future needs!

The Gem family today includes Gem 7, 9 and 10. This offers a maximum flexibility for future power upgrading.

Cross direction moisture profiling.

Automatic web width selection.

The Fire Prevention System is a patented steam shower technology, for optimal risk-free operation under any working condition.

Temperature line scanner for the best paper quality. This scanner offers you the highest resolution and sampling frequency for temperature measurement. It is located outside the zone of high moisture and temperature to guarantee a continuous trouble-free operation.

Minimize your operating costs while improving your paper quality

Bekaert GemDryer® is a gas infrared non-contact drying solution. This system consists of Gem infrared emitters and coanda blowing nozzles. This unique combination ensures a high system efficiency of 56%.

Knowing that Gem emitters offer the longest lifetime at the highest power, you can be sure that your operating costs are minimized.

Your paper quality is improved thanks to the GemDryer® high drying rate, which gives the best printing quality.

Additional benefits:

You can easily integrate Bekaert GemDryer® into your paper machine thanks to the extreme compactness of the system. For same drying capacity, Bekaert GemDryer® is at least 30% more compact than any conventional system.

Your machine runnability is optimized thanks to the use of coanda blowing nozzle.

Your machine uptime is optimized thanks to our standard double ignition and detection system.