

## Infrared drying solutions for metal strip coating

### Bekaert at your service

Would you like to have more information about infrared solutions for metal strip coating or to discuss a specific project with one of our local sales representatives?

Contact us today!

Our skilled and responsive sales and service professionals will quickly serve you around the world.

[infrared-drying.bekaert.com](http://infrared-drying.bekaert.com)  
[www.bekaert.com](http://www.bekaert.com)

Bekaert ([www.bekaert.com](http://www.bekaert.com)) is a world market and technology leader in steel wire transformation and coatings.

Bekaert (Euronext Brussels: BEKB) was established in 1880 and is a global company headquartered in Belgium, employing more than 25 000 people worldwide. Serving customers in 120 countries, Bekaert pursues sustainable profitable growth in all its activities.

#### Modifications

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This paper has been dried with a Bekaert non-contact drying system.

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Optimize your quality with unique compact technology

## Why choose Bekaert

### The expert in infrared and air drying equipment

Thanks to our wide range of standard and customized infrared and air solutions, Bekaert can offer products of the highest quality and performance.

### Global presence

Bekaert is active in more than 120 countries and employs over 25000 people worldwide. Our production platform for infrared and air drying equipment is headquartered in France and supported by offices in the USA, Indonesia, China and Brazil, as well as a local agents network.

### Customer-driven innovation

If there's a way for us to bring you to the next level, we'll find it. Your applications fuel our drive for innovation. We have an in-house engineering department which develops our own machinery, testing and process equipment and we will work to learn your requirements inside and out.

## Bekaert customized solutions for coating lines

For over 30 years, Bekaert has supplied customized drying systems based on gas and electrical infrared technology to a wide range of industries including metal processing.

We can satisfy your process requirements with solutions ranging from individual units to a complete turnkey package of fully-engineered drying solutions with cooling, RTO and heat-recovery.

Based on your process, our application and engineering departments can propose an optimized solution for the following project types:

- New production line
- Upgrade of existing lines with new coating section
- Revamping for capacity increase

Our drying systems can help you reduce operating costs, increase flexibility and improve quality. Some applications include:

### Insulating coatings or varnishes

End-users of electrical steel (GO/NGO) are increasingly demanding higher quality and requiring companies to implement specific drying strategies to improve the characteristics of their coated steel.

To reach PMT levels of up to 350°C, Bekaert will design the ideal gas or electrical infrared solution based on your coating type.

### Pretreatment coatings

Chemcoatings, passivation and anti-fingerprint layers are commonly applied either at the final sections of galvanizing lines or in the first stage of aluminum or steel pre-painting lines.

The majority of these coatings is water-based with relatively low PMT and can be efficiently dried with compact Bekaert gas or electrical infrared systems.

### Primer and top coatings

Due to operating parameters such as speed, quality and safety, solvent removal and curing of polyesters, polyurethanes, PVDF have become critical bottlenecks for conventional drying systems.

A Bekaert hybrid infrared-air furnace, coupled with an RTO and a heat exchanger, is the ultimate solution for such applications - compact, flexible and highly efficient.

Bekaert systems can be integrated either vertically or horizontally to cure primer and top coats up to a PMT of 270°C.



Confidential - China,  
Insulating coating/varnish  
Bekaert GemDryer® -  
Horizontal design  
130 m/min - 4.000 kW

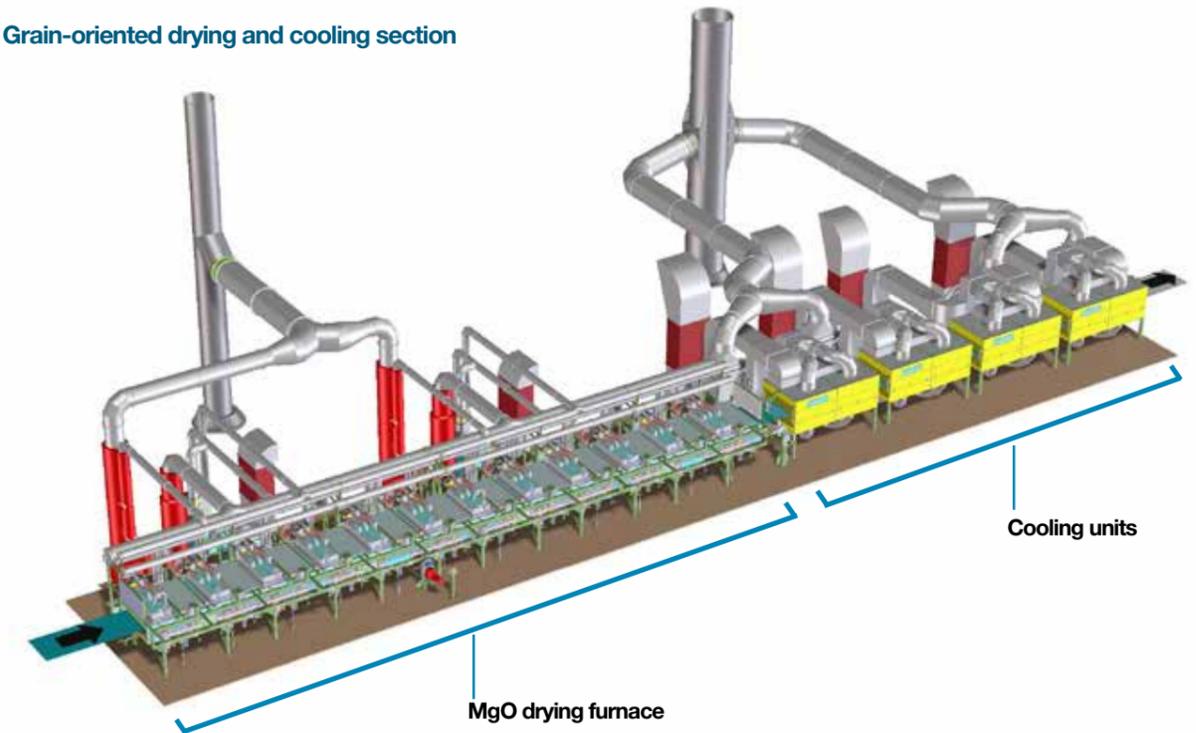


Confidential - Latin America,  
Chemical coating  
Bekaert GemDryer® -  
Vertical design  
120 m/min - 800 kW



Universal Metal - Turkey,  
Solvent-based paints  
Bekaert WebMate® -  
Vertical design  
100 m/min - 2.100 kW

### Grain-oriented drying and cooling section



### Complete solution for paint curing

