

UNELKO Microburst brings major improvements for glass coating



The company believes it is the best product of its kind in the industry

Unelko Corporation, a Phoenix, Arizona (USA) based manufacturer of speciality cleaners and protective coatings for more than 40 years, is quite proud of the new Invisible Shield® Microburst™ (Two-Sided) Vertical Glass Coating Machine, which is so far unmatched from an operational, performance and safety standpoint. Used with the advanced Invisible Shield PRO 15 Glass Coating it is being called the most effective solution to prevent scratching, pitting, staining and other environmental corrosion and damage to glass for easier cleaning, long-term preservation and improved appearance.

The machine was designed for all sizes of glass fabricators and manufacturers who are looking for high output, space saving and energy efficient automated systems to protect volume glass including shower glass, windows, façades, IG units, doors, partitions, railings, skylights, sand blasted/etched glass, art glass, windshields and much more.

Its many features include:

- A space saving and fully automated coating system
- Built-in safety features, fully vented-contained unit emits zero fumes

- Treats one or both sides simultaneously
- Height capacity can be customized for any height and/or width of glass
- Adjustable feed rate with durable UV & IR curing
- Separate touch screen control with remote access
- Glass is clean, sealed and protected due to quick “rinse/dry” feature
- Made of “corrosion free” aluminium
- Fitted with automatic “self-cleaning” spray feature
- WIFI diagnostics for remote, on-site support & service

STATE OF THE ART PROTECTIVE COATING EQUIPMENT

Designed by Unelko and Perfect Score Technologies, a well-known glass equipment manufacturer in Dallas, Texas (USA), the compact, high output, two-sided vertical coating machine is extremely efficient. It can treat and protect more than 800,000 square metres of glass annually at a rate of 390 square meters per hour.

Glass is guided into the cabin for coating with a V groove and urethane guide roller and mount railing. The design allows for

working on a multitude of glass thicknesses without adjustments or setup by the operator, and the delivery system can feed sheets without scratching the surface. The upper rail system is CNC software controlled to accommodate for a variety of glass heights. Built-in sensors automatically detect and treat only the glass in the cabin, eliminating any waste. Treated glass sheets can be offloaded with an auto-exit feed, further reducing operator interaction.

Dual spray heads mounted within a CNC motion system provide a uniform and

precise spray pattern, while ultraviolet (UV) and infrared (IR) curing can rapidly bond Unelko's top rated Invisible Shield PRO 15 coating to both sides of almost any size commercial glass. To lower operation and maintenance costs, the IR and UV lamps are activated based on the actual glass height curing needs. Motion control sensors enable fine tuning for both the speed of the coating's application and overlap pattern, and the operator can override speed settings to test speciality applications. The use of dual spray heads also enhance reliability of



the machine and lowers maintenance when compared to a stationary spray head configuration.

DURABLE PROTECTION WITH UV AND IR CURING

Once fully cured and bonded, Invisible Shield PRO 15's high performance, hydrophobic and oleophobic coating leaves the glass durably protected, increasing scratch resistance up to 93 percent compared to untreated glass. Treated glass exits the cabin 99 percent clean and ready to install thanks to a unique power rinse and drying feature.

Invisible Shield PRO 15 is the most effective, low-cost solution to the problem of glass degradation, able to prevent scratching, pitting, staining and other environmental corrosion and damage while offering improved long-term preservation of residential and commercial glass. The coating also helps reduce cleaning time up to 75 percent annually and improves the overall appearance up to 99 percent.

UNPARALLELED SAFETY FEATURES

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

electrical boxes. Circulation inlet fans provide ambient convection cooling coupled with an exhaust duct fan to remove residual fumes from the chamber. Fumes exit the top of the chamber, and the company offers an optional duct hose to exit through the building ceiling as an option for the operator.

Additionally, the operator console is a stand-alone enclosure separate from the coating machine, a design that isolates the interior electronics from dirt, debris or fume exposure. All electronic components are explosion proof and come with a built-in safety system.

CUSTOMIZATION OPTIONS

The system has a default height capacity over 2 metres, but units can be customized for almost any glass height depending on product and production requirements. Flexible wing dimensions are available for added glass staging capacity.

WARRANTY

Perfect Score Technologies offers 24/7 full remote, diagnostics service and coverage within a period of either 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. With this feature-packed machine and a broad spectrum of protective product offerings, Unelko Corporation seems well positioned to serve the needs of glass makers all over the

world, leaving the company's future wide open for even more innovation in the field of glass coating and protection.

Unelko Corporation



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