

# Curing, Conveying and Controls.

**BGK**



**BGK Finishing  
Solutions**





# BGK Conveyors, Controls and Curing Ovens Are All About Automating Products Through The Finishing Process – For Peak, Profitable Results.

Most finishing engineers know about BGK's wide range of curing equipment and technologies. But BGK also makes an equally extensive variety of conveyor and control systems to assure effective synergy when a part moves through the finishing process.

No matter what level of care goes into the coating application, the quality of the outcome is dependent on the bonding of the coating material to the part.

coating material and finishing process and BGK is your single source provider, used to dry or cure a full range of coating materials including liquid, powder, Teflon™ wax, UV and adhesives, just to name a few.

## BGK Conveyors come in two parts-specific categories

**Parts weight.**

**Parts size.**

**Desired production speed.**

**Coating material to be used.**

These are key considerations when specifying and coupling the right combination of BGK conveyor and curing oven equipment. With an array of choices including chain-on-edge or flatline conveyors, BGK is capable of accommodating an extensive range of equipment needs.

**Spindle Type...**BGK spindle type conveyor systems are all customizable to meet specific requirements. Available engineered options provide infinite capabilities.

**Flatline Type...**BGK flatline conveyor systems are designed and engineered to meet very specific parts finishing requirements, such as glass and automotive parts.

## BGK Control Packages help manage the process profitably

From simple to complex, whatever finishing system is designed, BGK is at the heart of it all, with the right control system. BGK Control Systems have been proven over decades of operational use, innovations and enhancements.

A few of the many parameters BGK controls can provide:

- Automatic temperature regulation and control
- Multiple recipe parameters and storage
- Manual or automatic mode capabilities
- System fault detection and history storage
- Diagnostic troubleshooting menu
- Part or oven temperature trending







### Flat Glass Oven And Drying Systems

Meets a wide variety of requirements for the glass market.

- Focused on the application of high intensity infrared technology.
- Compact design utilizing T3 short-wave infrared emitters
- Provides unmatched drying capabilities and energy efficiency

### Glass Preheat Ovens

Available in a full range of efficient wave length control for rapid, uniform heat up and accurate input temperature control.

- In glass applications, bond strength is dramatically improved at the gasket and glass interface.
- Close loop temperature control delivers glass to the injection mold process at the desired temperature.

### Infrared Booster Ovens

These versatile ovens are modular in design, have been engineered for use with all coating types and can be configured to meet all parts sizes and shapes.

- Particularly effective where increased line speeds and multiple control zones are required to achieve productivity objectives.
- Features energy efficient, instant on/off emitter control performance.



## Gas Catalytic Infrared Oven

For those seeking an alternative to electric infrared, BGK offers a line of natural gas or propane fired catalytic infrared heaters. The emitters heat through a safe technology producing uniform low intensity heat. The heat, in the form of medium to long wavelength energy, is evenly absorbed by a wide range of organic materials, providing a versatile curing solution for low to high density applications.

- BGK Gas Catalytic Infrared provides process times typically four times faster than convection oven technology.
- Custom engineered control packages offer the ability to precisely control every facet of your production.
- Small footprint makes it ideal for lean manufacturing settings.
- Highly controllable and capable of attaining surface temperatures in the range of 700°F to 1,000°F to meet demanding finishing requirements.
- Can handle a large variety of finishing applications, from complex shaped parts to demanding substrates and difficult coatings.





# BGK Flatline Conveyors Prove Essential In High Output Operations



## Brake Pad System Conveyors

BGK can provide systems of up to 14 lanes wide, handling production rates of 10 to 100 pads a minute. Helps provide a tough finish meeting film build and brake fluid resistance testing. Pads can be cured in less than two minutes with precise, zoned temperature control.

## Media Cure System Conveyors

Ideal match to automated count-cut equipment or cartridge assembly equipment in a single or dual lane configuration.

Eliminates the need to "scorch the knuckles" and provides even distribution around the center tube and a high quality filter cartridge assembly.



## Glass System Conveyors

BGK Glass System Flatline Conveyor is the ideal choice for water or oil-based ceramic frit, solvent-based mirror backs and for organic and non-organic UV inhibitors. Systems respond immediately to empty or full load conditions, saving energy while maintaining product temperatures.

BGK stands alone in its capability to provide flexibility in developing fully compatible conveyor systems to move products along, and through, the highest quality finishing operations.



