

Benefit from our services to the coating and converting industries

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 you a complete product range for non-contact drying including gas and electrical infrared.

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 team available in Brazil, China, Finland, France, Germany, Indonesia, Italy, Sweden and USA.

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Infrared solutions for converting processes



BCT 415218. This paper has been dried with a Bekaert non contact drying system

Minimize your energy costs and Maximize your production capacity

Bekaert customised solutions for converting processes

For more than 40 years, Bekaert have supplied customized drying and heating systems based on gas and electrical infrared technology to a wide range of industries including converting applications.

Bekaert can satisfy your process requirements from individual units up to fully engineered drying and heating solutions including process automation.

Based on your process, Bekaert application and engineering departments will propose optimized solution for your project:

- New production line,
- Upgrade of an existing line with a new coating/printing/gluing station,
- Revamping for capacity increase, reduction of operating costs, more flexibility and quality improvements.

Some representative examples...

Drying of flexo print on corrugated board

High graphic corrugated board requires quick and efficient dryers of the flexo print ink in order to satisfy increasing print quality demands.

Bekaert supply infrared dryers with integrated air knives for interstation and final drying. A range of dryer designs are available including powerful compact solutions for very limited space.

Drying of flexo print on tissue napkins

High quality and productivity are maximised in flexo printing on tissue napkins. Up to 50 % increase production can be achieved. Bekaert infrared solutions are well recognised for their reliability and long life.

Drying of electrotechnical paper

Insulation paper for sub marine high voltage cables and for high voltage transformer bushings must be dried to very low moisture contents in order to fulfill very demanding electrical properties.

For sub marine cables, the moisture level shall be lower than 1% and for bushings lower than 0.4%.

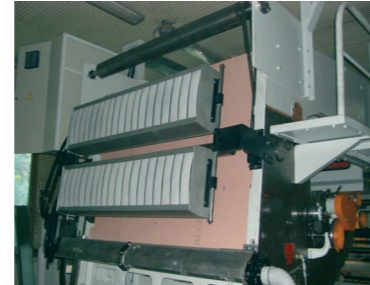
Bekaert support customers with qualified simulations for efficient infrared drying solutions.

Envelope glue drying

By replacing hot air blowers with Bekaert MonoCassette for envelopes glue drying, the energy saved gives a very short payback period for investment. The maintenance costs are also lower and due to less heat leakage, the working environment is improved.



Hantermann - Germany
Ink drying on napkins in a flexo printing machine



Dalaker Kunststoffmaschinen - Czech Republic
Glue drying on plastic foil



Auerswalde - Germany
Intermediate and final drying in a flexo printing machine



SSAB - Sweden
Glue preheating

Lamination processes

In many lamination processes, a pre-glued material is used. The dry glue is reactivated by heating up making it sticky. Bekaert have made installations for pre-glued kraft paper lamination on mineral insulation boards and for lamination of vinyl foil on pre-glued metal sheets.

Drying of glue in lamination processes is also applied for paper and board laminates.

... and many more

Over the years, Bekaert have built up experience also in many other application fields like:

- Polymer processing (crosslinking of polyethylene tubes, curing of glass reinforced tubes, gelatinizing and embossing of PVC foils),
- Paint drying on metal, wood and plastics,
- Product heating (pre-heating before lamination, hardening of rubber profiles, curing of casting moulds, thermo fixation of textile wires).

References

Bekaert have a long track record of successful installations in industrial heating and drying processes. Some examples are:

- Flexoprint drying on high graphic corrugated board
 - More than 300 systems installed
 - Installations for top printing and for bottom printing
- Glue drying on envelope flaps
 - More than 1,250 dryers installed
 - Installations on a worldwide basis
- Flexo print drying on tissue napkins
 - More than 30 machines equipped with Bekaert drying units
- Drying of electrotechnical paper
 - Installations with up to 13 m drying width
- Polymer processing
 - Crosslinking of polyethylene tubes from 20 to 600 mm diameter
 - Curing of glass fibers tubes up to 4 meters diameter

Product solutions for your heating and drying project: MonoCassette, MiniFlex, MiniFlex2, WebFlex, MasterCassette, Webmate.

Minimize your energy costs and Maximize your production capacity

Bekaert infrared heating and drying systems are based on unique designs of lamp reflectors with electrical power control systems, which ensure high energy efficiency to your installation. For surface drying, integrated air knives further increase the drying capacity and energy efficiency. Combined with superior lifetime of the infrared lamps, operating costs are minimized.

Thanks to high flexibility with very quick and accurate power control a high and even product quality is achieved.

Make your choice of Bekaert electrical infrared solutions for converting processes

With high power density and accurate power control capabilities, Bekaert offer the flexibility to control the installed power according to your needs.

Heating and drying solutions:

- MonoCassette, one or more in combination, gives you flexible solutions for the lower power needs.
- MiniFlex, MiniFlex2 and WebFlex are designed for installations where the available space is limited.
- MasterCassette is the intermediate power density solution.
- Webmate is the choice for really high power density requirements