



Advanced Surface Technologies

Invisible Shield® Microburst™ Vertical Two-Sided Glass Coating Machine.



Coating Equipment Benefits:

- Spacing Saving and fully Automated Coating System
- Durable UV & IR Bonding Technology
- Manufactured to the Highest Standards and Specifications
- Efficient Vertical Design – Compact Adaptable Footprint
- Treats one or both side simultaneously
- Safe & Fully Vented System
- Touch Screen Controls with Adjustable Feed Rate
- Glass is completely treated, exits machine clean and fully protected
- Efficiency – Coats up to 70 sq. ft. Per Minute
- Height Capacity – 84 inches of glass treated in one minute
- All Electronics are Explosion Proof with Built-In Safety System



Revolutionary Machine for the Glass Industry

The New Microburst Vertical Glass Coating Machine took some time to develop, however it is the best performing glass coating machine of its kind in the industry and is unmatched from an operational, performance and safety standpoint.

The compact, high output, two-sided vertical coating machine is extremely efficient. It utilizes ultraviolet (UV) and infrared (IR) curing to instantly bond Unelko's top rated Invisible Shield PRO 15 coating to both sides of almost any size commercial glass. It can treat 70 sq. ft. of glass per minute and 4,200 sq. ft. per hour with a high performance, hydrophobic/oleophobic coating on glass that then leaves the machine fully cured/bonded, protected and 99% clean.

Unlike other glass coating machines that require extensive handling, expensive product vials, long curing times, offer inferior performance and/or require excessive cleaning, the Invisible Shield Glass Coating Machine is fully automated and is time, energy, product, and performance efficient.

Our durable protective coating increases scratch resistance up to 93%.

SPECIFICATIONS

Machine Footprint:

Height: 144"
Length: 62"
Depth: 48"

Machine + Loading Wings:

Height: 96"
Length: 72"
Depth: 48"

Electrical Requirements:

Power: 25,000 Watts
Load Amps: 3 Phase 240V/100A
Circuit Breaker: 480V/100A breaker,
230V/150A breaker

DETAILS

Protects All Glass

New Invisible Shield® Microburst™ (Two-Sided) Vertical Glass Coating Machine was designed for large and small glass fabricators and manufacturers who rely on high output, and efficient automated systems to produce and protect volume glass including shower glass, windows, doors, IG units, partitions, railings, sand blasted & acid etched glass, windshields and more.

State of the Art Protective Coating Equipment

Designed by Unelko Corporation and Perfect Score Technologies, the Microburst machine is the best performing glass coating machine of its kind in the industry and is **unmatched from an operational, performance and safety standpoint.**

Durable Protection with Unique UV and IR

The Microburst utilizes ultraviolet (UV) and infrared (IR) curing to instantly bond Unelko's top rated Invisible Shield PRO 15 protective coating to both sides of almost any size glass. The protective coating performance is outstanding, and with a unique air blade feature, glass exits the machine almost 99% clean—and ready to install.

Outperforms the Competition with Better Efficiency

Unlike other glass coating machines that require extensive handling, expensive product vials (and per unit cost), long curing times, offer inferior performance and/or require excessive cleaning, the Microburst Machine is fully automated and is time, energy, product, and performance efficient. Glass fabricators can treat 1 unit to 1 Million units at the exact same per unit cost. How economical is that!

The compact, high output, two-sided automatic coating machine utilizes innovative ultraviolet (UV) and infrared (IR) curing to instantly form a molecular bond and protective coating to all glass. While the coating instantly bonds without UV, the technology further enhances and strengthens the glass. It can treat 70 sq. ft. of glass per minute and 4,200 sq. ft. per hour with a high performance, hydrophobic/oleophobic coating on glass that then leaves the machine fully cured/bonded & protected and 99% clean. It has a continuous feed, eliminating time consuming loading/unloading and re-racking. It offers the highest industry glass protection production efficiency / capacity – and treats over 8 million square feet of glass annually. The Microburst delivery system automatically senses and treats only the glass in the cabin, eliminating any waste.

Unmatched Safety Features

The Microburst coating machine is fully vented, emits zero fumes, and is extremely safe. It is made of 100% corrosion free aluminum, has NEMA 4 rated Polymer Coated air/pressure sensitive enclosures and electrical boxes.

Huge Cost Savings

One can more than double the sq. footage over other protective coating machinery with less handling. (Time=Money!) The Microburst coating machine and Invisible Shield PRO 15 Glass Coating offers the most effective, low-cost solution to the ongoing problem of glass degradation, for improved cleaning and long term preservation of residential and commercial glass. Save on repairs and replacements by durably protecting glass for pennies per sq. foot. The Invisible Shield PRO 15 coating improves scratch resistance up to 93% and reduces cleaning time up to 75% annually.

Unique Customization Options

It has a current height capacity of 7 feet, but units can be customized for almost any height glass depending upon product/production requirements and is continuous. Flexible wing dimensions available for additional glass staging capacity.

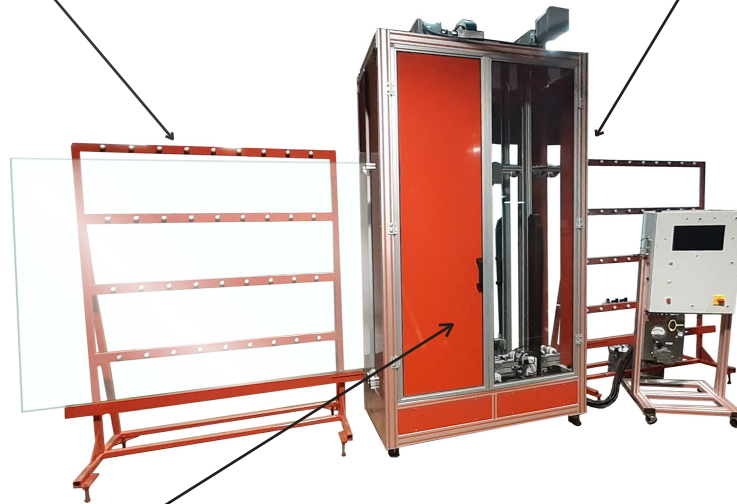
Warranty

24/7 full remote, diagnostics service. Coverage within a period (either the earlier) of 2,000 hours of usage or twelve months from the date of machine delivery. The warranty covers all non-consumable parts to include – blower unit, circulation fans, drive motors, power supplies, electronic drive controllers/amplifiers, motion bridge, infrared red and ultraviolet lighting units. Consumable or expendable parts from normal wear and tear is not covered within this warranty period. The Microburst was designed for regular use cycles, 8 hours a day, 5 days a week.

Design & Operational Benefits

The glass sheets are guided by a V groove and urethane guide roller and rail mounting. Wheel design accepts a range of glass thicknesses requiring no operator adjustment or setup. The upper rail system is CNC software controlled to accommodate the required glass height. The top rollers guide and supports the glass sheet in a vertical position. The lower rollers are servo motor powered to provide a constant speed feed rate. Urethane V groove wheels provide a non-scratch surface coupled with excellent wear characteristics.

Dual spray heads are integrated within a CNC motion system to provide a precise and uniform spray pattern. Motion control sensors enables the operator to fine tune both the application speed and desired overlap pattern. Operator can override the application speed to increased or decreased speed which is ideal for testing specialty applications. Tow head spray design enhances reliability and significantly lowers spray head maintenance as compared to a stationary volume spray head configured machine.



The curing process of the PRO 15 coating is fast paced by means of both (IR) Infrared heating and (UV) Ultraviolet light bonding technology for both sides of the glass. Glass sheets can be offloaded upon auto feed exit from the machine. To lower operating and maintenance cost the IR and UV elements are activated based on actual glass height curing needs. Circulation inlet fans provide ambient convection cooling of the glass coupled with an exhaust duct fan to remove any residual fumes from the process chamber. The exhaust fumes exit the top of the machine with the ability to connect and route a 4" duct hose exiting through the ceiling at operator's option.

The operator console is a standalone enclosure separate from the coating machine structure. This console houses the operator controls and all motion and electrical components. By design, this separation isolates the electronics from dirt, debris, or fume exposure. The console layout provides the operator quick and easy access for troubleshooting events. The cabinet is cooled by a filter inlet circulation fan yielding a positive pressure cabinet; this protects the components from contamination due to any particulates or fumes entering the cabinet.